

UR-585

UR-585

AEC RESEARCH AND
DEVELOPMENT REPORT

718486

INDEX OF REPORTS AND PUBLICATIONS
BY THE UNIVERSITY OF ROCHESTER ATOMIC ENERGY PROJECT

REPOSITORY *Univ. of Rochester,
E. G. Miner Library, etc.*
COLLECTION *Atomic Energy Proj. Reports*
BOX No. _____
FOLDER _____



THE UNIVERSITY OF ROCHESTER
ATOMIC ENERGY PROJECT
ROCHESTER, NEW YORK

1131132

11R 00001

LEGAL NOTICE

This report was prepared as an account of Government sponsored work. Neither the United States, nor the Commission, nor any person acting on behalf of the Commission:

A. Makes any warranty or representation, expressed or implied, with respect to the accuracy, completeness, or usefulness of the information contained in this report, or that the use of any information, apparatus, method, or process disclosed in this report may not infringe privately owned rights; or

B. Assumes any liabilities with respect to the use of, or for damages resulting from the use of any information, apparatus, method, or process disclosed in this report.

As used in the above, "person acting on behalf of the Commission" includes any employee or contractor of the Commission, or employee of such contractor, to the extent that such employee or contractor of the Commission, or employee of such contractor prepares, disseminates, or provides access to, any information pursuant to his employment or contract with the Commission, or his employment with such contractor.

U N C L A S S I F I E D

UR-585

Biology and Medicine
TID-4500, (15th Ed.)

THE UNIVERSITY OF ROCHESTER
Atomic Energy Project
P. O. Box 287, Station 3
Rochester 20, New York

* * *

Contract W-7401-eng-49 between the U. S. Atomic
Energy Commission and the University of Rochester,
administered by the Department of Radiation Biology
of the School of Medicine and Dentistry.

INDEX OF REPORTS AND PUBLICATIONS

BY THE UNIVERSITY OF ROCHESTER ATOMIC ENERGY PROJECT

Submitted by: Henry A. Blair
Director

Date of Report: 7/1/60
Date of Issue: 3/1/61

U N C L A S S I F I E D

1131134

UR 00003

TABLE OF CONTENTS

INTRODUCTION	4
PREVIOUS BIBLIOGRAPHIES	6
AEROSOLS AND DUSTS	7
AUTORADIOGRAPHY.	11
BIOCHEMISTRY	13
CANCER	38
CELL PHYSIOLOGY.	44
CHEMISTRY, ANALYTICAL.	52
CHEMISTRY OF BONE.	63
See also ELECTRON MICROSCOPY	
CHEMISTRY - MISCELLANEOUS SUBJECTS	73
EDUCATIONAL PROGRAM.	76
ELECTRON MICROSCOPY.	78
EXTERNAL RADIATION - BIOLOGICAL EFFECTS.	82
See also HEMATOLOGY	
EXTERNAL RADIATION - PROTECTIVE AND THERAPEUTIC MEASURES	104
FLASH BURNS.	109
HEMATOLOGY	117
INDUSTRIAL HYGIENE - INSTRUMENTS AND METHODS	126
QUARTERLY TECHNICAL REPORTS.	130
RADIATION INSTRUMENTS AND DOSIMETRY.	132
RADIOACTIVITY, MEASUREMENTS OF	137
RESPIRATORS, TESTS OF.	139
TOXICITY OF BERYLLIUM	142

TABLE OF CONTENTS

TOXICITY OF FLUORINE AND FLUORIDES	153
TOXICITY OF MISCELLANEOUS SUBSTANCES	163
TOXICITY OF PLUTONIUM.	171
TOXICITY OF POLONIUM	172
TOXICITY OF RADIUM AND RADON	180
TOXICITY OF THORIUM.	184
TOXICITY OF URANIUM.	186
TOXICITY OF ZIRCONIUM.	203
MISCELLANEOUS SUBJECTS, REPORTS ON	204
BOOKS.	218
NATIONAL NUCLEAR ENERGY SERIES VOLUMES	226
THESES SUBMITTED BY GRADUATE STUDENTS	232
AUTHOR INDEX	242

INDEX OF REPORTS AND PUBLICATIONSBY THE UNIVERSITY OF ROCHESTER ATOMIC ENERGY PROJECT

This index is designed to cover the declassified and unclassified work of the University of Rochester Atomic Energy Project from its beginning in 1943 until July 1960. It contains titles of the work described in Manhattan District and Atomic Energy Commission reports as well as of material published in books and journals.

The Atomic Energy Project was administered by the Department of Radiology of the School of Medicine and Dentistry from 1943 to 1947 and by the Department of Radiation Biology since that time. Papers on non-Project work of the Department of Radiology are not listed here but most of those from the Department of Radiation Biology from 1948 to 1955 and all of those from 1955 on are included. Therefore, although the listing covers all of the project work of a given author, it does not necessarily include all of his work during the period he was associated with this school.

When the same work is described in both internal reports and the open literature this is indicated by cross references. Sometimes the reports contain data in more detail than do the published papers. Monthly Progress Reports which were issued from June 1943 until June 1947 are omitted from this listing but were given in a previous bibliography, UR-212, December 1952. Quarterly Progress Reports are listed and their contents appear under appropriate titles.

The titles are grouped under broad subject headings only. Consequently, a topic of limited scope may fall under more than one

heading. The most common cases in which this may occur are indicated in the Table of Contents.

The author index refers to page number rather than title. Therefore, a given author reference may cover more than one title.

PREVIOUS BIBLIOGRAPHIES OF REPORTS AND PUBLICATIONS ISSUED BY THEUNIVERSITY OF ROCHESTER ATOMIC ENERGY PROJECT

M-1655	Dowdy, A. H.	Catalogue of reports issued by Rochester Area for period May 1, 1943 thru April 1, 1945.	
UR-212	Jones, E. B.	Index of reports and publications by the University of Rochester Atomic Energy Project. (<u>Science 116: 706-8, 1952</u>) (<u>Nuclear Sci. Abstr. 7: 271, 1953</u>)	12/ 8/52
UR-423	Blair, H. A.	Index of reports and publications by the University of Rochester Atomic Energy Project. (<u>Nuclear Sci. Abstr. 10: 387, 1956</u>)	7/31/55

AEROSOLS AND DUSTS

M-1541	Gilda, J.E.	X-ray diffraction studies of uranium metal fume.	6/ 7/44
M-1553	Dygert, H.P. Oberg, H. Stokinger, H.E.	Comparison of relative efficiencies of filter papers in sampling uranium dusts.	5/20/44
M-1582	Dygert, H.P. Sanford, R. Oberg, H.	Relative efficiencies of dust sampling devices as applied to collection of uranium dusts.	11/22/44
M-1997 Paper 1 MDDC-1355	Laskin, S. Turner, R.A.N. Stokinger, H.E.	Analysis of dust and fume hazards in a beryllium plant.	9/ 1/47
UR-40 AECD-2244	Lauterbach, K. Laskin, S. Leach, L.	Determination of the surface area of uranium compounds of different particle sizes by low temperature Van Der Waals Adsorption of ethane. (NNES Div. VI, Vol. 1, Chap. 21A, Sec. 2.2) (<u>J. Franklin Inst.</u> 250: 13-24, 1950)	8/ 9/48
UR-45 p.45	Laskin, S. Wilson, H.B.	Sampling and measurement of aerosols: UO ₃ particle size studies.	10/15/48
UR-87 p.18-24	LaBelle, C.W.	Biological effects of pile dust.	7/30/49
UR-103 p.64-66	Lauterbach, K. Mitchell, J. Laskin, S.	Particle-size and specific-surface measurements for bulk zirconium compounds.	1/31/50
UR-116 p.37-49	Laskin, S. Leach, L. Wilson, R.H.	Experimental production and studies of uranium dioxide fumes.	4/27/50
UR-142 p.41-51	LaBelle, C.W. Stokinger, H.E. Dohl, J.M.	Organ weights and the calculation of transport of insoluble particles from the lung.	11/ 1/50
UR-142 p.76-78	Wilson, H.B. Sylvester, G.	The relation of optical density to quantity of UO ₂ deposited on filter paper.	11/ 1/50

AEROSOLS AND DUSTS

UR-164 p.41-54	Stokinger, H.E. Steadman, L.T. Wilson, H.B. Sylvester, G.E. Dziuba, S. LaBelle, C.W.	Lobar deposition and retention of inhaled insoluble particulates. (<u>Arch. Ind. Hyg. Occupational Med. 4: 346-53, 1951</u>)	5/ 9/51
UR-174 p.104-16	Leach, L.J. Laskin, S. Lauterbach, K.E.	Experimental production and studies of a beryllium oxide fume.	7/31/51
UR-300	Hilcken, J.	Tyndallometric estimation of polydisperse aerosol deposition in man. (Thesis)	2/12/54
UR-307	Morken, D.A.	A radon exposure unit for small animals.	1/13/55
UR-308	Morrow, P.E. Casarett, L.J.	An experimental approach to the study of the respiratory deposition and retention of certain alpha emitters.	3/18/55
UR-377	Lauterbach, K.E. Hayes, A.D. Coelho, M.A.	An improved aerosol generator. (<u>A.M.A. Arch. Ind. Health 13: 156-60, 1956</u>)	7/12/55
UR-415	Morken, D.A. Morrow, P.E.	The control and measuring systems of an apparatus for the study of respiratory tract retention.	1/11/56
UR-461	Shapiro, J.	Studies on the radioactive aerosol produced by radon in air.	9/11/56
UR-474	Mercer, T.T.	A study of some physical properties of an aerosol in relation to airborne decay products of radon. (Thesis)	3/29/57
UR-475	Mercer, T.T.	Charging and precipitation characteristics of sub-micron particles in the Rohmann electrostatic particle separator.	2/14/57

AEROSOLS AND DUSTS

UR-504	Morrow, P.E. Mehrhof, E. Casarett, L.J. Morken, D.A.	A study of the deposition of a submicronic aerosol in human subjects. (Abstract. <u>Am. J. Physiol.</u> 187: 618, 1956)	11/ 7/57
UR-505	Dautrebande, L. Lauterbach, K.E. Hayes, A.D. Morrow, P.E.	Agglutination of submicronic dust particles with a sodium chloride aerosol. A technical study.	10/25/57
UR-530	Dautrebande, L.	Studies on aerosols.	10/ 1/58
UR-560	Gibb, F.R. Morrow, P.E. Dautrebande, L.	Deposition of a radioactive aerosol in excised guinea pig lungs.	11/ 9/59
	Stokinger, H.E.	Air pollution and the particle size-toxicity problem. I. (<u>Nucleonics</u> 5: 50-62, 1949)	
	Stokinger, H.E. Laskin, S.	Air pollution and the particle size-toxicity problem. II. (<u>Nucleonics</u> 6: 15-31, 1950)	
	Morrow, P.E. Mehrhof, E. Casarett, L.J. Morken, D.A.	An experimental study of aerosol deposition in human subjects. (<u>A.M.A. Arch. Ind. Health</u> 18: 292-8, 1958) (See also UR-504)	
	Casarett, L.J.	Some physical and physiological factors controlling the fate of inhaled substances. II. Retention. (<u>Health Physics</u> 2: 379-86, 1960)	
	Morrow, P.E.	Some physical and physiological factors controlling the fate of inhaled substances. I. Deposition. (<u>Health Physics</u> 2: 366-78, 1960)	
	Potter, J.P.	Particulate studies of the BNL pile cooling air effluent. (Work performed at Brookhaven National Laboratory.) (Thesis)	1960

AEROSOLS AND DUSTS

AECU-860

Laskin, S.
Frank, P.B.
Wilson, R.H.

Efficiency of filtration
methods for the collection
of atmospheric impurities.
(Nuclear Sci. Abstr. 4:
784, 1950)

4/25/50

1131143

AUTORADIOGRAPHY

M-2002 p.29-30	Boyd, G.A.	The development of radio- autographic technique as a tool for the study of the cellular distribution of polonium.	11/15/47
M-2015 AECD-1916	Neuman, W.F. Neuman, M.W.	The deposition of uranium in bone. II. Radioautographic studies. (NNES Div. VI, Vol. 1., Chap. 24, Sec. 2) (<u>J. Biol. Chem. 175: 711-4,</u> 1948)	2/ 9/48
UR-29 AECD-2066	Boyd, G.A. Williams, A.I.	Stripping film techniques for histological autoradiographs. (<u>Proc. Soc. Exptl. Biol. Med.</u> <u>69: 225-32, 1948</u>)	5/20/48
UR-33 AECD-2106	Boyd, G.A.	A comparison study of NTB and medium lantern slide emulsions for autoradiographs.	5/25/48
UR-45 p.98-102 AECD-2277	Boyd, G.A. Casarett, G. Altman, K.I. Noonan, T.R. Salomon, K.	Autoradiographs of C ¹⁴ in- corporated in individual blood cells. (<u>Science 108:</u> <u>529-31, 1948</u>)	10/15/48
UR-45 p.103-7	Boyd, G.A. Casarett, G.W. Williams, A.I.	Technique for making auto- radiographs of individual blood cells. (<u>Stain Technol.</u> <u>25: 13-16, 1950</u>)	10/15/48
UR-87 p.83-91	Boyd, G.A.	Autoradiographic determination of alpha-emitting contamination of beryllium.	7/30/49
UR-91 AECU-616	Boyd, G.A. Levi, H.	Beta track autoradiography using C ¹⁴ . (<u>Science 111:</u> <u>58-59, 1950</u>)	9/26/49
UR-124	Boyd, G.A.	Microscopic autoradiography as a tool in cancer research. (<u>Texas Repts. Biol. and Med. 8:</u> <u>no. 4, 1950</u>)	7/24/50

AUTORADIOGRAPHY

- | | | | |
|-----------|---|--|---------|
| | Gallimore, J.C.
Boyd, G. A.
Stannard, J. N. | An autoradiographic study of the distribution of polonium in the rat during 24 hours after intravenous injection. (<u>Anat. Record 118: 253-74, 1954.</u>) | |
| MDDC-1226 | Boyd, G. A. | The physical principles and techniques of autoradiographs. (<u>J. Biol. Phot. Assoc. 16: 65-77, 1947</u>) | 7/28/47 |

BIOCHEMISTRY

M-1891	Wills, J.H. Main, E. R.	A preliminary investigation of the effect of uranyl acetate upon the removal of xylose from the blood plasma of the rabbit.	3/16/46
M-2012 p.42-43	Hursh, J.B. Bennett, L.R.	Iodination of protein.	1/15/48
UR-20 AECD-2017	Mann, W. Gruschow, J.	Synthesis of nucleic acid in surviving normal and cancer tissue slices studies with radiophosphorus. (<u>Proc. Soc. Exptl. Biol. Med.</u> 71: 658-60, 1949)	4/12/48
UR-21 p.18-22	Salomon, K.	Hemin synthesis <u>in vivo</u> with glycine containing C^{14} in the alpha carbon atom.	4/23/48
UR-21 p.23-26	Salomon, K.	Hemin synthesis <u>in vitro</u> with glycine containing C^{14} in its alpha carbon atom.	4/23/48
UR-38 p.18-24	Salomon, K. Altman, K.I.	Some aspects of glycine metabolism. I. Experiments with bone marrow <u>in vitro</u> . (Studies on porphyrin and fatty acid metabolism). II. Experiments with spleen homogenates <u>in vitro</u> .	7/15/48
UR-38 p.77-96	Miller, L.L. Bale, W.F.	Studies of protein metabolism in the dog using C^{14} labeled DL-lysine. I. The distribution of C^{14} activity 24 hours after ingestion of C^{14} labeled DL-lysine. II. The fate of C^{14} labeled plasma proteins when injected intravenously into a normal dog. III. The fate of C^{14} labeled plasma proteins when injected into the peritoneal cavity of the experimentally ascitic dog. IV. The intermediary metabolism of lysine.	7/15/48

BIOCHEMISTRY

UR-45 p.91-94	Miller, L.L. Bale, W.F.	Studies in protein metabolism in the dog using C^{14} -labeled DL-lysine. I. The <u>in vivo</u> conversion of lysine to glutamic and aspartic acids.	10/15/48
p.95-98	Miller, L.L.	II. The conversion of lysine to arginine.	
UR-45 p.107	Neuman, W.F. O'Leary, J.F.	Partition-chromatography of lipids.	10/15/48
UR-52 AECU-77	Altman, K.I. Casarett, G. Noonan, T.R. Salomon, K.	The distribution in rat tissues of the methylene carbon atom of glycine labeled with C^{14} . (<u>Arch. Biochem.</u> 23: 131-6, 1949)	12/20/48
UR-71 AECU-344	Tishkoff, G.H. Bennett, R. Bennett, V. Miller, L.L.	The use of radioiodine and paper chromatography technique in the study of thyroid metabolism. (<u>Science</u> 110: 452-4, 1949)	5/10/49
UR-78 AECU-422	Altman, K.I. Salomon, K.	Hemin synthesis in spleen homogenates. (<u>Science</u> 111: 117-8, 1950)	6/ 3/49
UR-87 p.53-74 AECU-490	Miller, L.L. Bale, W.F. Yuile, C.L. Masters, R.E. Tishkoff, G.H. Whipple, G.H.	Studies in protein metabolism in the dog using C^{14} -labeled DL-lysine. I. Synthesis and utilization of plasma proteins. (<u>J. Exptl. Med.</u> 90: 297-313, 1949)	7/30/49
UR-87 p.74-82 AECU-489	Bale, W.F. Yuile, C.L. DeLaVergne, L. Miller, L.L. Whipple, G.H.	Studies in protein metabolism in the dog using C^{14} -labeled DL-lysine. II. Hemoglobin labeled by radioactive lysine-erythrocyte life cycle. (<u>J. Exptl. Med.</u> 90: 315-20, 1949)	7/30/49
UR-96 p.21-29	Salomon, K.	Some aspects of glycine metabolism in bone marrow homogenates.	11/3/49

BIOCHEMISTRY

- | | | | |
|-------------------|--|--|----------|
| UR-96
p.86-94 | Miller, L.L.
Bale, W.F.
Bly, C.G.
Watson, M. | Studies in protein metabolism using C^{14} -labeled DL-lysine. Direct evidence of the role of the liver in plasma protein synthesis. | 11/ 3/49 |
| UR-97 | Clark, R.T., Jr.
Stannard, J.N.
Fenn, W.O. | The oxidation of carbon monoxide to carbon dioxide as shown by experiments with C^{14} .
I. The oxidation of carbon monoxide by isolated tissues.
II. Evidence for the conversion of carbon monoxide to carbon dioxide by the intact animal. (<u>Am. J. Physiol.</u> 161: 40-46, 1950; 162: 560-4, 1950) (Science 109: Part II, 615-6, 1949) (<u>Federation Proc.</u> 8: 26, 1949) | 10/27/49 |
| UR-100 | O'Leary, J.
Neuman, W.F. | Experiments with paper chromatography of the animal phospholipids. | 12/ 9/49 |
| UR-103
p.14-20 | Salomon, K.
Altman, K.I.
DellaRosa, R.
Sanfilippo, S.J. | Studies on the biosynthesis of chlorophyll. | 1/31/50 |
| UR-116
p.14-22 | Gabrio, B.W.
Salomon, K. | The distribution of total ferritin in the intestine and mesenteric lymph nodes of horses after iron feeding. (<u>Proc. Soc. Exptl. Biol. Med.</u> 75: 124-7, 1950) | 4/27/50 |
| UR-127
p.23-27 | Gabrio, B.W.
Tishkoff, G.H. | A paper chromatographic study of ferritin and apoferritin hydrolysates. (<u>Science</u> 112: 358-9, 1950) | 8/ 1/50 |
| UR-134* | Richmond, J.E.
Altman, K.I.
Salomon, K. | The relation of oxygen uptake to hemoglobin synthesis. (<u>Science</u> 113: 404-5, 1951) | 9/15/50 |

*Journal publication only

BIOCHEMISTRY

- | | | | |
|-------------------|---|---|----------|
| UR-142
p.13-15 | Altman, K.I.
Miller, L.L.
Richmond, J.E. | The role of the carbon skeleton of lysine in the biosynthesis of hemoglobin. (Arch. Biochem. 29: 447-8, 1950) (Arch. Biochem. 36: 399-410, 1952) | 11/ 1/50 |
| UR-142
p.29-40 | Gosselin, R.E.
Rothstein, A.
Berke, H.L.
Miller, G.J.
Meier, R.C. | The metabolism of poly-phosphates in reference to the treatment of metal poisoning. (Am. J. Physiol. 163: 715, 1950) (J. Pharmacol. Exptl. Therap. 101: 14, 1951) | 11/ 1/50 |
| UR-142
p.79-95 | Miller, L.L.
Bly, C.G.
Bale, W.F. | Studies in protein metabolism with a C ¹⁴ -labeled DL-lysine. | 11/ 1/50 |
| UR-144 | Altman, K.I.
Miller, L.L.
Bly, C.G. | The synergistic effect of cortisone and insulin on lipogenesis in the perfused rat liver as studied with α -C ¹⁴ acetate. (Arch. Biochem. Biophys. 31: 329-31, 1951) | 11/29/50 |
| UR-149* | Neuman, W.F.
DiStefano, V.
Mulryan, B.J. | Some observations on the role of phosphatase. (Nuclear Sci. Abstr. 5: 604, 1951) | 1/15/51 |
| UR-151* | Stokinger, H.E.
Altman, K.I.
Salomon, K. | The effect of various pathological-conditions on in-vivo hemoglobin synthesis. I. Hemoglobin synthesis in beryllium-induced anemia as studied with C ¹⁴ acetate. (Nuclear Sci. Abstr. 5: 778, 1951) (Biochim. et Biophys. Acta 12: 439-44, 1953) | 1/19/51 |
| UR-164
p.64-72 | Stokinger, H.E.
Altman, K.I.
Salomon, K. | Hemin and globin synthesis in beryllium-induced anemia studied with alpha C ¹⁴ -acetate. | 5/ 9/51 |

*Journal publication only

BIOCHEMISTRY

- | | | | |
|-------------------|---|--|----------|
| UR-164
p.78-86 | Miller, L.L.
Bly, C.G. | The relation between liver cell proteins and plasma proteins studied with the aid of lysine- ϵ - C^{14} . | 5/ 9/51 |
| UR-164
p.87-89 | Miller, L.L.
Rothstein, M. | The intermediary metabolism of DL-lysine- ϵ - C^{14} ; the conversion of lysine to glucose and ketone bodies in the phloridzinized rat. | 5/ 9/51 |
| UR-189
p.33-38 | Richmond, J.E.
Altman, K.I. | The ozonolysis of substituted maleic acid imides and their use in the degradation of porphyrins. (<u>XII Intern. Congr. Pure Applied Chem., Abstracts of Papers, p.70, 1951</u>) | 10/25/51 |
| UR-200
p.27-35 | Miller, L.L. | Experimental cirrhosis and its effects on amino acid metabolism and plasma protein production as studied with the aid of lysine- ϵ - C^{14} . | 2/11/52 |
| UR-203 | Toporek, M. | L-histidine-2- C^{14} , its synthesis and some aspects of its metabolism in rats. (Thesis) | 6/11/52 |
| UR-205
p.11-17 | Mason, W.B.
Coco, S.
Knight, K. | Studies on the quantitative separation of protein bound iodine from iodide. | 5/14/52 |
| UR-208 | Salomon, K.
Richmond, J.E.
Altman, K.I. | Tetrapyrrol precursors of protoporphyrin IX. I. Uroporphyrin III. (<u>J. Biol. Chem. 196: 463-8, 1952</u>) | 5/19/52 |
| UR-213
p.7-11 | Feldman, I.
Havill, J.R. | Concerning the presence of citrate in commercial crystallized bovine serum albumin. (<u>Science 116: 691-2, 1952</u>) | 7/31/52 |
| UR-213
p.38-46 | Miller, L.L. | Preparative electrophoretic studies of plasma protein synthesis by the isolated perfused liver and the eviscerated rat using DL-lysine- ϵ - C^{14} . | 7/31/52 |

BIOCHEMISTRY

- UR-213 Rothstein, M. Metabolism of 1,5-C¹⁴-glutaric 7/31/52
p.58 acid. (Federation Proc. 11:
278, 1952)
- UR-213 Salomon, K. Role of uroporphyrin III as a 7/31/52
p.59 Richmond, J.E. precursor of protoporphyrin IX.
Altman, K. (Federation Proc. 11: 280, 1952)
- UR-213 Miller, L.L. Factors affecting biosynthesis 7/31/52
p.60 Bale, W.F. of plasma albumin and globulin
fractions as studied with the
aid of lysine-C¹⁴ and
histidine-2-C¹⁴. (Federation
Proc. 11: 260, 1952)
- UR-213 Axelrod, L.R. Paper partition chromatography 7/31/52
p.61 of progesterone and related
compounds. (Federation Proc.
11: 182-3, 1952)
- UR-213 Toporek, M. L-histidine-2-C¹⁴, a source of 7/31/52
p.62 labile methyl groups with
transmethylation enhanced by
choline deficiency. (Federation
Proc. 11: 299, 1952)
- UR-213 Altman, K.I. A comparison of rates of 7/31/52
p.63 Noonan, T.R. incorporation of iron and of
Spraragen, S. the α -carbon atom of glycine
Salomon, K. into hemoglobin. (Federation
Proc. 11: 4-5, 1952)
- UR-213 Rouser, G. Identification of phosphate 7/31/52
p.68 Neuman, W.F. esters in tissues by paper
chromatography. (Federation
Proc. 11: 278, 1952)
- UR-216 Frankel, D.R. The relation of protein synthe- 9/10/52
sis to nucleic acid phosphorus
turnover in the rat liver.
(Thesis)
- UR-223 Rothstein, M. The metabolism of glutaric 10/22/52
Miller, L.L. acid-1,5-C¹⁴: I. In normal
and phlorizinized rats. (J.
Biol. Chem. 199: 199-205,
1952)

BIOCHEMISTRY

- UR-248 Rothstein, M. A new synthesis of LD-lysine 4/ 3/53
Claus, C.J. -6-C¹⁴ and DL-r-aminoadysic
acid-6-C¹⁴. (J. Am. Chem. Soc.
75: 2981-2, 1953)
- UR-259 Bly, C.G. Production of plasma and tissue 5/26/53
Miller, L.L. proteins by non-hepatic rat
Bale, W. F. organs as studied with lysine-
6-C¹⁴. (J. Exptl. Med. 99:
133-53, 1954)
- UR-260 Miller, L.L. A simple procedure for the 5/29/53
p.63-65 Rothstein, M. detection and isolation of
intermediary metabolites from
radioactive precursors.
- UR-268 Axelrod, L.R. Metabolism of adrenal cortical 9/ 2/53
p.19 Miller, L.L. hormones in the isolated
perfused rat liver. (Abstract.
37th Annual Fed. Meet., Chicago,
Apr. 6-10, 1953)
- UR-268 Rothstein, M. Intermediary metabolism of 9/ 2/53
p.21 DL-lysine-6-C¹⁴. (Abstract.
37th Annual Fed. Meet.,
Chicago, Apr. 6-10, 1953)
- UR-275 Neuman, W.F. Evidence for complex-ion 9/ 8/53
Hodge, H.C. formation in calcium bicarbonate
Morrow, P.E. system. (Nuclear Sci. Abstr. 8:
Toribara, T.Y. 54, 1954) (J. Biol. Chem. 219:
Mulryan, B.J. 551-5, 1956)
Casarett, L.J.
- UR-281 Megirian, R. The metabolic fate of 9/17/53
synthetic metaphosphates and
their influence on human
excretion. (Thesis)
- UR-289 Rothstein, M. The metabolism of L-lysine-6- 10/29/53
Miller, L. L. C¹⁴. (J. Biol. Chem. 206:
243-53, 1955)

BIOCHEMISTRY

- UR-348 Richmond, J.E. Biosynthesis of hemin in 8/26/54
p.30 Salomon, K. soy-bean root nodules.
(Federation Proc. 13: 280,
1954)
- UR-348 Rothstein, M. The metabolism of \int -amino- 8/26/54
p. 38 Miller, L.L. valeric acid - \int -C¹⁴.
- UR-360* Chen, P.S., Jr. Renal excretion of calcium
Neuman, W.F. by the dog. (Am. J. Physiol.
180: 623-31, 1955)
- UR-361* Chen, P.S. Renal reabsorption of calcium
Neuman, W.F. through its inhibition by
various chemical agents. (Am.
J. Physiol. 180: 632-6, 1955)
- UR-368* Neufeld, H.A. The effects of 2,2-diethyl
Greenberg, L.J. 1,3-propanediol and 2,3-diethyl
Slater, I.H. 1,4-butanediol on the
succinoxidase system. (J. Pharmacol.
Exptl. Therap. 113: 292-8, 1955)
- UR-383* Gosselin, R.E. The influence of chain length
Megirian, R. on the metabolic fate of
condensed phosphates. (J.
Pharmacol. Exptl. Therap. 115:
402-7, 1955)
- UR-405* Miller, L.L. Biochemical changes of experi-
UN-219 Burke, W.T. mental precancer. Amino acid
metabolism in the isolated per-
fused rat liver studied with
the aid of Lysine-6-C¹⁴ and histi-
dine-2-C¹⁴. (1st Intern. Conf. on
the Peaceful Uses of Atomic Energy,
Vol. 10, 492-5, 1956)
- UR-406* Miller, L.L. Interrelations in amino acid and
Burke, W.T. carbohydrate metabolism. Studies
Haft, D.E. of the nitrogen sparing action of
carbohydrate with the isolated
perfused rat liver. (Federation
Proc. 14: 707-16, 1955)

*Journal publication only

BIOCHEMISTRY

- UR-491 Emery, A.J., Jr. Pathways and rate of hemo- 7/30/57
Bales, H.W. globin catabolism during
experimental hemoglobinemia
in swine.
- UR-550 Brayer, F.T. Adrenal antibodies and 5/19/59
Casarett, A.P. corticosterone secretion
Spar, I.L. in the rat.
- UR-564 Izzo, J.L. Comparative effects of 1/20/60
Glasser, S.R. glucagon, hydrocortisone
Crump, S.L. and epinephrine on the
protein metabolism of the
fasting rat.
- Smith, F.A. The fatty acids of menhaden
Brown, J.B. oil. I. Examination of the
C₁₂, C₁₄, C₁₆, and C₁₈,
fractions by low temperature
crystallization procedures.
(Oil & Soap 22: 277-83, 1945)
(This journal is now J. Am.
Oil Chemists Soc.)
- Smith, F.A. The fatty acids of menhaden
Brown, J.B. oil. II. The separation of
the methyl esters of menhaden
oil into saturated, monoethy-
lenic and polyethylenic fractions
by low temperature crystallization.
The composition of the saturated
and monoethylenic fractions. (Oil
& Soap 22: 321-5, 1945) (This
journal is now J. Am. Oil Chem-
ists Soc.)
- Smith, F.A. The fatty acids of menhaden oil.
Brown, J.B. III. Distribution of the
hydrogenated methyl esters and
evaluation of the carbon series.
(Oil & Soap 23: 9-10, 1946)
(This journal is now J. Am. Chem-
ists Soc.)

BIOCHEMISTRY

- Roberts, E.
Spiegl, C.J. The influence of dietary protein, methionine and cystine on accelerated vitamin C excretion in the rat. (J. Biol. Chem. 165: 727-8, 1946; 171: 9-26, 1947)
- Cantarow, A.
Wirts, C.W.
Snape, W.J.
Miller, L.L. Effect of certain choleric agents on excretion of pigment and bromsulfalein in bile. (Am. J. Physiol. 154: 506-12, 1948)
- Cantarow, A.
Wirts, C.W.
Snape, W.J.
Miller, L.L. Excretion of bilirubin and bromsulfalein in bile. (Am. J. Physiol. 154: 211-9, 1948)
- Dounce, A.L.
Rothstein, A.
Beyer, G.T.
Meier, R.
Freer, R.M. A detailed method for the preparation of highly purified adenosine triphosphate. (J. Biol. Chem. 174: 361-70, 1948)
- Mann, W.
Bale, W.F.
Hodge, H.C.
Warren, S.L. The distribution in rabbit tissues of intravenously injected iodine as shown by the radioisotope, I^{130} . (J. Pharmacol. Exptl. Therap. 95: 12-17, 1948)
- Altman, K.I.
Smull, K.
Barron, E.S.G. A new method for the preparation of uricase and the effect of uricase on the blood uric level of chickens. (Arch. Biochem. 21: 158-65, 1949)
- Noonan, T.R.
Altman, K.I.
Casarett, G.W.
Salomon, K. Incorporation of glycine in the tissues of acutely starved rat. (Federation Proc. 8: 119, 1949)
- Salomon, K.
Gabrio, B.W. Plasma calcium fractions after electric convulsion treatment. (Arch. Neurol. Psychiat. 62: 99-104, 1949)

BIOCHEMISTRY

- Benjamin, J.A.
Neuman, W.F.
Thompson, H.E.
Waterhouse, C.
- Radioactive phosphorus (P^{32}) used to study phosphate exchange between urine in the renal pelvis and renal calculi containing phosphate. (Science 111: 498-9, 1950)
- Miller, L.L.
- The loss and regeneration of rat liver enzymes related to diet protein. (J. Biol. Chem. 186: 253-60, 1950)
- Salomon, K.
Altman, K.I.
DellaRosa, R.
- Studies on the biosynthesis of chlorophyll. (Federation Proc. 9: 222, 1950)
- Segal, H.L.
Miller, L.L.
Morton, J.J.
- Determination of gastric acidity without intubation by use of cation exchange indicator compounds. (Proc. Soc. Exptl. Biol. Med. 74: 218-20, 1950)
- Segal, H.L.
Miller, L.L.
Morton, J.J.
Young, H.Y.
- The use of cation exchange indicator compounds to determine gastric acidity without intubation. (Gastroenterology 16: 380-6, 1950)
- Miller, L.L.
Bly, C.G.
Watson, M.L.
Bale, W.F.
- The dominant role of the liver in plasma protein synthesis. A direct study of the isolated perfused rat liver with the aid of lysine - C^{14} . (J. Exptl. Med. 94: 431-53, 1951)
- Yuile, C.L.
Lamson, B.G.
Miller, L.L.
Whipple, G.H.
- Conversion of plasma protein to tissue protein without evidence of protein breakdown. Results of giving plasma protein labeled with Carbon¹⁴ parenterally to dogs. (J. Exptl. Med. 93: 539-57, 1951)

BIOCHEMISTRY

- Altman, K.I.
Miller, L.L.
Richmond, J.E. The role of the carbon skeleton of lysine in the biosynthesis of hemoglobin. (Arch. Biochem. Biophys. 36: 399-410, 1952)
- Gosselin, R.E.
Rothstein, A.
Miller, G.J.
Berke, H.L. The hydrolysis and excretion of polymeric phosphate. (J. Pharmacol. Exptl. Therap. 106: 180-92, 1952)
- Morrow, P.E.
Hodge, H.C.
Neuman, W.F.
Maynard, E.A.
Blanchet, H.J., Jr.
Fassett, D.W.
Birk, R.E.
Manrodt, S. The gastrointestinal non-absorption of sodium cellulose sulfate labeled with S^{35} . (J. Pharmacol. Exptl. Therap. 105: 273, 1952)
- Richmond, J.E.
Altman, K.I. The ozonolysis of substituted maleic acid imides and its application to the degradation of porphyrins. (J. Am. Chem. Soc. 74: 4368-70, 1952)
- Toporek, M.
Miller, L.L.
Bale, W.F. Carbon atom 2 of L-histidine-2- C^{14} , a source of the carbon of labile methyl groups in liver. (J. Biol. Chem. 198: 839-51, 1952)
- Axelrod, L.E. Absorption spectra of fuming sulfuric acid chromogens obtained from the estrogens and other steroid compounds. (J. Am. Cancer Soc. 75: 6301, 1953)
- DellaRosa, R.
Altman, K.I.
Salomon, K. The biosynthesis of chlorophyll as studied with labeled glycine and acetic acid. (J. Biol. Chem. 202: 771-9, 1953)
- Glasser, S.R. The metabolic response of adult male rats to diethylstilbestrol as related to dietary protein. (Federation Proc. 12: 162, 1953)

BIOCHEMISTRY

- Murlin, J.R.
Hayes, A.D.
Johnson, K. Correlation between the biological value of protein and the percentage of creatinine N in the urine. (J. Nutrition 51: 149-61, 1953)
- Rothstein, M.
Miller, L.L. The conversion of L-lysine-6-C¹⁴ to pipercolic acid in the rat. (J. Am. Chem. Soc. 75: 4371, 1953)
- Axelrod, L.R.
Miller, L.L. The bioxidation of steroids at carbon 6 by isolated perfused rat livers. (Arch. Biochem. Biophys. 49: 248-9, 1954)
- Estabrook, R.W.
Neufeld, H.A.
Mason, W.B. Effect of thyroidectomy and thyroxine on succinoxidase system. (Federation Proc. 13: 205, 1954)
- Haberland, G.L.
Bruns, F.
Altman, K.I. The separation and quantitative determination of ring-substitute hippuric acid derivatives. (Biochim. et Biophys. Acta 15: 578-81, 1954)
- Miller, L.L.
Bale, W.F. The metabolic conversion of the carbon chain of lysine-6-C¹⁴ to glutamic acid, aspartic acid and arginine. (Arch. Biochem. Biophys. 48: 361-9, 1954)
- Miller, L.L.
Bale, W.F. Synthesis of all plasma protein fractions except gamma globulins by the liver. (J. Exptl. Med. 99: 125-32, 1954)
- Richmond, J.E.
Salomon, K.
Caplin, S. Biosynthesis of hemin in soybean nodule homogenates. (Nature 174: 34, 1954)

BIOCHEMISTRY

- Richmond, J.E.
Altman, K.I.
Salomon, K. Further studies on the biosynthesis of hemin in bone marrow preparations. (J. Biol. Chem. 211: 981-8, 1954)
- Altman, K.I.
Bruce, A.K.
Salomon, K. On the synthesis and metabolism of C¹⁴-labeled hematoporphyrin. (Ciba Foundation Symposium on Porphyrin Biosynthesis and Metabolism 1955, pp. 86-94)
- Burke, W.T.
Miller, L.L. Amino Acid metabolism in isolated, perfused livers of normal, precancerous and cirrhotic rats. (Abstract. Federation Proc. 14: 187-8, 1955)
- Morrow, P.E.
Casarett, L.J.
Toribara, T.Y.
Neuman, W.F.
Hodge, H.C. Complex ion formation in calcium bicarbonate system. (Abstract. Federation Proc. 14: Part I, 372, 1955)
- Richmond, J.E.
Salomon, K. Studies on the biosynthesis of hemin in soy bean nodules. (Biochim. et. Biophys. Acta 17: 48-55, 1955)
- Whipple, G.H.
Robscheit-Robbins, F.S.
Bale, W.F. Red cell stroma protein rich in vitamin B₁₂ during active regeneration. Anemia studies using radioactive cobalt B₁₂ in dogs. (J. Exptl. Med. 102: 725-31, 1955)
- Burke, W.T.
Miller, L.L. Role of glutamine in urea production and protein synthesis in the livers of normal and 3' MeDAB-fed rats: (Abstract. Federation Proc. 15: 227-8, 1956)

BIOCHEMISTRY

- Ganis, F.M.
Miller, L.L. Metabolism of hydrocortisone in the isolated perfused dog kidney. (Federation Proc. 15: 516, 1956) (To be published in Arch. Biochem. Biophys.)
- Gehrmann, G.
Lauenstein, K.
Altman, K.I. Evidence for non-uniform labeling of glycine residues in rat collagen. (Arch. Biochem. Biophys. 62: 509-11, 1956)
- Hodge, H.C. Biochemistry. (J. Am. Dental Assoc. 52: 419-21, 1956)
- Lauenstein, K.
Altman, K.I. The separation and isolation of certain urinary metabolites. Guanidine derivatives and aromatic carboxylic acids. (Biochim. et Biophys. Acta 21: 587-8, 1956)
- Lauenstein, K.
Altman, K.I. Studies on the biosynthesis of neuraminic acid. (Nature 178: 917, 1956)
- Monty, K.J.
Morrison, M.
Alling, E.
Stotz, E. Electrophoresis of cationic proteins on filter paper. (J. Biol. Chem. 220: 296-302, 1956)
- Neuman, W.F.
Firschein, H.
Chen, P.S., Jr.
Mulyran, B.J.
DiStefano, V. On the mechanism of action of parathormone. (J. Am. Chem. Soc. 78: 3863, 1956)
- Burke, W.T.
Miller, L.L. Urea synthesis during azo-dye carcinogenesis as studied in the isolated perfused rat liver. (Abstract. Federation Proc. 16: 161, 1957)
- Ganis, F.M.
Kurath, P.
Radakovich, M. Incubation of cholesterol-21-C¹⁴ with bovine adrenal tissue. (Federation Proc. 16: 357, 1957)

BIOCHEMISTRY

- Green, M. Role of formate in the bio-
 Altman, K.I. synthesis of chlorophyll a.
 Richmond, J.E. (Nature 179: 375, 1957)
 Salomon, K.
- Koszalka, T.R. Purification of splenic
 Falkenheim, R. desoxyribonuclease II.
 Altman, K.I. (Biochim. et Biophys.
Acta 23: 647-8, 1957)
- Kowlessar, O.D. Occurrence of an inhibitor
 Okada, S. for deoxyribonuclease II in
 Potter, J.L. human urine. (Arch. Biochem.
 Altman, K.I. Biophys. 68: 231, 1957)
- Kurath, P. Cholesterin-24-C¹⁴. (Helv.
 Ganis, F.M. Chim. Acta 40: 933, 1957)
 Radakovich, M.
- Kurath, P. Determination of site of C¹⁴
 Ganis, F.M. in hydrocortisone-C¹⁴ derived
 Radakovich, M. from cholesterol-21-C¹⁴ incuba-
 ted with bovine adrenal gland
 tissue. (J. Am. Chem. Soc. 79:
5323, 1957)
- Smith, C.G. Effect of surface active agents
 Smith, G.A. on biosynthesis of riboflavin
 Papadopoulou, Z. in Ashbya gossypii. (Abstract.
Federation Proc. 16: 251, 1957)
- Wiberg, J.S. The binding of bivalent metals
 Neuman, W.F. by deoxyribonucleic and ribo-
 nucleic acids. (Arch. Biochem.
Biophys. 72: 66-83, 1957)
- Altman, K.I. Chemical and biological studies
 Salomon, K. on bis-(iodoethyl)-deutero-
 porphyrin. (Abstract. Federation
Proc. 17: 181, 1958)
- Altman, K.I. Some aspects of the metabolism
 Tabechian, H. of red blood cells from patients
 Young, L.E. with hemolytic anemias. (Ann.
N.Y. Acad. Sci. 75: 142-7, 1958)

BIOCHEMISTRY

- Firschein, H.
Martin, G.
Mulryan, B.J.
Strates, B.
Neuman, W.F. Concerning the mechanism of
action of parathyroid hormone.
I. Ion-gradients. (J. Am.
Chem. Soc. 80: 1619-23, 1958)
- Ganis, F.M. Direct print photographic
paper for rapid analysis of
paper chromatograms containing
ultraviolet absorbing materials.
(Anal. Chem. 30: 2068, 1958)
- Ganis, F.M.
Radakovich, M. Isolation and identification
of corticosterone obtained after
incubation of cholesterol-21-C¹⁴
with bovine adrenal tissue.
(Federation Proc. 17: 226, 1958)
- Gerber, G.B.
Altman, K.I. Ribosyl transfer between ribose
nucleotides in the rat. (Nature
182: 1513-4, 1958)
- Glasser, S.R.
Izzo, J.L. Interrelationship between glucagon
and compound F in protein metab-
olism of adrenalectomized fasting
rats. (Abstract. 40th Meeting
Endocrine Soc., p. 50, 1958)
- Green, M. Chromatography of chlorophylls.
(Abstract. Federation Proc. 17:
439, 1958)
- Haft, D.E.
Miller, L.L. Alloxan diabetes and demonstrated
direct action of insulin on
metabolism of isolated perfused
rat liver. (Am. J. Physiol. 192:
33-42, 1958)
- Haft, D.E.
Miller, L.L. Enhanced sugar uptake fails to
simulate the insulin effect on
lipogenesis in the isolated
perfused rat liver. (Am. J.
Physiol. 193: 469-75, 1958)

BIOCHEMISTRY

- Izzo, J.L.
Glasser, S.R. Comparative metabolic responses to glucagon in man and rat. (Abstract. 40th Meeting Endocrine Soc., p. 111, 1958)
- Izzo, J.L.
Glasser, S.R. Influence of glycagon on protein metabolism of fasting rats. (Abstract. Federation Proc. 17: 78, 1958) (To be published in Endocrinology in Spring, 1960)
- Johnstone, D.E.
Howland, J.W. Study on the role of thyroid function in the rate of production and catabolism of antibody production in experimental animals. (Presented to the 1958 Annual Convention of the Am. Acad. of Allergy.)
- Konno, K.
Altman, K.I. Isolation of a glycine-carbohydrate residue from muscle collagen. (Nature 181: 994-5, 1958)
- Martin, G.R.
Firschein, H.E.
Mulyran, B.J.
Neuman, W.F. Concerning the mechanism of action of parathyroid hormone. II. Metabolic effects. (J. Am. Chem. Soc. 80: 6201-4, 1958)
- Moore, R. In vitro uptake by rat-tissue homogenates of radioiodinated, purified anti rat-organ serum. (J. Immunol. 80: 331-8, 1958)
- Neuman, W.F. The mechanism of parathyroid function. (J.-Lancet 78: 190-6 1958)
- Sokal, J.E.
Miller, L.L.
Sarcione, E.J. Glycogen metabolism in the isolated liver. (Am. J. Physiol. 195: 295-300, 1958) (Abstract. Federation Proc. 17: 152, 1958)

BIOCHEMISTRY

- Wiberg, J.S. On the mechanism of metal activation of deoxyribonuclease I. (Arch. Biochem. Biophys. 73: 337-85, 1958)
- Altman, K.I.
Salomon, K. Studies with tritiated bis-(2-iodoethyl)-deuteroporphyrin. (Abstract. Federation Proc. 18: 180, 1959)
- Bruns, F.H.
Haberland, G.L.
Altman, K. Bildung von hippursäure aus phenylalanin-3-C¹⁴ und phenylserin-3-C¹⁴ im organismus der ratte. (Biochem. Z. 331: 446, 1959)
- Glasser, S.R.
Izzo, J.L. Interrelationships of growth hormone and glucagon on protein metabolism in fasting hypophysectomized rats. (Abstract. 41st Meeting Endocrine Soc., p. 76, 1959)
- Green, M.
Miller, L.L. Alloxan diabetes, protein catabolism, studies in the isolated perfused rat liver. (Abstract. Federation Proc. 18: 237, 1959)
- Izzo, J.L.
Glasser, S.R. Metabolic interrelationships of growth hormone and glucagon in hypophysectomized rats. (Abstract. Federation Proc. 18: 73, 1959)
- Koszalka, T.R.
Horne, S.
Schlegel, B.
Altman, K.I. A new method for the determination of DNase II and a comparison with two other assay procedures. (Biochim. et Biophys. Acta 35: 197, 1959)
- Miller, L.L.
Sokal, J.E.
Sarcione, E.J. Effects of glucagon and tolbutamide on glycogen in isolated perfused rat liver. (Am. J. Physiol. 197: 286-8, 1959)

BIOCHEMISTRY

- Miller, L.L. Protein and amino acid metabolism studies with the isolated perfused rat liver. (Nutrition Reviews 17: 225-8, 1959)
- Moore, R. Localization of I¹³¹-labeled anti-rat lymph node and kidney rabbit antibodies in the rat. (J. Immunol. 83: 252-6, 1959)
- Berg, G.G. Histochemical demonstration of acid trimetaphosphatase and tetrametaphosphatase. (J. Histochem. and Cytochem. 8: 92-101, 1960)
- Berg, G.G.
Gordon, L.H. Presence of trimetaphosphatase in the intestinal mucosa and properties of the enzyme. (J. Histochem. and Cytochem. 8: 85-91, 1960)
- Chen, P.S., Jr.
Terepka, A.R.
Toribara, T.Y. A study of plasma ultrafiltration employing isotopic methods. (Abstract. Radiation Research 12: 427, 1960)
- Clarkson, T.W.
Rothstein, A. The transport of monovalent ions across the isolated small intestine of the rat. (Abstract. Federation Proc. 19: 128, 1960)
- Ganis, F.M. Preparation of derivatives of steroid hormones by direct chromic acid oxidation on paper. (Abstract. Federation Proc. 19: 161, 1960)
- Glasser, S.R.
Izzo, J.L. Influence of anabolic steroids on the protein catabolic action of glucagon. (Abstract. Federation Proc. 19: 162, 1960)
- Hausmann, E. The hydroxylation of proline and its incorporation into collagen. (Abstract. Federation Proc. 19: 145, 1960)

BIOCHEMISTRY

- Koszalka, T.R.
Miller, L.L. Proteolytic activity of rat skeletal muscle. I. Evidence for the existence of an enzyme active optimally at pH 8.5 to 9.0. II. Purification and properties of an enzyme active optimally at pH 8.5 to 9.0. (J. Biol. Chem. 235: 665-72, 1960)
- Michaelson, S.M.
El-Tamami, M.Y.
Thomson, R.A.E.
Howland, J.W. Absorption of I¹³¹-labeled fat in the dog. (Am. J. Vet. Research 21: 364-6, 1960)
- Miller, L.L. Glucagon: a protein catabolic hormone in the isolated perfused rat liver. (Nature 185: 248, 1960)
- Burke, W.T.
Miller, L.L. Biochemical changes during carcinogenesis. IV. Protein synthesis and urea production in perfused livers of rats fed 2-acetylaminoflourene. (Cancer Research 20: 658-60, 1960)
- Green, M.
Miller, L.L. Protein catabolism and protein synthesis in perfused livers of normal and alloxan diabetic rats. (To be published in J. Biol. Chem.)
- Shulman, M.
Altman, K.I.
Salomon, K. The effect of x-irradiation on the biosynthesis of haemoglobin. II. Experiments with α -amino-levulinic acid-2,3-¹⁴C. (Int. J. Radiat. Biol. 2: 28-36, 1960)
- Bruce, A.K. Organic synthesis of carbon-14 labeled hematoporphyrin dimethyl ester. (Thesis) 1954
- Greenberg, L.J. The effects of 2,2-Diethyl 1,3-Propanediol and 2,2-Diethyl 1,4-Butanediol on the succinoxidase system. (Thesis) 1954

BIOCHEMISTRY

- Millar, F.K. Investigations upon the growth, salt accumulation and related metabolic problems of plant tissue by the use of radioactive isotopes. (Thesis) 1954
- Ganis, F.M.G. Some observations on the in vitro metabolism of hormones. Part I. The effect of adrenocorticotrophic hormone (ACTH) on protein synthesis in the isolated perfused beef adrenal gland. Part II. The intermediary metabolism of steroids by kidney tissue. (Thesis) 1956
- Taylor, J.M. Studies on plasma levels and urinary excretion of aurin tri-carboxylic acid in the rabbit. (Thesis) 1956
- Wiberg, J.S. The influence of cations on the enzymatic hydrolysis of nucleic acids. (Thesis) 1956
- Blake, R.L. A study of glucose uptake by rat diaphragm in vitro. (Thesis) 1957
- Green, M. Studies on chlorophylls. (Thesis) 1957
- Haft, D.E. Metabolic studies on the isolated perfused rat liver. (Thesis) 1957
- Gordon, E.R. A study of the causes of glycogen accumulation in the liver of an irradiated rat. (Thesis) 1958
- Rowe, W.B. Studies on the deoxyribonucleases in the rat. (Thesis) 1959
- AECD-2361 Altman, K.I. The in vitro incorporation of the methylene carbon atom of glycine into rabbit bone marrow fats. (J. Biol. Chem. 177: 985-6, 1949)
- AECD-2613 Waterhouse, C.
Bassett, S.H.
Holler, J.W.
Cusson, K.Y. Metabolic studies on protein depleted patients receiving a large part of the nitrogen intake from human serum albumin administered intravenously. (J. Clin. Invest. 28: 245-64, 1949)

BIOCHEMISTRY

- AECU-56 Miller, L.L. Metabolic conversion of carbon chain of DL-lysine - α - C^{14} to L-arginine in the dog. (Federation Proc. 8: 229, 1949) 11/16/48
- AECU-64 Miller, L.L. Bale, W.F. Metabolic conversion of carbon chain of DL-lysine - α - C^{14} to L-glutamic and L-aspartic acids in the dog. (Federation Proc. 8: 230, 1949) 11/16/48
- AECU-65 Altman, K.I. Salomon, K. Noonan, T.R. Hemin synthesis in rabbit bone marrow homogenates. (J. Biol. Chem. 177: 489-90, 1949)
- AECU-745 Bly, C.G. Miller, L.L. Bale, W.F. The minor role of the non-hepatic tissues in plasma protein synthesis as observed with the aid of lysine - α - C^{14} (Federation Proc. 9: 153, 1950) (Nuclear Sci. Abstr. 4: 559, 1950)
- AECU-746 Miller, L.L. Bly, C.G. Watson, M.L. Bale, W.F. Plasma protein synthesis as observed in a direct study of the liver with the aid of lysine - α - C^{14} . (Federation Proc. 9: 206, 1950) (Nuclear Sci. Abstr. 4: 559, 1950)
- MDDC-1561 Rothstein, A. Some procedures for the preparation of highly purified adenosine triphosphate. 11/21/47
- MDDC-1734 Waterhouse, C. Cusson, K. Bassett, S.H. Metabolic studies on a solution of purified human albumin given intravenously to man. (Abs. Declassified Doc. 2: 170, 1948)
- MDDC-1758 Altman, K.I. Casarett, G.W. Masters, R.E. Noonan, T.R. Salomon, K. Hemin synthesis with glycine containing C^{14} in its alpha carbon atom. (J. Biol. Chem. 176: 319-25, 1948) (Abstract. Federation Proc. 7: 2, 1948)

CANCER

UR-242 p.21-36	Spar, I.L. Bale, W.F.	Variables affecting degree of I^{131} binding <u>in vitro</u> iodination of rabbit serum proteins.	2/26/53
UR-264	Bale, W.F. Spar, I.L.	<u>In vivo</u> localization of rat organ antibodies in ovaries, adrenals, and other tissues. (<u>J. Immunol. 73: 125-33, 1954</u>)	6/ 7/54
UR-330 p.17-25	Spar, I.L. Bale, W.F.	<u>In vivo</u> localization of antibodies against kidney, ovary, and adrenal in rats. (<u>Federation Proc. 13: 143, 1954</u>)	5/10/54
UR-332	Spar, I.L. Bale, W.F.	<u>In vivo</u> localization of labeled rat adrenal antibodies. (<u>J. Immunol. 73: 134-7, 1954</u>)	6/16/54
UR-397	Bale, W.F. Spar, I.L. Goodland, R.L. Wolfe, D.E.	Comparative <u>in vivo</u> and <u>in vitro</u> tissue fixation-studies of I^{131} labeled antibodies prepared in rabbits against rat kidney, lymph node, and tumor tissue.	8/ 5/55
UR-413*	Burke, W.T. Miller, L.L.	Biochemical changes during experimental carcinogenesis. I. Amino acid metabolism in perfused livers of rats with cirrhosis and azo dye-fed rats. (<u>Cancer Research 16: 330-7, 1956</u>)	
UR-450	Bale, W.F. Spar, I.L. Goodland, R.L.	Kidney localizing proteins derived from normal tissues. (<u>Federation Proc. 15: 507, 1956</u>)	6/ 6/56
UR-476	Goodland, R.L. Wolfe, D.E. Grimaldi, A. Spar, I.L. Bale, W.F.	Effect of different immunization procedures on organ specific antibody production.	2/ 7/57

*Journal publication only

CANCER

- UR-484 Spar, I.L. A search for tissue-fixed 4/ 5/57
Bale, W.F. antibodies--Distribution and
Wolfe, D.E. nature of antibodies against
Goodland, R.L. horse serum produced in rabbits,
Dewey, W. rats, and guinea pigs.
- UR-485 Spar, I.L. Use of urea and salicylate to 3/ 7/57
Bale, W.F. elute antibody from insoluble
Goodland, R.L. antigen. (Proc. Soc. Exptl.
Biol. Med. 94: 803-7, 1957)
- UR-531 Jordan, H.C. Constant protein catabolism 6/ 1/59
Miller, L.L. of Walker carcinoma 256 and
Peters, P.A. human skin epithelium in
tissue culture. (Cancer
Research 19: 195-200, 1959)
(Thesis---Jordan)
- UR-535 Spar, I.L. In vivo localization studies 9/30/58
Bale, W.F. of I^{131} labeled anti-Murphy-
Goodland, R.L. Sturm lymphosarcoma anti-
bodies. (Acta Union Inter-
nationale Contre le Cancer XV:
980-5, 1959)
- UR-536 Spar, I.L. Localization of I^{131} labeled 11/ 5/58
Goodland, R.L. antibody to rat fibrin in a
Bale, W.F. transplantable rat lympho-
sarcoma. (Proc. Soc. Exptl.
Biol. Med. 100: 259-62, 1959)
(Abstract. To be published in
Year Book of Cancer 4: 1960)
- UR-567 Bale, W.F. Experimental radiation therapy 4/ 8/60
Spar, I.L. of tumors using I^{131} carrying
Goodland, R.L. antibodies to fibrin. (To be
published in Cancer Research.)
- UR-568 Helmkamp, R.W. High specific activity iodina- 3/31/60
Goodland, R.L. tion of gamma-globulin with
Bale, W.F. iodine-131 monochloride.
Spar, I.L. (To be published in Cancer
Research.)
Mutschler, L.E.

CANCER

UR-569

4/12/60

- Spar, I.L.
Bale, W.F.
Goodland, R.L.
Casarett, G.W.
Michaelson, S.M.
- Distribution of injected I^{131} labeled antibody to dog fibrin in tumor-bearing dogs. (To be published in Cancer Research.)
- Bale, W.F.
Spar, I.L.
Goodland, R.L.
Wolfe, D.E.
- In vivo and in vitro studies of labeled antibodies against rat kidney and Walker carcinoma. (Proc. Soc. Exptl. Biol. Med. 89: 564-8, 1955)
- Goodland, R.L.
Bale, W.F.
Spar, I.L.
- Comparative study of I^{131} labeled organ specific antibodies. (Federation Proc. 14: 60, 1955)
- Spar, I.L.
Wolfe, D.E.
Bale, W.F.
- Organ specificity of I^{131} labeled rabbit kidney eluates in rats and rabbits. (Federation Proc. 14: 142-3, 1955)
- Brayer, F.T.
Glasser, S.R.
Howland, J.W.
- Hormones and radioactivity in cancer therapy. (N. Y. State J. Med. 56: 905-9, 1956)
- Spar, I.L.
Bale, W.F.
Wolfe, D.E.
Dewey, W.
- Distribution and nature of antibodies against horse serum produced in rabbits, rats and guinea pigs. (Federation Proc. 15: 175, 1956)
- Spar, I.L.
Bale, W.F.
Wolfe, D.E.
Goodland, R.L.
- Organ specificity of I^{131} labeled rabbit kidney eluates in rats and rabbits. (J. Immunol. 76: 119-29, 1956)
- Bale, W.F.
Spar, I.L.
- Studies directed toward the use of antibodies as carriers of radioactivity for therapy. (Advances in Biol. and Med. Phys. 5: 285-356, 1957)

CANCER

- Bale, W.F.
Spar, I.L.
Goodland, R.L. In vivo purification of I¹³¹ labeled localizing anti-rat lymphosarcoma antibody. (J. Immunol. 80: 482-94, 1958)
- Crain, R.C. Spontaneous tumors in the Rochester strain of the Wistar rat. (Am. J. Pathol. 34: 311-35, 1958)
- Goodland, R.L.
Spar, I.L.
Bale, W.F. Experiments directed toward use of antibodies as carriers of radioactivity for therapy. (Abstract. Radiation Research 9: 120-1, 1958)
- Salomon, K.
Altman, K.I. Further studies on I¹³¹-labeled bis (iodoethyl)-deuteroporphyrin in tumors. (Abstract. Radiation Research 9: 176, 1958)
- Spar, I.L.
Goodland, R.L.
Bale, W.F. Pre-iodination purification of in vivo localizing rat anti-Murphy-Strum lymphosarcoma antibody. (Abstract. Federation Proc. 17: 153, 1958)
- Bale, W.F.
Spar, I.L.
Goodland, R.L.
Izzo, M.J. Experimental radiation therapy with radioactive antibodies. (Abstract. Radiation Research 11: 432, 1959)
- Burke, W.T.
Miller, L.L. Biochemical changes during experimental carcinogenesis. II. Glutamine and glutamic acid metabolism in perfused livers of azo dye-fed rats. (Cancer Research 19: 148-54, 1959)
- Burke, W.T.
Miller, L.L. Biochemical changes during experimental carcinogenesis. III. The production of urea from aspartic acid, arginine, or ammonia in the perfused rat liver. (Cancer Research 19: 622-6, 1959)

CANCER

- Salomon, K.
Altman, K.I. Further studies with bis-(2-iodoethyl- I^{131})-deuteroporphyrin in tumor-bearing mice. (Proc. Am. Assoc. Cancer Research 3: 59, 1959)
- Spar, I.L.
Bale, W.F.
Goodland, R.L. Labeled fibrinogen and fibrinogen antibody studies in tumor-bearing rats and dogs. (Abstract. Federation Proc. 18: 149, 1959)
- Altman, K.I.
Salomon, K. Studies on the metabolism of bis-(2-iodoethyl- I^{131}) deuteroporphyrin- H^3 (bid) in tumor bearing mice. (Abstract. Federation Proc. 19: 330, 1960)
- Goodland, R.L.
Helmkamp, R.W.
Bale, W.F.
Spar, I.L.
Mutschler, L.E. High specific activity iodination of gamma globulin with iodine-131. (Abstract. Radiation Research 12: 439, 1960)
- Green, M.
Miller, L.L. Protein metabolism in Walker carcinoma 256 cells in tissue culture. (Abstract. Federation Proc. 19: 384, 1960)
- Altman, K.I.
Salomon, K. Studies on the selective accumulation of a porphyrin in mouse tumors. I. Retention of bis-(2-iodoethyl- I^{131}) deuteroporphyrin in tumor bearing mice. (To be published in Cancer Research.)
- Jordan, H.C.
Miller, L.L.
Peters, P.A. Constant protein catabolism of Walker 256 carcinoma in tissue culture. (To be published in J. Int. Union Against Cancer.) (See UR-531)

CANCER

- UN-199 Bale, W.F.
 Spar, I.L.
 Moore, R.
 Wolfe, D.E.
 Goodland, R.L. Tissue specific antibodies as carriers of radio-active materials for the treatment of cancer. (1st Intern. Conf. on the Peaceful Uses of Atomic Energy, Vol. 10, 382-6, 1956)
- UN-863 Bale, W.F.
 Spar, I.L.
 Goodland, R.L. Studies directed toward the use of antibodies as carriers of radioactivity for the therapy of cancer. (2nd Intern. Conf. on the Peaceful Uses of Atomic Energy, Vol. 24, 239-42, 1958)

CELL PHYSIOLOGY

UR-5 AECD-1964	Rothstein, A. Meier, R.	Phosphatases in cell surface of living yeast cells. (NNES Div. VI, Vol. 1, Chap. 25, Sec. 6) (<u>J. Cellular Comp. Physiol.</u> 32: 77-95, 1948)	1/ 6/48
UR-69 AECU-225	Rothstein, A.	The relationship of the cell surface to metabolism. IV. The role of cell surface phosphatases of yeast. (NNES Div. VI, Vol. 1, Chap. 25, Sec. 7) (<u>J. Cellular Comp. Physiol.</u> 34: 97-114, 1949)	4/ 6/49
UR-98	Rothstein, A. Meier, R.	Relationship of the cell surface to metabolism. VI. Hydrolysis of sucrose and raffinose.	10/28/49
UR-120 AECD-2886	Rothstein, A. Meier, R. Larrabee, C.	The relationship of the cell surface to metabolism. VII. The chemical nature of uranium complexing groups of the cell surface. (NNES Div. VI, Vol. 1, Chap. 25, Sec. 3) (<u>J. Cellular Comp. Physiol.</u> 38: 245-70, 1951)	5/18/50
UR-143	Rothstein, A. Berke, H.	Manifold effects of 2,4-dinitrophenol on the metabolism of living yeast cells.	11/ 7/50
UR-213 p.55	Rothstein, A. Demis, C.	The stimulation of yeast cell-metabolism by extracellular potassium. (Abstract. <u>Am. J. Physiol.</u> 171: 762, 1952)	7/31/52
UR-213 p.56	Rothstein, A. Berke, H.	Effects of dinitrophenol (DNP) on endogenous respiration and fermentation of yeast. (<u>Federation Proc.</u> 11: 133, 1952)	7/31/52
UR-213 p.57	Bair, W. Rouser, G.	Free amino acids in yeast under various conditions. (<u>Federation Proc.</u> 11: 183, 1952)	7/31/52

CELL PHYSIOLOGY

UR-214	Rothstein, A. Demis, C.	The relationship of the cell surface to metabolism. VIII. The stimulation of fermentation by extracellular potassium. (<u>Arch. Biochem. Biophys.</u> 44: 18-29, 1953)	7/29/52
UR-237	Rothstein, A. Meier, R. Scharff, T.G.	The relationship of the cell surface to metabolism. IX. The digestion of phosphorylated compounds by enzymes located on the surface of the intestinal cell. (<u>Am. J. Physiol.</u> 173: 41-46, 1953)	2/3/53
UR-244	Rothstein, A.	Enzyme systems of the cell surface involved in the uptake of sugars by yeast. (<u>Symposium of the Soc. for Exptl. Biol. No. VIII, Active Transport and Secretion: 165-201, 1954</u>)	3/24/53
UR-252	Hurwitz, L.	A comparative study of the inhibitory actions of the mercury and uranium on yeast and yeast hexokinase. (Thesis)	10/22/53
UR-260 p.66-67	Chen, P.S. Neuman, W.F.	Studies on the renal excretion of calcium.	5/29/53
UR-263	Demis, D.J. Rothstein, A. Meier, R.C.	The relationship of the cell surface to metabolism. X. The location and function of invertase in the yeast cell. (<u>Arch. Biochem. Biophys.</u> 48: 55-62, 1954)	6/ 9/53
UR-268 p.13	Rothstein, A. Meier, R. Scharff, T.	Phosphatases of the cell surface of intestinal cells. (Abstract. 37th Annual Fed. Meet., Chicago, Apr. 6-10, 1953)	9/ 2/53

CELL PHYSIOLOGY

UR-268 p.17	Demis, D.J.	The inhibitions of glucose uptake and of respiration of diaphragm muscle by mercury. (Abstract. 27th Annual Fed. Meet., Chicago, Apr. 6-10 1953)	9/ 2/53
UR-290 p.38	Hurwitz, L.	The inhibition of yeast hexokinase by uranyl ion. (Abstract. Am. Soc. for Pharm. and Experimental Therapeutics. New Haven, Conn., Sept. 7-9, 1953)	11/10/53
UR-290 p.40-41	Rothstein, A. Demis, V.	Fermentative reactions in the periphery of the yeast cell susceptible to extracellular pH. (Abstract. International Physiological Congress, Montreal, Aug. 31-Sept. 4, 1953)	11/10/53
UR-297	Demis, D.J.	A study of the effects of insulin and of mercury on the utilization of monosaccharides by excised rat diaphragm.	12/14/53
UR-348 p.25	Hurwitz, L. Chaffee, E.	Effect of mercuric chloride on yeast and on yeast hexokinase. (<u>Federation Proc. 13: 369, 1954</u>)	8/26/54
UR-348 p.27	Goodman, J.W. Rothstein, A.	Mechanisms of uptake of phosphate by yeast cells.	8/26/54
UR-375*	Rothstein, A. Chaffee, E. Hurwitz, L.	The inhibitory action of cysteine on the respiration of glucose and on the pasteur effect in yeast.	

*Internal report only

CELL PHYSIOLOGY

UR-382	Rothstein, A.	The relationship of the cell surface to electrolyte metabolism in yeast.	5/11/55
UR-404	Rothstein, A.	Ion exchange properties of cells and tissues.	7/27/55
UR-419*	Rothstein, A. Hayes, A.D.	The relationship of the cell surface to metabolism. XIII. The cation-binding properties of the yeast cell surface. (<u>Arch. Biochem. Biophys.</u> 63: 87-99, 1956)	
UR-502	Rothstein, A.	The transport of bivalent cations into the yeast cell in relation to potassium and phosphate uptake, (UNESCO/NS/RIC/79)	8/20/57
UR-520	Rothstein, A.	The biochemical and physiological functions of the cell surface. (<u>American Brewer Magazine</u> , 43-50, March 1958)	3/28/58
UR-547	Passow, H. Rothstein, A.	The binding of mercury by the yeast cell in relation to changes in permeability. (<u>J. Gen. Physiol.</u> 43: 621-33, 1960)	5/26/59
	Rothstein, A. Hurwitz, L. Meier, R.	Early divergence of pathways of aerobic and anaerobic glucose metabolism in yeast. (<u>Federation Proc.</u> 9: 110-11, 1950)	
	Hurwitz, L. Rothstein, A.	The relationship of the cell surface to metabolism. VII. The kinetics and temperature characteristics of uranium-inhibition. (<u>J. Cellular Comp. Physiol.</u> 38: 437-50, 1951)	
	Rothstein, A.	The function of enzymes on the surface of the cell. (<u>Science</u> 114: 1, 1951)	

*Journal publication only

CELL PHYSIOLOGY

- Rothstein, A.
Meier, R.
Hurwitz, L. The relationship of the cell surface to metabolism. V. The role of uranium-complexing loci of yeast in metabolism. (J. Cellular Comp. Physiol. 37: 57-81, 1951)
- Rothstein, A.
Berke, H. Effect of 2,4-dinitrophenol concentrations on rates of respiration and fermentation of yeast. (Proc. Soc. Exptl. Biol. Med. 81: 559-63, 1952)
- Rothstein, A.
Berke, H. Endogenous alcoholic fermentation in yeast induced by 2,4-dinitrophenol. (Arch. Biochem. Biophys. 36: 195-201, 1952)
- Demis, D.J.
Rothstein, A. Absence of an insulin effect on sugar uptake by rat diaphragm under anaerobic conditions. (Am. J. Physiol. 178: 82-4, 1954)
- Goodman, J.W.
Rothstein, A. Mechanisms of uptake of phosphate by yeast cells. (Federation Proc. 13: 57, 1954)
- Demis, D.J.
Rothstein, A. Relationship of the cell surface to metabolism. XII. Effect of mercury and copper on glucose uptake and respiration of rat diaphragm. (Am. J. Physiol. 180: 566-74, 1955)
- Bruce, A.K.
Stannard, J.N. Effect of x-irradiation upon potassium exchange in yeast. (Abstract. Radiation Research 5: 471, 1956)
- Rothstein, A. Compartmentalization of the cell surface of yeast in relation to metabolic activities. (Discussions Faraday Soc. No. 21: 229-38, 1956)

CELL PHYSIOLOGY

- Berke, H.L.
Rothstein, A. The metabolism of storage carbohydrates in yeast, studied with glucose-1-C¹⁴ and dinitrophenol. (Arch. Biochem. Biophys. 72: 380-95, 1957)
- Goodman, J.
Rothstein, A. The active transport of phosphate into the yeast cell. (J. Gen. Physiol. 40: 915-23, 1957)
- Bruce, A.K.
Stannard, J.N.. The effect of temperature on potassium transfer in irradiated yeast. (J. Cellular Comp. Physiol. 52: 165-76, 1958)
- Bruce, A.K.
Stannard, J.N. The effect of x-irradiation upon potassium retentivity of yeast. (J. Cellular Comp. Physiol. 51: 325-40, 1958)
- Clarkson, T.W.
Rothstein, A. Electrolyte and water transport across the small intestine of the rat. (Abstract. Federation Proc. 17: 26, 1958)
- Jennings, D.H.
Hooper, D.C.
Rothstein, A. The participation of phosphate in the formation of a "carrier" for the transport of Mg⁺⁺ and Mn⁺⁺ ions into yeast cells. (J. Gen. Physiol. 41: 1019-26, 1958)
- Rothstein, A.
Hayes, A.
Jennings, D.
Hooper, D. The active transport of Mg⁺⁺ and Mn⁺⁺ into the yeast cell. (J. Gen. Physiol. 41: 585-94, 1958)
- Rothstein, A.
Bruce, M. The efflux of potassium from yeast cells into a potassium free medium. (J. Cellular Comp. Physiol. 51: 439-55, 1958)

CELL PHYSIOLOGY

- Rothstein, A.
Bruce, M. The potassium efflux and
 influx in yeast at dif-
 ferent potassium concentra-
 tions. (J. Cellular Comp.
 Physiol. 51: 145-59, 1958)
- Clarkson, T.W.
Rothstein, A. Patterns of electrolyte
 transport across the small
 intestine of the rat.
 (Abstract. Federation Proc.
 18: 27, 1959)
- Passow, H.
Rothstein, A.
Loewenstein, B. An all-or-none response in
 the release of potassium by
 yeast cells treated with
 methylene blue and other
 basic redox dyes. (J. Gen.
 Physiol. 43: 97-107, 1959)
- Rothstein, A. Biochemical and physiological
 changes in irradiated yeast.
 (Radiation Research, Suppl. 1:
 357-71, 1959)
- Rothstein, A. The cell membrane as the site
 of action of heavy metals.
 (Federation Proc. 18: 1026-35,
 1959)
- Clarkson, T.W. Heavy metals. Discussion.
 (Federation Proc. 18. 1036-
 8, 1959)
- Rothstein, A.
Jennings, D.H.
Demis, C.
Bruce, M. The relationship of fermen-
 tation to cell structure in
 yeast. (Biochem. J. 71: 99-
 106, 1959)
- Rothstein, A. Role of the cell membrane in
 the metabolism of inorganic
 electrolytes by microorganisms.
 (Bacteriol. Rev. 23: 175-201,
 1959)

CELL PHYSIOLOGY

- | | | | |
|-----------|---|--|----------|
| | Clarkson, T.W.
Rothstein, A. | The transport of monovalent cations by the isolated small intestine of the rat. (<u>To be published in Am. J. Physiol.</u>) | |
| | Demis, D.J. | A study of the effects of insulin and of mercury on the utilization of monosaccharides by excised rat diaphragm. (Thesis) | 1954 |
| | Berke, H.L. | Assimilation and dissimilation of carbohydrates by Baker's Yeast. (Thesis) | 1955 |
| | Scharff, T.G. | The hexokinases of yeast. (Thesis) | 1956 |
| | Stuart, B.O. | The effects of high oxygen tensions on potassium retentivity and survival of Baker's yeast. (Thesis) | 1959 |
| MDDC-1522 | Rothstein, A.
Meier, R. | Triphosphatase and other phosphatases on the surface of living yeast cells. | 11/18/47 |
| UN-253 | Bair, W.J.
Stannard, J.N.
Bruce, A.K. | Relationship between electrolytes and radiation effects on cell metabolism. (1st Intern. Conf. on the Peaceful Uses of Atomic Energy, Vol. 11, 292-5, 1956) | |
| UN-267 | Rothstein, A. | Some biochemical functions of the cell surface as deduced by isotope studies. (1st Intern. Conf. on the Peaceful Uses of Atomic Energy, Vol. 12, 409-13, 1956) | |
| UN-2003 | Rothstein, A. | The mechanism of transport of bivalent cations into the yeast cell. (2nd Intern. Conf. on the Peaceful Uses of Atomic Energy, Vol. 24, 133-7, 1958) | |

CHEMISTRY, ANALYTICAL

M-1517	Bloor, W.R.	The determination of minute amounts of uranium in tissues and fluids.	5/15/44
M-1547	Stokinger, H.E.	Analysis of vanadium ore dust.	6/27/44
M-1564	Steadman, L.T.	The spectrochemical determination of uranium in biological material.	10/20/44
M-1565 AECD-2005	Tishkoff, G.H.	Polarographic analysis of uranium.	10/25/44
M-1566	Fanta, P.E.	Spectrophotometric investigations.	10/25/44
M-1567	Dounce, A.	The use of phenolphthalein phosphate for determination of alkaline phosphatase activity.	10/27/44
M-1569	Cohenour, L.B. Weil, C.S. Stokinger, H.E.	Quantitative colorimetric determination of uranium employing ferrocyanide and acetic acid.	11/15/44
M-1576 MDDC-971	Flagg, J.F. Lobene, R.	A rapid method for the determination of nitrogen oxides in air. (<u>J. Ind. Hyg. Toxicol. 30: 370-2, 1948</u>)	9/ 5/44
M-1581	Tarbell, A.	Report on fluoride analysis.	11/16/44
M-1583	Tishkoff, G.H. Fanta, P.E.	Special report to Dr. Hodge on discussions with Mr. Harold Givens re polarographic analysis.	11/25/44
M-1585	Stokinger, H.E.	Analysis of vanadium ore dust. (Supplement to M-1547)	10/30/44
M-1587	Flagg, J.F. Lobene, R.	Determination of uranium metal isatine- β -oxime as a reagent for uranium.	10/27/44
M-1608	Horton, C.A. Weil, C.S.	A semi-quantitative method of estimating $[BF_3]$ in air.	1/ /45

CHEMISTRY, ANALYTICAL

M-1633	Ware, E.	Organic reagents for uranium analysis.	2/ /45
M-1651	Flagg, J.F. Lobene, R.	The determination of My (Ra) in ores and concentrates.	2/ /45
M-1675	Hodge, H.C.	Abstracts of papers presented at the Symposium on Methods of Uranium and Fluoride Analysis held March 12-13, 1945.	
M-1694	Tarbell, A.T. Voss, M.J. Adolph, J.	A rapid method for direct titration of micro-quantities of [fluoride]- ion in relatively pure aqueous solutions.	5/18/45
M-1715	Flagg, J.F. Lobene, R.	Ferrisal as a colorimetric reagent for analysis of HF atmospheres.	5/ /45
M-1717	Eriksen, N.	Methods for sampling atmospheres containing small amounts of C-216 [fluorine] or H(C-216) [hydrogen fluoride].	5/23/45
M-1718	Schlanowitz, M.	Method for quantitative determination of C-216 [fluoride] based on the inhibition of liver esterase activity.	5/25/45
M-1719	Tishkoff, G.H.	Polarographic analysis of C-216 [fluoride].	6/ /45
M-1720	Neuman, W.F.	Fluorophotometric uranium analysis.	6/ /45
M-1721	Ware, E.	Organic reagents for uranium analysis.	6/ /45
M-1722	Steadman, L.T. Thompson, H.E. Reinhardt, G.E.	The spectrochemical determination of uranium in biological material.	6/19/45
M-1723	Tishkoff, G.H.	Polarographic analysis of UF_4 and UO_2 .	6/12/45
M-1724	Tishkoff, G.H.	Polarographic analysis of C-216 [fluoride].	6/12/45

CHEMISTRY, ANALYTICAL

M-1730	Neuman, W.F.	The determination of uranium in urine by means of direct fluorophotometry.	7/ /45
M-1745	Dounce, A.L.	Catalase machine and determination of urinary catalase.	7/ /45
M-1768	Flagg, J.F. Lobene, R.	The semi-micro volumetric determination of uranium.	9/ /45
M-1769	Ware, E.	Organic reagents for uranium analysis.	8/ /45
M-1785	Flagg, J.F. Lobene, R.	The application of chromatography to detection of U, and the separation of U from iron.	8/ /45
M-1798	Horton, C.A. Weil, C.S. Wilson, H.	A semi-quantitative method of estimating certain boron halides in air.	10/ /45
M-1826	Davis, W. Cohenour, L.	A rapid method for preparing uranium dust samples for analysis.	1/ /46
M-1943	Neuman, W.F.	The distribution and excretion of absorbed uranium. Part 1.. Analytical procedures and methods.	10/ /46
M-1950 MDDC-1707	O'Leary, J.F.	The determination of silica in beryllium metal powder.	1/31/47
M-1951 MDDC-941	Underwood, A.L. Neuman, W.F. Carlson, A.B.	Determination of small amounts of beryllium by fluorescence measurement.	2/ /47
M-1965 MDDC-1665	Kosel, G.E. Neuman, W.F.	A study of the reaction between beryllium and aurin tricarboxyllic acid.	4/ /47
M-1991 AECD-2216	Rodgers, J. Neuman, W.F.	Titration studies of complexes of uranium and organic anions. (NNES Div. VI, Vol. 1, Chap. 18, Sec. 1)	7/ /47
M-1997 paper 2 MDDC-1235	Neuman, W.F.	A review of analytical methods for beryllium.	9/ 1/47

CHEMISTRY, ANALYTICAL

M-2008 MDDC-1569	Underwood, A.L.	A new colorimetric method for determining traces of beryllium.	9/ 1/47
UR-3 AECD-1801	Neuman, W.F. Havill, J.R.	Polarographic studies of the uranyl citrate complex. (NNES Div. VI, Vol. 1, Chap. 18, Sec. 1)	2/ 1/48
UR-18 AECD-1957	Steadman, L.T.	The spectrochemical determination of beryllium.	3/26/48
UR-19 AECD-1982	Underwood, A.L. Neuman, W.F.	Studies on the color reaction of beryllium with alkanet preparations.	4/ 5/48
UR-21 p.57-58	Neuman, W.F.	Analytical method for beryllium.	4/23/48
UR-26 AECD-1990	Cucci, M.W. Neuman, W.F. Mulyran, B.J.	A quantitative study of the reaction between beryllium and quinizarin, 2-sulfonic acid. (<u>Anal. Chem. 21</u> : 1358-60, 1949)	5/ 6/48
UR-36 AECD-2161	Smith, F.A. Gardner, D.E.	Fluoride studies: A. Modified Williams titration for microgram quantities of fluoride. B. The analysis of atmospheric samples for fluoride content. C. The determination of fluoride in blood. (NNES Div. VI, Vol. 1, Chap. 19, Sec. 2)	6/ 9/48
UR-38 p.28-31	Laskin, S. Glover, N. Neuman, W.F. Feldman, I.	Dispersion of aerosols. The isolation of microquantities of uranium from solution by means of protein - a study of the factors involved.	7/15/48
UR-38 p.64-66	Hall, R.H.	Quantitative microanalytic method for thorium.	7/15/48
UR-41 AECD-2267	Steadman, L.T.	A spectrochemical method for the determination of uranium. (NNES Div. VI, Vol. 1, Chap. 19, Sec. 4)	8/10/48

CHEMISTRY, ANALYTICAL

UR-45 p.55-56	Neuman, W.F. Underwood, A.L. Kosel, G.E. Feldman, I.	Beryllium: Analytical procedure. Solution chemistry.	10/15/49
UR-47 AECD-2437	Hall, R.H.	A rapid colorimetric method for the determination of microquantities of thorium.	11/12/48
UR-59 AECU-133	Feldman, I. Neuman, W.F. Danley, R. Havill, J.R.	Physico-chemical studies of beryllium complexes. I. Complexing of beryllium by citrate.	1/19/49
UR-61 AECU-148	Mann, W. Gruschow, J.	Report on determination of citric acid. (NNES Div. VI, Vol. 1, Chap. 19, Sec. 3)	1/19/49
UR-73 AECD-2815	Rothstein, A. Frenkel, A. Larrabee, C.	Isotope techniques for determining the uranium content of biological materials.	5/ 9/49
UR-74 AECU-345	Neuman, W.F. Underwood, A.L.	Naphthazarin as a colorimetric reagent for beryllium.	5/20/49
UR-85	Feldman, I. Neuman, W.F. Havill, J.R.	Spectrophotometric studies of the uranyl citrate complex.	8/25/49
UR-86 AECD-2728	Neuman, W.F. Havill, J.R. Feldman, I.	Further polarographic studies of the uranyl citrate complex.	7/27/49
UR-96 p.97-103	Steadman, L.T.	The spectrochemical determination of zirconium in biological materials.	11/ 3/49
UR-103 p.36-37	Neuman, W.F. Toribara, T.Y. Underwood, A.L. Bonner, J. Feldman, I.	Beryllium. Analytical and physical chemistry.	1/31/50
UR-106	Kosel, G.E. Neuman, W.F.	Potentiometric titrations of beryllium. (Thesis)	2/ 1/50

CHEMISTRY, ANALYTICAL

UR-111	Bonner, J.F., Jr.	The isolation of morin as a reagent for beryllium analysis.	4/ 6/50
UR-132	Feldman, I. Neuman, W.F.	Spectrophotometric studies of the uranyl: citrate system in acid solution. (<u>J. Am. Chem. Soc. 73: 2312-5, 1951</u>)	8/11/50
UR-164 p.55-63	Toribara, T.Y. Chen, P.S., Jr.	The isolation of beryllium from biological materials.	5/ 9/51
UR-170	Toribara, T.Y. Chen, P.S., Jr.	The separation of beryllium from biological material. (<u>Anal. Chem. 24: 539-42, 1952</u>)	5/24/51
UR-235	Scott, R.G. Stannard, J.N.	Modified procedure for analysis of polonium ²¹⁰ in biological materials.	3/31/53
UR-242 p.3-5	Toribara, T.Y.	Centrifuge type of ultra-filtration apparatus. (<u>Anal. Chem. 25: 1286, 1953</u>)	2/26/53
UR-242 p.19-20	Mason, W.B. Coco, S.	Preparation of chromium (VI) solution having low iodine blank for FBI determination. (<u>Clin. Chem. 1: 117, 1955</u>)	2/26/53
UR-247	Chen, P.S., Jr. Toribara, T.	Determination of calcium in biological material by flame photometry. (<u>Anal. Chem. 25: 1642-4, 1953</u>)	3/31/53
UR-256	Axelrod, L.R.	The quantitative separation of estrogens by paper partition chromatography. (<u>J. Biol. Chem. 201: 59-69, 1953</u>)	4/28/53
UR-267	Toribara, T.Y. Sherman, R.E.	The analytical chemistry of micro-quantities of beryllium. (<u>Anal. Chem. 25: 1594-7, 1953</u>)	7/15/53
UR-268 p.6-8	Smith, F.A. DellaRosa, R.	Statistical evaluations of certain factors involved in the plating of polonium.	9/ 2/53

1131190

UR 00059

CHEMISTRY, ANALYTICAL

UR-268 p.15	Toribara, T.Y. Sherman, R.E.	Analytical chemistry of micro-quantities of beryllium. (Abstract. 6th Annual Summer Symposium of A.C.S. Div. of Analytical Chemistry, Troy, June 19-21, 1953)	9/ 2/53
UR-268 p.16	Chen, P.S., Jr. Toribara, T.Y.	Determination of calcium in biological material by flame photometry. (Abstract. Analytical Info. Meet. Oak Ridge, May 19-21, 1953)	9/ 2/53
UR-269	Baxter, R. Wood, D.	Apparatus for plating out polonium for analysis.	8/3/53
UR-285	Chen, P.S., Jr. Toribara, T.Y.	Some errors in the determination of calcium in aged blood serum. (<u>Anal. Chem.</u> 26: 1967, 1954)	10/12/53
UR-288	Axelrod, L.R.	The separation and identification of mixtures of C ₂₁ and C ₁₉ steroids by paper chromatography. (<u>J. Biol. Chem.</u> 205: 173-84, 1953)	10/29/53
UR-290 p.10-18	Smith, F.A. DellaRosa, R.	Further studies of certain factors affecting the measurement of polonium in biological materials.	11/10/53
UR-293	Feldman, I. Havill, J.R.	Spectrophotometric studies of the uranyl-lactate malate and -tartrate systems in acid solution. (<u>J. Am. Chem. Soc.</u> 76: 2114-5, 1954)	12/ 2/53
UR-311 p.29	Toribara, T.Y.	Calcium in blood serum by flame photometry. (Abstract. Analytical Chem. Conference, Indiana, Dec. 28-29, 1953)	2/ 9/54

CHEMISTRY, ANALYTICAL

UR-311 p.29	Toribara, T.Y.	Use of infrared for study of isolated biological systems. (Abstract. Analytical Chem. Conf., Indiana, Dec. 28-29, 1953)	2/ 9/54
UR-325	Toribara, T.Y. DiStefano, V.	Infrared identification in paper chromatography. (<u>Anal. Chem.</u> 26: 1519-21, 1954)	4/ 1/54
UR-330 p.13-16	Toribara, T.Y.	Beam condensing system for Beckman IR-2 infrared spectrophotometer. (<u>Anal. Chem.</u> 26: 2003, 1954)	5/10/54
UR-348 p.4-8	Wilson, H.B.	A colorimetric method for the determination of Zr in $ZrOCl_2$.	8/26/54
UR-426	Frisch, M. Feldman, I.	(A note on) precision plating of polonium. (<u>Anal. Chem.</u> 28: 2024, 1956)	2/15/56
UR-458*	Mason, W.B.	Spectrophotometry in medical research. (<u>Intern. Record. of Med.</u> 170: 37-44, 1957)	
UR-471*	Toribara, T.Y. Dewey, P.A. Warner, H.	Flame photometric determination of calcium in biological material. Effect of low level impurities from the calcium oxalate precipitation. (<u>Anal. Chem.</u> 29: 540-3, 1957)	
UR-513	Brayer, F.T.	A method for the determination of plasma corticosteroids.	12/16/57
	Neuman, W.F. Fleming, R.W. Carlson, A.B. Glover, N.	The fluorophotometric determination of uranium in biological material. (<u>J. Biol. Chem.</u> 173: 41-52, 1948)	
	Toribara, T.Y. Underwood, A.L.	Preparation of alkannin and naphthazarin for use as reagents for beryllium. (<u>Anal. Chem.</u> 21: 1352-6, 1949)	

*Journal publication only

1131192

CHEMISTRY, ANALYTICAL

- Underwood, A.L.
Neuman, W.F. Color reaction of beryllium with alkannin and naphthazarin. Spectrophotometric studies. (Anal. Chem. 21: 1348-52, 1949)
- Kosel, G.E.
Neuman, W.F. Color reaction between beryllium and aurin tricarboxylic acid. (Anal. Chem. 22: 936-9, 1950)
- Smith, F.A.
Gardner, D.E. A comparison of the thorium nitrate back-titration and the salt-acid thorium titration for the determination of fluoride. (Arch. Biochem. 29: 311-4, 1950)
- Rouser, G.
Marinetti, G.
Berry, J.F. Paper chromatography of phospholipids. (Introduced by W.R. Bloor). (Federation Proc. 13: 286, 1954)
- Arroyave, G.
Axelrod, L.R. The paper chromatographic separation and qualitative identification of mixtures of C₁₉O₃ steroids. (J. Biol. Chem. 208: 579-89, 1954)
- Axelrod, L.R. Microchemical detection of characteristic functional groups in steroids. (Anal. Chem. 27: 1308-11, 1955)
- Mason, W.B.
Coco, S. Mechanism of mercury interference in the FBI determination. (Abstract. Presented at the American Chemical Society 128th Meeting, Sept. 1955, Paper 138.)
- Mason, W.B. Use of radioactive phosphors as luminous standards in flame photometry. Determination of calcium. (Abstract. Anal. Chem. 27: 320, 1955)

1131193

CHEMISTRY, ANALYTICAL

- Chen, P.S., Jr. Microdetermination of
Toribara, T.Y. phosphorus. (Anal. Chem.
Warner, H. 28: 1756-8, 1956)
- Mason, W.B. The problem of specificity
Salvatore, J. in the chemical determination
Potter, J.L. of urinary catecholamines.
 (Abstract. Clin. Chem. 2:
 282, 1956)
- Mason, W.B. Spurious infrared bands due
Salvatore, J. to grinding small amounts of
 KBr in mortars of various
 composition. (Abstract.
 Spectrochim. Acta 8: 120,
 1956)
- Mason, W.B. Infrared procedure for identi-
Behringer, A.J. fying barbiturates present
Coco, S. in serum. (Abstract. Pre-
 sented at the American Chem-
 ical Society 132nd Meeting,
 Sept. 1957. Paper 181.)
- Mason, W.B. A semi-micro KBr unit for use
VanSlyke, H.N. with the Perkin-Elmer Model
 21 infrared spectrophotometer.
 (Abstract. Spectrochim. Acta. 9:
 169, 1957)
- Mason, W.B. Incorporation of microgram
Behringer, A.J. amounts of steroids into KBr
 for infrared analysis.
 (Abstract. Clin. Chem. 4:
 548, 1958)
- Mason, W.B. Infrared microsampling in
 bio-medical investigations.
 (Instrument News 10: 1958)
- Mason, W.B. Infrared spectrophotometry
 and its application in clinical
 chemistry. (Abstract. Clin.
 Chem. 5: 367, 1959)

CHEMISTRY, ANALYTICAL

- Mason, W.B. Ultraviolet and visible ultra-
microspectrophotometry using
KBr pellets. (Abstract. Presented
at the Pittsburgh Conference on
Analytical Chemistry and Applied
Spectroscopy, Pittsburgh, Pa.,
March 1959. Paper 34)
- Hammond, W.E. A spectrochemical method for 1952
the determination of naturally
occurring trace amounts of
beryllium in biological and
other material. (Thesis)
- AECU-4024 Hursh, J.B., ed. Chemical methods for routine 11/ /58
bioassay.
- MDDC-1485 Fink, K. Application of filter paper
Fink, R.M. partition chromatography to
Dent, C.E. the qualitative analysis of
volatile and non-volatile
organic acids. (Nature 160:
801-3, 1947)
- MDDC-1487 Fink, R.M. Use of radioactive reagents
Fink, K. in filter paper partition
chromatography.
- MDDC-1486 Fink, R.M. Radiocarbon and filter paper
Fink, K. partition chromatography.
(Science 107: 253-4, 1948)

1131195

CHEMISTRY OF BONE

M-1672	Hodge, H.C.	The adsorption of strontium at forty degrees by enamel, dentine, bone, and hydroxyapatite as shown by the radioactive isotope. (<u>J. Biol. Chem. 163: 1-6, 1946</u>)	4/11/45
M-1898	Neuman, M.W.	Studies of uranium uptake by bone ash.	4/ /46
M-2014 AECD-1915	Neuman, W.F. Neuman, M.W. Main, E.R. Mulryan, B.J.	The deposition of uranium in bone. I. Animal studies. (NNES Div. VI, Vol. 1, Chap. 24, Sec. 1.) (<u>J. Biol. Chem. 175: 705-9, 1948</u>)	2/ 9/48
M-2015 AECD-1916	Neuman, W.F. Neuman, M.W.	The deposition of uranium in bone. II. Radioautographic studies. (NNES Div. VI, Vol. 1, Chap. 24, Sec. 2) (<u>J. Biol. Chem. 175: 711-4, 1948</u>)	2/ 9/48
M-2016 AECD-1917	Neuman, W.F. Neuman, M.W. Main, E.R. Mulryan, B.J.	The deposition of uranium in bone. III. Effect of diet. (NNES Div. VI, Vol. 1, Chap. 24, Sec. 3) (<u>J. Biol. Chem. 175: 715-9, 1948</u>) (<u>Physiol. Revs. 74: 1330-7, 1948</u>)	2/ 9/48
M-2017 AECD-2215	Neuman, W.F. Neuman, M.W. Main, E.R. Mulryan, B.J.	The deposition of uranium in bone. IV. In vitro adsorption studies. (NNES Div. VI, Vol. 1, Chap. 24, Sec. 4) (<u>J. Biol. Chem. 179: 325-33, 1949</u>)	3/10/48
M-2018 AECD-2018	Neuman, W.F. Neuman, M.W. Main, E.R. Mulryan, B.J.	The deposition of uranium in bone. V. Ion exchange studies. (NNES Div. VI, Vol. 1, Chap. 24, Sec. 5) (<u>J. Biol. Chem. 179: 335-40, 1949</u>)	3/23/48
M-2019 AECD-2019	Neuman, W.F. Neuman, M.W. Main, E.R. Mulryan, B.J.	The deposition of uranium in bone. VI. Ion competition studies. (NNES Div. VI, Vol. 1, Chap. 24, Sec. 6) (<u>J. Biol. Chem. 179: 341-8, 1949</u>)	4/ 6/48

CHEMISTRY OF BONE

UR-15 AECD-1967	Bonner, J.F., Jr.	The influence of age on the uptake of radioactive phosphorus by the skeleton. (NNES Div. VI, Vol. 1, Chap. 24, Sec. 10)	3/17/48
UR-21 p.88-89	Neuman, W.F.	Bone deposition.	4/23/48
UR-45 p.54	Hodge, H.C. Underwood, E.E.	Ca ⁴⁵ adsorption.	10/15/48
UR-53 AECU-95	Falkenheim, M. Underwood, E.E. Hodge, H.C.	Calcium exchange as the mechanism for adsorption of the radioactive isotope by bone. (NNES Div. VI, Vol. 1, Chap. 24, Sec. 9) (<u>J. Biol. Chem. 188: 805-17, 1951</u>)	12/ 1/48
UR-55 AECU-132	Neuman, W.F. Mulryan, B.J.	Studies on the surface chemistry of bone. I. Recrystallization. (NNES Div. VI, Vol. 1, Chap. 24, Sec. 7.) (<u>J. Biol. Chem. 185: 705-12, 1950</u>) (<u>Federation Proc. 9: 304, 1950</u>)	1/13/49
UR-66 AECD-2580	Neuman, W.F. Neuman, M.W. Mulryan, B.J.	The failure of non-isotopic uranium to inhibit resorptive processes in rat femur. (NNES Div. VI, Vol. 1, Chap. 24, Sec. 8) (<u>J. Biol. Chem. 182: 151-2, 1950</u>)	3/21/49
UR-110	Neuman, W.F.	Bone as a problem in surface chemistry.	3/22/50
UR-114	Neuman, W.F. Neuman, M.W. Main, E.R. O'Leary, J. Mulryan, B.J. Smith, F.A.	The surface chemistry of bone. II. Fluoride deposition. (<u>J. Biol. Chem. 187: 655-61, 1950</u>)	4/26/50
UR-136	Hodge, H.C.	Some observations on the dynamics of calcification.	10/11/50

CHEMISTRY OF BONE

UR-148	Hodge, H.C. Underwood, E. Fisch, S.	Metabolism of calcium in normal, rachitic, and vitamin D treated rats as evidenced by radiocalcium (Ca^{45}) studies. (<u>Am. J. Physiol.</u> 166: 387-93, 1951)	1/15/51
UR-162	Neuman, W.F. DiStefano, V. Mulryan, B.J.	Observations on the role of phosphatase in calcification. (<u>J. Biol. Chem.</u> 193: 227-35, 1951)	4/23/51
UR-168	Megirian, D.	The deposition of fluoride in glycol-ashed bone.	6/ 6/51
UR-172	Neuman, W.F.	The surface chemistry of bone.	6/ 8/51

CHEMISTRY OF BONE

UR-222 p.53	Boyd, E. Neuman, W.F.	The ion-binding properties of cartilage. (Abstract. Josiah Macy Jr. Found., 4th Conference on Metabolic Interrelations, Jan. 7-8, 1952)	11/ 3/52
UR-228	Weikel, J.E., Jr. Neuman, W.F.	An improved determination of exchangeable ions in bone preparations.	11/13/52
UR-230	Neuman, W.F. Toribara, T.Y. Mulryan, B.J.	The surface chemistry of bone. VII. The hydration layer. (<u>J. Am. Chem. Soc.</u> 75: 4239-42, 1953)	11/18/52
UR-236	Gosselin, R.E. Coghlan, E.R.	The stability of complexes between calcium and orthophosphate, polymeric phosphate, and phytate. (<u>Arch. Biochem. Biophys.</u> 45: 301-11, 1953)	1/22/53
UR-238	Neuman, W.F.	Collected studies on hydroxylapatite.	6/11/53
UR-245	Boyd, E.S.	Studies on cartilage.	8/24/53
UR-268 p.4-5	DiStefano, V.	Selected studies on the role of bone phosphatase in calcification.	9/ 2/53
UR-268 p.14	Smith, F.A. Gardner, D.E. Hodge, H.C.	Age increase in fluoride content in human bone. (Abstract. Federation Proc. 12: 368, 1953)	9/ 2/53
UR-272	DiStefano, V.	Selected studies on the role of bone phosphatase in calcification.	9/17/53
UR-273	Levinskas, G.J.	Solubility studies of synthetic hydroxylapatite. (The lattice of bone mineral.) (Thesis)	9/14/53

CHEMISTRY OF BONE

- UR-284* Underwood, A.L. An infrared study of the
Toribara, T.Y. nature of bone carbonate.
Neuman, W.F. (J. Am. Chem. Soc. 77:
317-9, 1955)
- UR-290 Neuman, W.F. The significance of phosphatase in calcification. 11/10/53
p.34 DiStefano, V. (Abstract. XIX International
Physiological Congress,
Montreal, Aug. 31-Sept. 4,
1953)
- UR-290 Boyd, E.S. Oxygen consumption and 11/10/53
p.35 chondroitin sulfate synthesis
by chick embryonic cartilage.
(Abstract. 37th Annual
Federation Meeting, Chicago,
April 6-10, 1953)
- UR-290 Levinskas, G. Surface effects on the solu- 11/10/53
p.36 bility of bone salt. (Abstract.
37th Annual Fed. Meet.,
Chicago, April 6-10, 1953)
- UR-290 Hodge, H.C. The nature of the "carbonate" 11/10/53
p.39 Neuman, W.F. of bone mineral. (Abstract.
Osterhoudt, J. XIX International Physiolog-
Mulryan, B.J. ical Congress, Montreal,
Bale, W.F. Aug. 31-Sept. 4, 1953)
- UR-314 Neuman, W.F. Recrystallization in bone 2/22/54
Weikel, J.H., Jr. mineral. (Ann. N.Y. Acad.
Sci. 60: 685-95, 1955)
- UR-326 Weikel, J.H. The surface chemistry of bone. 4/ 2/54
Neuman, W.F. VIII. On the mechanism of
Feldman, I. ionic exchange. (J. Am. Chem.
Soc. 76: 5202-7, 1954)
- UR-330 Hodge, H.C. Solubility characteristics of 5/10/54
p.28-29 dentine, enamel and bone.
- UR-330 Neuman, W.F. The recrystallization of bone 5/10/54
p.30-31 mineral.

*Journal publication only.

CHEMISTRY OF BONE

UR-348 p.23	Weikel, J.H.	Ionic exchange and re-crystallization of bone mineral <u>in vitro</u> . (<u>Federation Proc. 13: 317, 1954</u>)	8/26/54
UR-348 p.24	Stoll, W.R.	On the nature of sodium in bone.	8/26/54
UR-348 p.39-40	Watson, M.L. Avery, J.K.	The development of the hamster lower incisor as observed by electron microscopy.	8/26/54
UR-359*	Weikel, J.H. Bonner, J.F. Neuman, W.F.	Skeletal growth of the rat. (<u>Proc. Soc. Exptl. Biol. Med. 88: 122-4, 1955</u>)	
UR-437*	Stoll, W.B. Neuman, W.F.	The uptake of sodium and potassium ions by hydrated hydroxyapatite. (<u>J. Am. Chem. Soc. 78: 1585-8, 1956</u>)	
UR-448*	Neuman, W.F. Mulryan, B.J. Toribara, T.Y.	The surface chemistry of bone. IX Carbonate: phosphate exchange. (<u>J. Am. Chem. Soc. 78: 4263-6, 1956</u>)	4/24/56
UR-470*	Strates, B.S. Neuman, W.F. Levinskas, G.J.	The solubility of bone mineral. II. Precipitation of near-neutral solutions of calcium and phosphate. (<u>J. Phys. Chem. 61: 279-82, 1957</u>)	
UR-472*	Neuman, W.F. Neuman, M.W.	Emerging concepts of the structure and metabolic functions of bone. (<u>Am. J. Med. 22: 123-31, 1957</u>)	
UR-512	Boyd, J. Neuman, W.F. Hodge, H.C.	On the mechanism of skeletal fixation of strontium. (<u>Arch. Biochem. Biophys. 80: 105-13, 1959</u>)	3/14/58
UR-551	Gitelman, H.J. Neuman, W.F.	Lead-hydroxy apatite interaction.	6/22/59

*Journal publication only.

CHEMISTRY OF BONE

- Neuman, W.F.
Riley, R.F. The uptake of radioactive phosphorus by the calcified tissues of normal and choline-deficient rats. (J. Biol. Chem. 168: 545-54, 1947)
- Falkenheim, M.
Neuman, W.F.
Hodge, H.C. Phosphate exchange as the mechanism for adsorption of the radioactive isotope by the calcified tissues. (J. Biol. Chem. 169: 713-22, 1947)
- Bonner, J.F. The influence of age on the uptake of radioactive phosphate by the skeleton of the rat. (Federation Proc. 9: 328, 1950)
- Hodge, H.C.
Underwood, E.E.
Falkenheim, M. Rates of calcium exchange in the system; powdered bone in calcium chloride solution. (Federation Proc. 9: 286, 1950)
- Neuman, W.F.
DiStefano, V.
Mulryan, B.J. The surface chemistry of bone. III. Observations on the role of phosphatase. (J. Biol. Chem. 193: 227-35, 1951)
- Hodge, H.C. The pathways of mineral metabolism in the tooth tissues as shown by radioisotopes. (N.Y. J. Dentistry 21: 288-94, 1951)
- Underwood, E.E.
Hodge, H.C. Calcium exchange in enamel and dentine as shown by calcium. (J. Dental Research 31: 64-73, 1952)
- Neuman, W.F.
Neuman, M.W. The nature of the mineral phase of bone. (Chem. Revs. 53: 1-45, 1953)

CHEMISTRY OF BONE

- DiStefano, V.
Neuman, W.F.
Rouser, G. The isolation of a phosphate ester from calcifiable cartilage. (Arch. Biochem. Biophys. 47: 218-20, 1953)
- Boyd, E.S.
Neuman, W.F. Chondroitin sulfate synthesis and respiration in chick embryonic cartilage. (Arch. Biochem. Biophys. 51: 475-86, 1954)
- Levinskas, G.J.
Neuman, W.F. The solubility of bone mineral. I. Solubility studies of synthetic hydroxylapatite. (J. Phys. Chem. 59: 164-8, 1955)
- Hodge, H.C. Some achievements and problems in studying the solubility of the mineral of the hard tissues. (Ann. N.Y. Acad. Sci. 60: 661-9, 1955)
- Toribara, T.Y.
Terepka, A.R.
Dewey, P.A. The ultrafiltrable calcium of human serum. I. Ultrafiltration methods and normal values. (J. Clin. Invest. 36: 738-48, 1957)
- Lamm, M.
Neuman, W.F. On the role of vitamin D in calcification. (A.M.A. Arch. Pathol. 66: 204-9, 1958)
- Stoll, W.R.
Neuman, W.F. The surface chemistry of bone mineral. X. The lack of interaction between sodium and carbonate ions. (J. Phys. Chem. 62: 377-9, 1958)
- Strates, B.
Neuman, W.F. On the mechanisms of calcification. (Proc. Soc. Exptl. Biol. Med. 97: 688-91, 1958)

CHEMISTRY OF BONE

- Terepka, A.R.
Toribara, T.Y.
Dewey, P.A. The ultrafiltrable calcium
of human serum. II. Varia-
tions in disease states and
under experimental conditions.
(J. Clin. Invest. 37: 87-98,
1958)
- Toribara, T.Y. Some analytical problems
associated with the study
of calcium metabolism.
(Record Chem. Progr. 19:
63-81, 1958)
- Fleisch, H.
Neuman, W.F. Quantitative aspects of nuclea-
tion in calcium phosphate
precipitation. (J. Am. Chem.
Soc. 82: 996, 1960)
- Neuman, W.F.
Neuman, M.W. Recent advances in bone growth
and nutrition. (Borden Rev.
Nutr. Res. 21: 37-60, 1960)
- Fleisch, H.
Neuman, W.F. On the role of phosphatase
in the nucleation of calcium
phosphate by collagen. (Letter.
J. Am. Chem. Soc. 82: 3783-84,
1960)
- Neuman, W.F.
Mulryan, B.J.
Martin, G.R. A chemical view of osteoclasts
based on studies with yttrium.
(To be published in Clin. Orthop.)
- Solomons, C.C.
Neuman, W.F. On the mechanisms of calcifi-
cation: the remineralization of
dentin. (J. Biol. Chem. 235:
2502-06, 1960)
- Boyd, E.S. Studies on cartilage. (Thesis) 1953
- DiStefano, V.F. selected studies on the role of 1953
bone phosphatase in calcification.
(Thesis)
- Weikel, J.H., Jr. Investigations into the dynamics 1954
of skeletal metabolism. (Thesis)

CHEMISTRY OF BONE

	Stoll, W.R.	The nature of sodium in bone. (Thesis)	1954
	Strates, B.	Selected studies on the mechanism of calcification. (Thesis)	1956
	Myers, H.M.	The nature of the hydration shell of hydroxylapatite. (Thesis)	1957
	Firschein, H.E.	The mechanism of action of the parathyroid hormone. (Thesis)	1958
	Martin, G.R.	On the nature of osteoclasts. (Thesis)	1958
UN-847	Neuman, W.F.	The use of isotopes in study of skeletal physiology and metabolism. (1st Intern. Conf. on the Peaceful Uses of Atomic Energy, Vol. 11, 134-7, 1956)	
UN-836	Neuman, W.F. Firschein, H.E. Martin, G.R. Mulryan, B.J.	Isotopes and parathyroid function. (2nd Intern. Conf. on the Peaceful Uses of Atomic Energy, Vol. 25, 271-4, 1958)	
UN-2397	Neuman, W.F.	On the mechanism of skeletal fixation of radiostrontium. (2nd Intern. Conf. on the Peaceful uses of Atomic Energy, Vol. 24, 197-200, 1958)	

CHEMISTRY - MISCELLANEOUS SUBJECTS

M-1568	Sunier, A.A.	Molecular species and thermodynamic considerations.	
M-1577	Dounce, A.L.	Physico-chemical experiments on the state of UO_2 in solution.	10/30/44
M-1586	Flagg, J.F.	Ra: The coprecipitation of $RaSO_4$ by $PbSO_4$.	11/ /44
M-1725	Tishkoff, G.H. Dounce, A.L.	An investigation of the oxidation-reduction potentials and complexing behaviour of various valence forms of uranium in aqueous solutions in the presence of various complexing anions.	6/19/45
M-1864	Tishkoff, G.H.	Electrochemical studies of uranium in non-complexing and complexing media. (NNES Div. VI, Vol. 1, Chap. 18, Sec. 2, pp. 97-141)	5/14/46
M-1897	O'Connell, P.W.	The intravenous administration of sodium bicarbonate. A literature survey.	9/ 6/46
UR-21 p.46-48	Stokinger, H.E.	The oxidation of UO_2 by dissolved oxygen in aqueous suspension.	4/23/48
UR-45 p.46	Neuman, W.F. Feldman, I.	Uranium complex.	10/15/48
UR-45 p.46-49	Rothstein, A.	Dissociation constants of various uranium complexes.	10/15/48
UR-58 AECU-106	Smith, F.A. Dziuba, S.P.	Preliminary observations on the uranium content of photographic materials.	12/22/48
UR-62 AECU-246	Feldman, I. Danley, R. O'Leary, J.F.	Physico chemical studies of beryllium complexes. II. An improved centrifuge type of ultrafiltration apparatus. <u>Anal. Chem.</u> 22: 837-8, 1950.	2/15/49

CHEMISTRY - MISCELLANEOUS SUBJECTS

UR-105	Danley, R. Feldman, I. Neuman, W.F.	Physicochemical studies of beryllium complexes. III. A quantitative investigation of the beryllium citrate complex in basic media.	1/23/50
UR-109	Underwood, A.L. Toribara, T.Y. Neuman, W.F.	Beryllium complexes with naphthazarin and alkannin. (<u>J. Am. Chem. Soc. 72: 5597-602, 1950</u>)	3/20/50
UR-163	Gosselin, R.E. Rothstein, A. Berke, H. Miller, G. Tidball, C. Meier, R.	Observations on the metabolism of a soluble sodium phosphate glass and its calcium salt.	5/ 3/51
UR-181	Feldman, I. Havill, J.R.	Some ion-exchange studies of the polymerization of beryllium. (<u>J. Am. Chem. Soc. 74: 2337-40, 1952</u>)	8/29/51
UR-198	Feldman, I. Havill, J.R. Neuman, W.F.	Physicochemical structures of beryllium complexes. IV. Ion-exchange studies of the beryllium-citrate complex. (Proceedings of Gordon Research Conference, 1954)	4/25/52
UR-213 p.3-6	Toribara, T.Y. Feldman, I.	Concerning the application of ion exchange resins to studies of complex ions.	7/31/53
UR-315	Feldman, I. Havill, J.R. Neuman, W.F.	Polymerization of uranyl-citrate-malate-tartrate and -lactate complexes. (<u>J. Am. Chem. Soc. 76: 4726-32, 1954</u>)	2/23/54
UR-330 p.32	Feldman, I.	Polymerization of uranyl-citrate, -malate, -tartrate, and -lactate complexes.	5/10/54

EDUCATIONAL PROGRAM

UR-96 p.104-13	Stannard, J.N.	[Outline of Radiological Physics Course, 1949-50]	11/ 3/49
UR-103 p.94-101	Stannard, J.N.	[Radiological Physics Course, October-December 1949. Radiation Biology Course, December 1949-February 1950]	1/31/50
UR-112	Bale, W.F. Casarett, G.W. Charles, D.R. Dahl, A. Howland, J.W. Hursh, J.B. Ingram, M. Kingsley, H.D. Leighton, A. Low, R.J. Martin, A.E. Mermagen, H. Payne, J.T. Scott, J. Stannard, J.N. Steadman, L.T.	Medical aspects of civil defense against atomic weapons, edited by J. N. Stannard and H. A. Blair.	9/ 1/50
UR-116 p.95-109	Stannard, J.N. Laskin, S.	[Industrial Hygiene and Toxicology Course, February- April 1950. Civil Defense Course for Physicians, March 27-31, 1950]	4/27/50
UR-127 p.90-93	Stannard, J.N.	[Practical Radiological Physics Course, May - June 1950]	8/ 1/50
UR-133	Stannard, J.N.	Outline for course in Radiological Physics, 1949-50.	8/28/50
UR-142 p.127-34	Stannard, J.N.	[Radiological Physics Course, 1950-51]	11/ 1/50
UR-152 p.118-34	Stannard, J.N.	[Industrial Hygiene and Toxicology Course, fall 1950. Industrial Medicine Course, fall 1950. Civil Defense Course for Nurses, November 13- 17, 1950. Radiological Physics Course for Residents in Radiol- ogy, fall 1950]	2/ 1/51

EDUCATIONAL PROGRAM

UR-164 p.115-24	Stannard, J.N.	Radiation Biology Course, February - April 1951. Industrial Medicine Course, January - March 1951.	5/ 9/51
UR-174 p.122-31	Stannard, J.N.	Tracer Chemistry Course, April - May 1951. Practical Radiological Physics Course, May - June 1951. Industrial Medicine Course, March - June 1951.	7/31/51
UR-188	Stannard, J.N.	Graduate training programs at the University of Rochester Atomic Energy Project.	4/10/52
UR-213 p.47-52	Stannard, J.N.	Practical Radiological Physics Course, March - June 1952. Biological Effects of Radiation Course, March - June 1952. Titles of M.S. and Ph.D. theses, June 1952.	7/31/52
UR-341	Blair, H.A. Stannard, J.N.	Graduate training programs at the University of Rochester Atomic Energy Project.	6/29/54
UR-510	Blair, H.A.	Graduate training programs at the University of Rochester Atomic Energy Project.	12/20/57
UR-600	Stannard, J.N.	Outline of courses in the Department of Radiation Biology and Atomic Energy Project, University of Rochester.	7/25/60

ELECTRON MICROSCOPY

M-2002 p.72-73	Bishop, F.W.	Use of the electron microscope for dust and fume studies. Electron micrographs of single whole cells.	11/15/47
M-2012 p.53-65	Bishop, F.W.	Methods of preparing samples of dusts and fumes for the electron microscope.	1/15/48
UR-45 p.122-4	Bishop, F.W.	Preparation of a rugged film for mounting materials for electron microscopy.	10/15/48
UR-70 p.82-87	Bishop, F.W.	A device to automatically deposit the proper thickness of metals used in shadow-casting in electron microscopy. (<u>Rev. Sci. Instr.</u> 20: 527-9, 1949)	4/25/49
UR-116 p.87-94	Watson, M.L. Jacobson, B.L. Scott, D.C.	Preliminary report on the preparation of tissue sections for the electron microscope.	4/27/50
UR-131	Watson, M.L. Jacobson, B.L.	Preparation of tissue sections for examination in the electron microscope.	8/10/50
UR-164 p.103-13	Watson, M.L.	Improved techniques for the preparation of tissue sections for the electron microscope.	5/ 9/51
UR-185	Watson, M.L.	Spermatogenesis in the adult albino rat as revealed by tissue sections in the electron microscope. (<u>Biochim. et Biophys. Acta</u> 8: 369-74, 1952) (Thesis)	1/21/52
UR-205 p.60-65	Watson, M.L.	A method for complete extraction of embedding material from tissue sections for the electron microscope. (<u>Biochim. et Biophys. Acta</u> 10: 349-54, 1953)	5/14/52

ELECTRON MICROSCOPY

UR-205 p.67-71	Watson, M.L.	A new microtome for thin-sectioning for electron microscopy. (<u>Biochim. et Biophys. Acta. 10: 1-4, 1953</u>)	5/14/52
UR-231	Robinson, R.A. Watson, M.L.	Collagen-crystal relationships in bone as seen in the electron microscope. (<u>Anat. Record 114: 383-410, 1952</u>)	11/28/52
UR-232	Watson, M.L. Robinson, R.A.	Collagen-crystal relationships in bone. II. Electron microscope study of basic calcium phosphate crystals. (<u>Am. J. Anat. 93: 25-60, 1953</u>)	5/18/53
UR-330 p.26	Watson, M.L. Avery, J.K.	Developing enamel as seen in the electron microscope.	5/10/54
UR-330 p.27	Watson, M.L. Avery, J.K.	Developing dentine as seen in the electron microscope.	5/10/54
UR-340*	Watson, M.L. Avery, J.K.	The development of the hamster lower incisor as observed by electron microscopy. (<u>Am. J. Anat. 1: 95, 1954</u>)	
UR-364*	Watson, M.L.	Pores in the mammalian nuclear membrane. (<u>Biochim. et Biophys. Acta 15: 475-9, 1954</u>)	
UR-389*	Witter, R.F. Watson, M.L. Cottone, M.A.	Morphology and ATP-ASE of isolated mitochondria. (<u>J. Biophys. Biochem. Cytol. 1: 127-38, 1955</u>)	
UR-391*	Parks, H.F. Peachey, L.D.	Morphological observations on cytoplasmic inclusions of phagocytosed submicroscopic particles in Kupffer cells of mice. (<u>Anat. Record 121: 348-9, 1955</u>)	

*Journal publication only

ELECTRON MICROSCOPY

- Bishop, F.W.
Suhrland, L.G.
Carpenter, C.M. A comparative study by electron microscopy of the morphology of Mycobacterium leprae with the cultivable species of Mycobacteria. (Intern. J. Leprosy 16: 361, 1948)
- Bishop, F.W. A technique for the production of silica-filmed electron microscope screens in quantity. (Rev. Sci. Instr. 20: 529-30, 1949)
- Bishop, F.W. A magnetic beam-splitting focusing device for the electron microscope. (Rev. Sci. Instr. 20: 532-3, 1949)
- Bishop, F.W. Photometer for electron microscope. (Electronics 23: 110-1, 1950)
- Bishop, F.W. A revolving specimen stage for the electron microscope. (Rev. Sci. Instr. 23: 504-5, 1952)
- Watson, M.L. Spermatogenesis in the albino rat as revealed by electron microscopy. A preliminary report. (Based on UR-131 and UR-164) (Biochim. et Biophys. Acta 8: 369-74, 1952)
- Parks, H.F.
Peachey, L.D.
Chiquoine, A.D. Submicroscopic morphology of cytoplasmic inclusions of phagocytosed colloidal particles in Kupffer cells of mice. (Abstract. Anat. Record 124: 428, 1956)
- Watson, M.L. Reduction of heating artifacts in thin sections examined in the electron microscope. (J. Biophys. Biochem. Cytol. 3: 1017-22, 1957)

ELECTRON MICROSCOPY

- Watson, M.L. Staining of tissue sections for electron microscopy with heavy metals. (J. Biophys. Biochem. Cytol. 4: 475-8, 1958)
- Watson, M.L. Staining of tissue sections for electron microscopy with heavy metals. II. Application of solutions containing lead and barium. (J. Biophys. Biochem. Cytol. 4: 727-30, 1958)
- Watson, M.L. Further observations on the nuclear envelope of the animal cell. (J. Biophys. Biochem. Cytol. 6: 147-56, 1959)
- AECU-63 Bishop, F.W. Device for producing an easily identified area on electron microscope specimen screen. (Rev. Sci. Instr. 20: 324, 1949)
- AECU-258 Bishop, F.W. A device to simplify the production of collodion-filmed screens for electron microscopy. 11/23/48
- AECU-673 Robinson, R.A. Bishop, F.W. Methods of preparing bone and tooth samples for viewing in the electron microscope. (Science 111: 655-7, 1950)

EXTERNAL RADIATION - BIOLOGICAL EFFECTS

M-1592	Harvey, R.A.	Report no. 1 - Dermatoglyphic unit.	9/ 1/44
M-1794	Bishop, F.W.	Effect of low voltage (30KV) x-radiation on the skin of the rabbit's ear.	11/13/45
M-1908	Stern, C. Uphoff, D. Maas, R. Monture, E. O'Brien, M.	Experiments to test the validity of the linear r dose/mutation relation in <u>Drosophila</u> at low doses: Acute irradiation with radium.	10/ 4/46
M-1966 MDDC-1200	Caspari, E. Stern, C.	The influence of chronic irradiation with gamma rays at low dosages on the mutation rate in <u>Drosophila Melanogaster</u> . (NNES Div. VI, Vol. 2, Chap. 16) (<u>Genetics</u> 33: 75-95, 1948)	4/26/47
M-2000 MDDC-1492	Uphoff, D.E. Stern, C.	The influence of irradiation for 24 hours with gamma rays at low dosage on mutation rate in <u>Drosophila</u> .	9/24/47
M-2001 MDDC-1488	Novitski, E.	The lack of an effect of aging on mutation rate induced by irradiation.	9/24/47
M-2002 p.17-20	Steadman, L.T.	Absorption spectra of the blood of irradiated animals.	11/15/47
M-2012 p.9-11	Noonan, T.R.	The effect of age upon survival time after acute irradiation.	1/15/48
UR-21 p.13-17	Noonan, T.R.	The effects of repeated exposure upon growth and peripheral blood picture of rats.	4/23/48
UR-21 p.27	Bennett, R.	Vitamin A content of liver following irradiation.	4/23/48
UR-21 p.28-37	Wilson, J.	Effects of roentgen irradiation on embryonic development.	4/23/48

EXTERNAL RADIATION - BIOLOGICAL EFFECTS

UR-21 p.37	Rekers, F.E.	Lysozyme activity following radiation.	4/23/48
UR-38 p.13-18	Noonan, T.R. Casarett, G.	Pathological findings in pigeons subjected to a single dose (5,000 r) of total body x-radiation.	7/15/48
UR-45 p.14-20	Noonan, T.R. Casarett, G.	Comparison of histopathological effects of radiation in adult and weanling rats subjected to 800 r acute body x-radiation.	10/15/48
UR-45 p.21-34	Steadman, L.T. Thompson, H.E.	Measurements on the blood plasma proteins of irradiated rabbits.	10/15/48
UR-45 p.35-43	Howland, J.W. Bennett, L.R.	Preliminary studies on the role of the adrenal in the radiation syndrome.	10/15/48
UR-45 p.43	Bradford, W.L.	Preliminary studies to determine the effect of the route of inoculation on the white blood cells in mice.	10/15/48
UR-45 p.43-44	Bradford, W.L.	Effect of x-ray irradiation on experimental murine pertussis.	10/15/48
UR-45 p.107-11	Hursh, J.B.	Effect of x-radiation on the uptake of iodine.	10/15/48
UR-46 AECU-17	Bennett, L.R. Collier, V. Kresge, M. Rekers, P.E.	A study of blood and salivary lysozyme in the x-irradiated dog.	11/ 1/48
UR-70 p.14-23	Steadman, L.T. Thompson, H.E.	Changes in plasma total lipids after whole body x-irradiation of rabbits.	4/25/49
UR-76 AECU-421	Bennett, L.R. Rekers, P.E. Kresge, M. Howland, J.W.	The influence of infection on the hematological effects and mortality following mid-lethal x-radiation.	5/24/49

EXTERNAL RADIATION - BIOLOGICAL EFFECTS

UR-88	Metcalf, R.G. Inda, F.A.	Pathology in animals subjected to repeated daily exposure to roentgen rays. (NNES Div. VI, Vol. 2, Chap. 12)	7/ 5/51
UR-89 AECU-615	Hursh, J.B. Mohney, J.B. Van Valkenburg, P.A.	Effect of x-irradiation on thyroid function in rats.	8/24/49
UR-90 AECU-604	Bennett, L.R. Bennett, V.C. Shaver, A. Grachus, T.	Studies on the absorption and distribution of vitamin A in x-irradiated rats. (<u>Proc. Soc. Exptl. Biol. Med.</u> 74: 439-43, 1950)	8/25/49
UR-92	Ely, J.O. Ross, M.H. Metcalf, R.G. Inda, F.A. Barnett, T.B. Casarett, G.W.	Clinical, pathological and hematological effects of chronic neutron radiation. (NNES Div. VI, Vol. 2, Chap. 18)	1/16/50
UR-96 p.13-20	Miller, L.L. Gates, E.	The effect of whole body radiation on plasma peptidase activity and plasma fibrinogen content. Possible indicators of injury from low dosage whole body radiation.	11/ 3/49
UR-96 p.31-34	Wilson, J.	Effects of x-irradiation on embryonic development in the rat.	11/ 3/49
UR-103 p.20-28	Steadman, L.T. Thompson, H.E.	Changes in blood lipids after whole body x-irradiation.	1/31/50
UR-104	Rekers, P.E.	Induced pregnancy in a mammalian host following severe total body x-irradiation. (<u>J. Lab. Clin. Med.</u> 37: 331-41, 1951)	3/30/50
UR-113	Casarett, G.W.	Pilot experiments on indications of radiation sickness and comparison of lethal doses of x-rays for rats and dogs at intensities of 160 r per hour and when delivered in 24 hours.	4/17/50

EXTERNAL RADIATION - BIOLOGICAL EFFECTS

UR-123	Metcalf, R.G. Blandau, R.J. Barnett, T.B.	The pathological changes exhibited by animals exposed to single doses of x-radiation. (NNES Div. VI, Vol. 2, Chap. 2)	7/17/50
UR-127 p.14-23	Casarett, G.W.	Effects of x-rays on spermatogenesis in dogs.	8/ 1/50
UR-135*	Stannard, J.N.	Problems in the establishment of maximum permissible radiation exposure levels. (Nuclear Sci. Abstr. 5: 121, 1951)	10/ 9/50
UR-139	Ingram, M.	Health hazards in radiation work. (Science 111: 103-9, 1950)	10/25/50
UR-140*	Bennett, L.R. Rekers, P.E. Howland, J.W.	The influence of infection on the hematological effects and mortality following mid-lethal x-radiation. (Radiology 57: 99-103, 1951)	10/27/50
UR-142 p.16-28	Mason, K.E. Shaver, S.L.	The degenerative changes in the testes of the adult rat after x-irradiation.	11/ 1/50
UR-150*	Brent, R.L. Jordan, H.C.	Possible late tumor development in rat embryos irradiated with 100 r of x-radiation on the 9th day of gestation. (Nuclear Sci. Abstr. 5: 774, 1951)	1/19/51
UR-152 p.13-33	Thompson, H.E. Steadman, L.T.	The effects of whole body x-irradiation on the blood glucose levels in rabbits.	2/ 1/51
UR-152 p.44-46	Coulter, M.P. Furth, F.W. Howland, J.W.	The incidence of bacteremia in the x-irradiated rat.	2/ 1/51
UR-152 p.47-53	Furth, F.W. Coulter, M.P. Howland, J.W.	Effects of a second large dose of x-radiation on dogs surviving one dose of x-radiation.	2/ 1/51

*Journal publication only

EXTERNAL RADIATION - BIOLOGICAL EFFECTS

UR-153*	Wilson, J.G.	Neoplastic growths induced by x-irradiation in embryonic rats. (<u>Nuclear Sci. Abstr.</u> 5: 774, 1951)	1/22/51
UR-157	Furth, F.W. Coulter, M.P. Howland, J.W.	Bacteriological studies in the x-radiated dog. (<u>Am. J. Pathol.</u> 28: 171-83, 1952)	2/13/51
UR-161	Noonan, T.R. VanSlyke, F. Hursh, J.B.	Effect of single doses of x-ray on the survival of rats.	4/20/51
UR-164 p.13-17	Duffy, B.J., Jr.	Total body x-radiation and 17-ketosteroid excretion in dogs.	5/ 9/51
UR-164 p.18-24	Coulter, M.P. Furth, F.W.	Bacteriology of the x-irradiated dog.	5/ 9/51
UR-164 p.25-33	Furth, F.W. Watson, R. Coulter, M.P.	Glucose tolerance tests in the x-radiated dog.	5/ 9/51
UR-169	Altman, K.I. Richmond, J.E. Salomon, K.	A note on the synthesis of fatty acids in bone marrow homogenates as affected by x-radiation. (<u>Biochim. et Biophys. Acta</u> 7: 460-5, 1951)	5/17/51
UR-174 p.13-18	Noonan, T.R.	Effect of diet on radiation injury.	7/31/51
UR-174 p.37-40	Furth, F.W. Shrier, J. Markham, J. Crocicata, M.	The Octab reaction of dog serum following x-irradiation.	7/31/51
UR-174 p.46-51	Ingram, M. Coonan, L. Nielsen, G. Jespersen, J. Piatt, D. Wright, M.	Bone marrow studies on dogs which survived single whole-body exposure to LD ₉₀₋₁₀₀ doses of x-rays.	7/31/51

*Journal publication only

EXTERNAL RADIATION - BIOLOGICAL EFFECTS

UR-178	Wilson, J.G. Karr, J.W.	Effects of irradiation on embryonic development. I. X-rays on the 10th day of gestation in the rat. (<u>Am. J. Anat.</u> 88: 1-34, 1951)	7/30/51
UR-179	Richmond, J.E. . Altman, K.I. Salomon, K.	Hemoglobin synthesis in bone marrow and spleen homogenates as affected by x-radiation.	7/23/51
UR-183	Wilson, J.G. Brent, R.L. Jordan, H.C.	Neoplasia induced in rat embryos by roentgen irradiation. (<u>Cancer Research</u> 12: 222-8, 1952)	9/ 5/51
UR-189 p.16-19	Mason, W.B. Coulter, M.P. Furth, F.W.	Electrolyte studies in irradiated dogs.	10/25/51
UR-189 p.20-32	Bair, W.J. Stannard, J.N.	Effects of x-rays on yeast growth and metabolism..	10/25/51
UR-189 p.39-45	Colgan, J. Gates, E. Miller, L.L.	Serum and urinary plasmin activity related to the hemorrhagic diathesis in irradiated dogs.	10/25/51
UR-191	Miller, R.W.	Some potential hazards of the widespread use of roentgen rays in pediatrics. (<u>Pediatrics</u> 11: 294-303, 1953)	3/13/52
UR-196	Ingram, M. Mason, W.B. Whipple, G.H., Jr. Howland, J.W.	Biological effects of ionizing radiation.	4/ 7/52
UR-200 p.54-58	Scott, J.K. Carr, M.	The activation of latent bartonellosis in the rat by external whole-body irradiation.	2/11/52
UR-205 p.18-30	Steadman, L.T. Grimaldi, A.J.	The prevention of x-irradiation induced hyperglycemia in rabbits by means of insulin.	5/14/52

EXTERNAL RADIATION - BIOLOGICAL EFFECTS

UR-205 p.36-47	Miller, R.W. Coulter, M.P.	Preliminary report on some clinical features of the radiation syndrome complicated by induced infection.	5/14/52
UR-206	Blair, H.A.	A formulation of the injury, life span, dose relations for ionizing radiation. I. Application to the mouse.	5/13/52
UR-207	Blair, H.A.	A formulation of the injury, life span, dose relations for ionizing radiations. II. Application to the guinea pig, rat and dog.	7/ 3/52
UR-209	Bale, W.F.	Relative effects of alpha, beta, gamma, and neutron radiation. The significance of these differences in radiation therapy. (Proceedings of National Cancer Conference, Cincinnati, Ohio, Vol. 2, 967-76, March 3-5, 1952)	5/28/52
UR-210	Colgan, J. Gates, E. Miller, L.L.	Serum and urinary fibrinolytic activity related to the hemorrhagic diathesis in irradiated dogs. (<u>J. Exptl. Med.</u> 95: 531-42, 1952)	6/ 2/52
UR-213 p.29-37	Miller, R.W. Coulter, M.P.	Some clinical features of infection induced in the abdomen-shielded x-irradiated dog.	7/31/52
UR-213 p.64	Noonan, T.R. Noonan, A.M.	Effect of roentgen irradiation upon growth and peripheral blood cell levels of the albino rat. (<u>Federation Proc.</u> 11: 114, 1952)	7/31/52
UR-218	Shaver, S.L.	X-irradiation injury and repair in the germinal epithelium of male rats. I. Injury and repair in adult rats. (<u>Am. J. Anat.</u> 92: 391-431, 1953) (Thesis)	9/23/52

EXTERNAL RADIATION - BIOLOGICAL EFFECTS

- UR-219 Shaver, S.L. X-irradiation injury and re- 9/23/52
pair in the germinal epithelium
of male rats. II. Injury and
repair in immature rats. (Am.
J. Anat. 92: 433-49, 1953)
(Thesis)
- UR-222 Miller, R.W. Reticuloendothelial function 11/ 3/52
p.4-8 Watson, R. in the x-irradiated (LD50)
rabbit as measured by tolerance
to pyrogenic material.
- UR-222 Ingram, M. Studies relative to the effect 11/ 3/52
p.25-36 Adams, M. of Piromen on the number and
Coonan, L. the phagocytic activity of
Nielsen, G. leukocytes of irradiated and
Piatt, D. normal dogs, and of one man.
Yettewich, G.
- UR-227 Steadman, L.T. Variation of x-irradiation-in- 11/ 7/52
Grimaldi, A.J. duced lipemia in rabbits with
dosage, administration of
insulin or ammonium chloride,
and the incidence of tetany.
- UR-233 Wilson, J.G. Effects of irradiation on 12/ 9/52
Jordan, H.C. embryonic development. II.
Brent, R.L. X-rays on the ninth day of
gestation in the rat. (Am.
J. Anat. 92: 153-87, 1953)
- UR-239 Casarett, G.W. Comparison of pathologic ef- 2/17/53
fects of radiation in weaning
and adult rats. (Arch. Pathol.
55: 393-402, 1953)
- UR-243 Wilson, J.G. Differentiation as a deter- 3/ 5/53
Jordon, H.C. minant of the reaction of
Brent, R.L. rat embryos to x-irradiation.
(Proc. Soc. Exptl. Biol. Med.
82: 67-70, 1953)
- UR-249 Whipple, G.H., Jr. Luminous bacteria as a radio- 8/25/53
biological test organism. (J.
Cellular Comp. Physiol. 43:
415-24, 1954) (Thesis)

EXTERNAL RADIATION - BIOLOGICAL EFFECTS

UR-251	Smith, D.S.	The application of infrared spectrophotometry to the detection of possible proteases and peptones in the blood of irradiated animals. (Thesis)	5/18/53
UR-260 p.12-14	Brayer, F.T. Glasser, S. Duffy, B.J., Jr.	Effect of x-radiation on adrenal steroid excretion in pigs.	5/29/53
UR-260 p.15-28	Miller, R.W. Coulter, M.P.	Mortality resulting from repeated exposure of dogs to total body and sub-total x-irradiation.	5/29/53
UR-268 p.10-12	Cotton, W.K. Miller, R.W.	Effects of a minimal lethal x-ray exposure of sensitizations of mice to histamine.	9/2/53
UR-278	Mason, W.B. Alpert, S. Smith, D.	Studies on the pathogenesis of death due to x-ray exposure: 1. Abnormalities of the epinephrine and nor-epinephrine responses of carotid arteries of fasting dogs receiving 250KVP exposures of 250r and 55r.	9/ 8/53
UR-290 p.4-9	Mason, W.B. Smith, W.K.	Severe neurological dysfunction in a fasting dog following 550r exposure to 250KVP x-rays.	11/10/53
UR-290 p.43	Altman, K.	Desoxyribonucleases in body fluids after irradiation. (Abstract. Radiobiology Congress, Aarhus, Denmark, July 18, 1953)	11/10/53
UR-291	Otis, E.M.	Prenatal mortality rates of seventeen radiation induced translocations in mice.	11/23/53
UR-292	Casarett, G.W.	Effects of daily low doses of x-rays on spermatogenesis in dogs.	11/12/53

EXTERNAL RADIATION - BIOLOGICAL EFFECTS

UR-296	Goldman, M. Glasser, S. Tuttle, L.	Extraembryonic vascular deterioration in the irradiated chick embryo. (<u>Proc. Soc. Exptl. Biol. Med. 97: 385-7, 1958</u>)	9/15/55
UR-312	Blair, H.A.	Recovery from radiation injury in mice and its effect on LD ₅₀ for durations of exposure up to several weeks.	2/10/54
UR-313	Brent, R.L.	Another possible cause of spontaneous mutations.	2/22/54
UR-317	Hursh, J.B. VanSlyke, F. Casarett, G.	The effect of single vs. divided doses of x-irradiation on survival of rats.	3/16/54
UR-318	Hursh, J.B. VanSlyke, F. Casarett, G.	Use of a test dose to estimate life shortening produced in rats by a single dose of x-irradiation.	3/16/54
UR-321	Bair, W.J.	The effects of x-radiation on the metabolism of Bakers' yeast. (<u>J. Gen. Physiol. 38: 493-504, 505-13, 1955 - Condensed</u>) (Thesis)	5/26/54
UR-348 p.20	Bair, W.J. Stannard, J.N.	Role of electrolytes and starvation in altering apparent radiosensitivity of Bakers' yeast. (<u>Federation Proc. 13: 14, 1954</u>) (<u>J. Gen. Physiol. 38: 493-504, 1955</u>)	8/26/54
UR-348 p.22	Scott, J.K. Stannard, J.N.	The role of Bartonella Muris infection in modifying the response of rats to irradiation from polonium or x-rays. (<u>Federation Proc. 13: 408, 1954</u>)	8/26/54
UR-348 p.33	Hursh, J.B. Casarett, G.	Life span reduction in rats caused by high single vs. divided doses of x-ray. (<u>Radiation Research 1: 38, 1954</u>)	8/26/54

EXTERNAL RADIATION - BIOLOGICAL EFFECTS

UR-352	Sikov, M.R. Noonan, T.R.	The effects of acute radiation and P-32 on 21 day and 32 day rats.	8/ 4/54
UR-403	Hursh, J.B. Casarett, G.	The lethal effect of acute x-irradiation on rats as a function of age. (<u>Brit. J. Radiol. 29: 169-71, 1956</u>)	7/27/55
UR-441	Casarett, G.W.	The effects of ionizing radiations from external sources on gametogenesis and fertility in mammals. A review.	5/24/56
UR-442	Blair, H.A.	Data pertaining to shortening of life span by ionizing radiation.	5/18/56
UR-443	Tuttle, L.W.	Radiation cataracts.	7/30/56
UR-444	Ingram, M.	Late hematological effects of exposure to ionizing radiation.	6/26/56
UR-445	Hursh, J.B. Noonan, T.R.	Some late effects of external radiation on growing and adult mammals.	8/23/56
UR-446	Hempelmann, L.H.	Malignant disease in human population exposed to ionizing radiation.	3/14/57
UR-455	Carsten, A.L. Noonan, T.R.	Determination of the recovery from lethal effects of lower body irradiation in rats.	7/23/56
UR-462	Blair, H.A.	Acute lethality of partial body in relation to whole body irradiation.	9/19/56
UR-465	Shively, J.N. Michaelson, S.M. Howland, J.W.	The response of dogs to bilateral whole body Co^{60} irradiation. Part I. Lethal dose determination. (<u>Radiation Research 9: 445-50, 1958</u>)	10/30/56

EXTERNAL RADIATION - BIOLOGICAL EFFECTS

UR-492	Casarett, G.W.	Acceleration of aging by ionizing radiation. (Abstract. <u>J. Gerontol.</u> 11: 436, 1956)	6/20/57
UR-496	Casarett, A.P. Casarett, G.W.	Histological investigations of mechanisms of x-ray effects on spermatogenesis in the rat. I. Introduction, purpose, methods and preliminary experiments. (Thesis)	7/ 9/57
UR-497	Casarett, A.P. Casarett, G.W.	Histological investigations of mechanisms of x-ray effects on spermatogenesis in the rat. II. Studies comparing effects of acute and chronic irradiation. (Thesis)	7/18/57
UR-506	Hursh, J.B.	The effect of ionizing irradiation on longevity.	10/ 1/57
UR-521	Casarett, G.W.	Interactions between cells and tissues following radiation.	3/28/58
UR-526	Brayer, F.T. Glasser, S.R. Casarett, G.W. Howland, J.W.	Indirect effects of x-irradiation on the thyroid of the chick embryo.	8/15/58
UR-527	Hursh, J.B. Casarett, G.W.	Recovery from a single dose of x-ray in old and young rats. (<u>Am. J. Physiol.</u> 196: 649-52, 1959)	11/ 3/58
	Altman, K.I. Casarett, G.W. Noonan, T.R. Salomon, K.	Radiation effects on tissues studied with C ¹⁴ -labeled glycine. (<u>Federation Proc.</u> 8: 349, 1949)	
	Salomon, K. Altman, K.I. Casarett, G.W. Noonan, T.R.	Effect of x-ray radiation and of starvation on hemoglobin synthesis in the rat. (<u>Federation Proc.</u> 8: 247, 1949)	

EXTERNAL RADIATION - BIOLOGICAL EFFECTS

- Charles, D.R. Radiation-induced mutations in mammals. (Radiology 55: 579-81, 1950)
- Ingram, M. Health hazards in radiation work. (Science 111: 103-9, 1950)
- Hursh, J.B. Effect of roentgen radiation on thyroid function in rats. (Radiology 56: 411-8, 1951)
 VanValkenburg, P.A.
 Mohney, J.B.
- Richmond, J.E. The effect of x-radiation on the biosynthesis of hemoglobin. (J. Biol. Chem. 190: 817-25, 1951)
 Altman, K.I.
 Salomon, K.
- Smith, W.W. Body weight, fasting and forced feeding after whole body x-irradiation. (Am. J. Physiol. 168: 382-90, 1952)
 Ackermann, I.B.
 Smith, F.
- Smith, W.W. Effect of altitude-induced polycythemia and reticulocytosis on tolerance of rats to radiation. (Part I was presented as thesis for U. of R. by W. S. Cool) (Am. J. Physiol. 170: 396-400, 1952)
 Cool, W.S.
 Smith, F.
 Altland, P.D.
- Kowlessar, O.D. Urinary excretion of acid and neutral deoxyribonuclease by rats under normal and post-irradiation conditions. (Nature 172: 867, 1953)
 Altman, K.I.
 Hemplemann, L.H.
- Brayer, F.T. Effect of x-irradiation on the adrenal cortical excretion in urine. (Science 120: 112, 1954)
 Glasser, S.R.
 Duffy, B.J., Jr.
- Kowlessar, O.D. The effect of ionizing radiation on desoxyribonuclease activities of body fluids. (Arch. Biochem. Biophys. 52: 362-72, 1954)
 Altman, K.I.
 Hemplemann, L.H.

EXTERNAL RADIATION - BIOLOGICAL EFFECTS

- Michaelsen, S. The use of beta irradiation
in veterinary ophthalmology.
(Vet. Med. XLIX: 475-8, 1954)
- Radakovich, M. The effect of total body irradiation
Dutton, A.M. on wound closure.
Schilling, J.A. (Ann. Surg. 139: 186-94, 1954)
- Schreier, K. Metabolism of benzoic acid
Altman, K. in normal and irradiated rats.
Hemplemann, L.H. (Proc. Soc. Exptl. Biol. Med.
87: 61-63, 1954)
- Scott, J.K. Relationship between Bartonella
Stannard, J.N. Muris infection and acute radiation
effects in the rat.
(J. Infectious Diseases 95:
302-8, 1954)
- Bair, W.J. Effect of starving and dioxin
Stannard, J.N. 50 treatment on growth of
normal and x-irradiated yeast.
(J. Gen. Physiol. 38: 505-13,
1955)
- Glasser, S.R. Post-irradiation sequelae in
Brayer, F. 6- and 12-day chick embryos.
(Federation Proc. 14: 58,
1955)
- Goldman, M. Vascular changes in the irradiated
Glasser, S. chick embryo. II.
Tuttle, L. Extraembryonic vascular deterioration.
(Abstract. Radiation Research 3: 228, 1955) (See
also UR-296)
- Haberland, G.L. Creatine-creatinine metabolism
Schreier, K. in radiation myopathy. (Nature
Bruns, F. 175: 1039, 1955)
- Altman, K.I.
Hemplemann, L.H.
- Hursh, J.B. Reduction of life span of rats
Noonan, T.R. by roentgen irradiation. (Am.
Casarett, G. J. Roentgenol. Radium Therapy
VanSlyke, F. Nuclear Med. 74: 130-4, 1955)

EXTERNAL RADIATION - BIOLOGICAL EFFECTS

- Ingram, M.
Mason, W.B. Literature on the biological effects of ionizing radiation. (Abstract. Presented at the Nuclear Engineering and Science Congress, Cleveland, Ohio, Dec. 1955. Paper 237.)
- Kowlessar, O.D.
Altman, K.I.
Hemplemann, L.H. The effect of ionizing radiation on deoxyribonuclease activities of body fluids. II. The plasma DNases after total body irradiation. (Arch. Biochem. Biophys. 54: 355, 1955)
- Bruce, A.K. Changes in potassium leakage from yeast after x-irradiation. (Abstract. Soc. Am. Bacteriologists, Proc., Oak Ridge, Tenn., Nov. 2-3, 1956)
- Carsten, A.L.
Noonan, T.R. Determination of the recovery from lethal effects of lower-body irradiation in rats. (Abstract. Radiation Research 5: 472, 1956)
- Casarett, A.P.
Casarett, G.W. Lymphatic effects of x-radiation of the transplanted adrenal cortex. (Presented at the Soc. Exptl. Biol. Med., Western New York Section, May 1956)
- Casarett, G.W.
Hursh, J.B. Effects of daily low doses of x-rays on spermatogenesis in dogs. (Abstract. Radiation Research 5: 473, 1956)
- Glegg, R.E.
Boyle, F.P.
Tuttle, L.W.
Wilson, D.E.
Kertesz, Z.I. The effects of ionizing radiations on plant tissues. (Radiation Research 5: 127-33, 1956)
- Howland, J.W. Radioactivity; injury and recovery from ionizing radiation exposure (Ann. Rev. Med. 7: 225-44, 1956)

EXTERNAL RADIATION - BIOLOGICAL EFFECTS

- Kertesz, Z.I.
Morgan, B.H.
Tuttle, L.W.
Lavin, M.
Petropoulos, M.C.
Altman, K.I.
Salomon, K.
- The effect of ionizing radiation on pectin. (Radiation Research 5: 372-81, 1956)
- The effect of x-irradiation on incorporation of orthophosphate-³²P and acetate-²⁻¹⁴C into rabbit erythrocyte stroma. (Biochim. et Biophys. Acta 22: 471-4, 1956)
- Baxter, R.C.
Tuttle, L.W.
- Life-span shortening in irradiated drosophila. (Abstract. Radiation Research 7: 303, 1957)
- Bruce, A.K.
- Comparative effects of far-ultraviolet, near-ultraviolet, and x-irradiation on potassium retentivity and survival in yeast. (Abstract. Radiation Research 7: 306, 1957)
- Haberland, G.L.
Schreier, K.
Altman, K.I.
Hempelmann, L.H.
- Cellular destruction and protein breakdown induced by exposure to x-rays. II. Further studies using the concept of the dynamic glycine pool. (Biochim. et Biophys. Acta 25: 237-41, 1957)
- Henderson, B.J.
Baxter, R.C.
Tuttle, L.W.
- The effect of a highly irradiated food medium on life span and development of drosophila melanogaster. (Abstract. Radiation Research 7: 321, 1957)
- Johnstone, D.E.
Howland, J.W.
- Study on the effects of cortisone and ACTH on reversed anaphylaxis in normal and irradiated animals. (J. Allergy 28: 418-22, 1957)

EXTERNAL RADIATION - BIOLOGICAL EFFECTS

- Lauenstein, K.
Haberland, G.L.
Hemplemann, L.H.
Altman, K.I. Cellular destruction and protein breakdown induced by exposure to x-rays. III. The use of hippuric acid for the simultaneous assessment of two "free" amino acid pools. (Biochim. et Biophys. Acta 26: 421-4, 1957)
- Mason, W.B.
Salvatore, J. Studies on the pathogenesis of death due to x-ray exposure: Quantitative relationships between food and water consumption, urine and stool production, and body weight for dogs receiving 250-Kvp exposures of 300 to 1000 R. (Abstract. Radiation Research 7: 438, 1957)
- Michaelson, S.M.
Shively, J.N.
Howland, J.W.
Pillemer, L. Radiation-induced changes in the properdin system of the dog. (Abstract. Radiation Research 7: 438, 1957)
- Okada, S.
Peachey, L.D. Effect of gamma irradiation on the desoxyribonuclease II activity of isolated mitochondria. (J. Biophys. Biochem. Cytol. 3: 239-48, 1957)
- Steadman, L.T. The immediate causes of early death in lethally x-irradiated rabbits, and suitable therapy. (Abstract. Radiation Research 7: 453, 1957)
- Bruce, A.K. Response of potassium retentivity and survival of yeast to far-ultraviolet, near-ultraviolet and visible, and x-radiation. (J. Gen. Physiol. 41: 693-702, 1958)

EXTERNAL RADIATION - BIOLOGICAL EFFECTS

- Casarett, A.P.
Casarett, G.W. Comparative histological effects of acute and chronic x-irradiation on the rat testis. (Abstract. Radiation Research 9: 99-100, 1958)
- Gerber, G.B.
Gerber, G.
Altman, K.I.
Hempelmann, L.H. Radiation-induced tissue breakdown. (Abstract. Radiation Research 9: 119, 1958)
- Glasser, S.R.
Brayer, F.T. Influence of x-irradiation on thyroid response of 12- and 15-day chick embryos. (Abstract. Radiation Research 9: 119-20, 1958)
- Johnstone, D.E.
Howland, J.W. A comparison of the effects on the Shwartzman phenomenon of leukopenia produced by nitrogen mustard and by whole body irradiation. (J. Exptl. Med. 108: 431-40, 1958)
- Michaelson, S.M.
Howland, J.W.
Blair, H.A. Injury and recovery patterns in the whole body irradiated dog. (Abstract. Federation Proc. 17: 448, 1958)
- Michaelson, S.M.
Howland, J.W. Radiation injury and recovery in the dog. (Abstract. Radiation Research 9: 153, 1958)
- Schulman, M.
Altman, K.I.
Salomon, K. The effect of x-rays on the biosynthesis of hemin. (Abstract. Radiation Research 9: 179, 1958)
- Brayer, F.T.
Glasser, S.R.
Casarett, G.W.
Howland, J.W. Indirect effect of x-irradiation on I^{131} uptake in chick embryos. (Proc. Soc. Exptl. Biol. Med. 101: 390-1, 1959) (See also UR-526)

EXTERNAL RADIATION - BIOLOGICAL EFFECTS

- Carsten, A.L.
Noonan, T.R. Recovery from partial-body x-irradiation as measured by the lethality of two exposures. (Radiation Research 11: 165-76, 1959)
- Konno, K.
Altman, K.I.
Hempelmann, L.H. Factors affecting metabolism of muscle collagen. II. Effect of radiation exposure. (Proc. Soc. Exptl. Biol. Med. 101: 320-1, 1959)
- Schulman, M.
Altman, K.I.
Salomon, K. Biosynthesis of hemin in irradiated rabbits. (Abstract. Federation Proc. 18: 319, 1959)
- Baxter, R.C.
Tuttle, L.W. The effect of x-irradiation on strontium-90 deposition in rats. (Abstract. Radiation Research 12: 421, 1960)
- Glasser, S.R. Radiation effects on formation of maternal placenta. (Abstract. Radiation Research 12: 438, 1960)
- Angel, C.R.
Noonan, T.R. Urinary taurine excretion patterns in the rat, rabbit, guinea pig and dog following exposure to whole body x-irradiation. (Abstract. Federation Proc. 19: 353, 1960)
- Casarett, G.W. Acceleration of aging by ionizing radiation. (To be published in Proc. of the Symposium on Biol. Aspects of Aging.)
- Hansen, C.L., Jr.
Michaelson, S.M.
Howland, J.W.
Dutton, A.M. The febrile response following upper body x-irradiation of beagles. (Abstract. Radiation Research 12: 440, 1960)

EXTERNAL RADIATION - BIOLOGICAL EFFECTS

- | | | |
|---|--|------|
| Michaelson, S.M.
Thomson, R.A.E.
Hansen, C.L., Jr.
Howland, J.W. | Long term effects of ionizing radiation in the dog. (Abstract. <u>Radiation Research</u> 12: 456, 1960) | |
| Hansen, C.L., Jr.
Michaelson, S.M.
Howland, J.W. | Lethality of upper body x-irradiation. (Abstract. <u>Federation Proc.</u> 19: 352, 1960) | |
| Thomas, R.G. | Chromosome aberrations in lymph nodes of rats exposed to x-radiation. (Thesis) | 1947 |
| Provoost, A.T. | Histopathological effects of x-irradiation of the transplanted adrenal cortex on shielded lymphatic organs in rats. (Thesis) | 1953 |
| Smith, P.H. | Studies on gastrointestinal motility and absorption of glucose after x-irradiation. (Thesis) | 1953 |
| Gordon, E.R. | Changes induced by irradiation in organ weight and liver chemistry in adrenalectomized and intact rats. (Thesis) | 1954 |
| Milani, R.E. | Some aspects of calcium metabolism in x-irradiated rabbits. (Thesis) | 1954 |
| Roberts, C.J., Jr. | Some effects of aging, x-radiation, and radium poisoning on the rat aorta. (Thesis) | 1955 |
| Brent, R.L. | The effect of x-irradiation on rat embryos at the twelfth day of gestation. (Thesis) | 1955 |
| Lewis, L. | The biological equivalence of thermal neutrons to x-radiation in rats as determined by the time to recover weight loss after irradiation. (Thesis. Work done at Brookhaven.) | 1955 |

EXTERNAL RADIATION - BIOLOGICAL EFFECTS

- | | | | |
|-----------|-----------------------------|---|---------|
| | Bruce, A.K. | The effects of ionizing radiation upon potassium exchange in yeast. (Thesis) | 1956 |
| | Lovaas, A. | The effect of alpha-irradiation on the luminescence of <i>Achromobacter fischeri</i> . (Thesis) | 1956 |
| | Carsten, A.L. | Investigation of the lethal mechanisms associated with upper body x-irradiation in the rat, with special emphasis on the rate of recovery. (Thesis) | 1957 |
| | Keary, F.V. | The effects of sodium pentobarbital after x-irradiation. (Thesis) | 1958 |
| | Schulman, M. | The effects of ionizing radiation on the incorporation of delta-aminolevulinic acid-2, 3-C ¹⁴ into hemin. (Thesis) | 1958 |
| | Angel, C.R. | Effect of whole body x-irradiation upon the excretion of taurine and other metabolites in four species of mammals. (Thesis) | 1960 |
| | Hansen, C.L., Jr. | The biological effects of upper body x-irradiation of beagles. (Thesis) | 1960 |
| AECD-2010 | Dale, P.P. | The effect of x-rays on the rat incisor. (<u>Abs. Declassified Doc. 2: 339, 1948</u>) | |
| AECU-747 | Shaver, S.L.
Mason, K.E. | Selective testicular damage in rats due to x-rays. (<u>Nuclear Sci. Abstr. 4: 550, 1951</u>) | |
| AECU-830 | Wilson, J.G.
Karr, J.W. | Difference in the effects of x-irradiation in rat embryos of different ages. | 3/24/50 |
| MDDC-551 | Craver, B.N. | The effect of x-rays on the <u>in vitro</u> motility of feline intestine. (<u>Am. J. Roentgenol. Radium Therapy 58: 357-8, 1947</u>) | |

EXTERNAL RADIATION - BIOLOGICAL EFFECTS

- MDDC-712 Craver, B.N. The effect of adrenal cortical injury on toxicity of x-rays. (Federation Proc. 6: 319, 1947)
- MDDC-765 Spencer, W.P. Stern, C. Experiments to test the validity of the linear r-dose/mutation frequency relation in *Drosophila* at low dosage. (Genetics 33: 43-74, 1948) (NNES Div. VI, Vol. 2, Chap. 7)
- MDDC-936 Flick, J.J. Ocular lesions following the atomic bombing of Hiroshima and Nagasaki. (Am. J. Ophthalmol. 31: 147, 1948)
- MDDC-1185 Grobman, A.B. Charles, D.R. A new dominant autosomal mutant affecting coat color in the mouse. Mus musculus. (J. Heredity 38: 381-4, 1947)
- MDDC-1450 Evans, T.C. Effects of small daily doses of fast neutrons on mice. (Radio-logy 50: 811-34, 1948)
- NEPA-1019- Charles, D.R.
IER-17
p.36-42 Genetic changes in human sperm and eggs, caused by a single exposure of 300 r or less.
- UN-244 Blair, H.A. A formulation of the relation between radiation dose and shortening of life span. (1st Intern. Conf. on the Peaceful Uses of Atomic Energy, Vol. 11, 118-20, 1956)
- UN-257 Casarett, G.W. Hursh, J.B. Effects of daily low doses of x-rays on spermatogenesis in dogs. (1st Intern. Conf. on the Peaceful Uses of Atomic Energy, Vol. 11, 184-7, 1956)
- UN-2324 Hursh, J.B. Casarett, G.W. Carsten, A.L. Noonan, T.R. Michaelson, S.M. Howland, J.W. Blair, H.A. Observations on recovery and irreversible radiation injury in mammals. (2nd Intern. Conf. on the Peaceful Uses of Atomic Energy, Vol. 22, 178-83, 1958)

EXTERNAL RADIATION - PROTECTIVE AND THERAPEUTIC MEASURES

M-2003 MDDC-1219	Rekers, P.E. Field, J.B.	Control of hemorrhagic syndrome and reduction in x-irradiation mortality with a flavonone. (<u>Science 107: 16-17, 1948</u>)	8/12/47
M-2009 MDDC-1658	Field, J.B. Rekers, P.E.	A prophylactic approach to the anaphylactic factors in irradiation disease.	1/12/48
M-2010 MDDC-1672	Field, J.B. Rekers, P.E.	Ionizing irradiation disease and a study of the protective nature of flavonones. (<u>Am. J. Med. Sci. 218: 1-15, 1949</u>)	1/12/48
UR-21 p.28	Rekers, P.E.	Rutin studies.	4/23/48
UR-38 p.25-27	Rekers, P.E. Field, J.B.	Rutin studies.	7/15/48
UR-57 AECU-149	Field, J.B. Rekers, P.E.	Studies of the effects of flavonoids on roentgen irradiation disease. II. Comparison of the protective influence of some flavonoids and vitamin C in dogs. (<u>J. Clin. Invest. 28: 746-51, 1949</u>)	1/19/49
UR-94	Howland, J.W. Furth, F.W. Bennett, L.R. Coulter, M.P. McDonnel, G.M.	Studies on factors effecting the radiation syndrome. I. The effect of aureomycin and antibiotics on whole body irradiation.	10/14/49
UR-116 p.22-34	Furth, F.W. Coulter, M.P.	The effect of aureomycin on the radiation syndrome in dogs.	4/27/50
UR-127 p.32-38	Furth, F.W. Coulter, M.P.	Effect of aureomycin and terramycin on the mortality and diarrhea of the x-radiated rat.	8/ 1/50
UR-146	Furth, F.W. Coulter, M.P.	The effect of aureomycin on the radiation syndrome in dogs. (<u>Am. J. Pathol. 28: 25-36, 1952</u>)	12/15/50

EXTERNAL RADIATION - PROTECTIVE AND THERAPEUTIC MEASURES

UR-147*	Howland, J.W. Furth, F.W. Coulter, M.P.	Effect of terramycin on the acute radiation syndrome in dogs. (<u>Federation Proc. 10: 67, 1951</u>)	1/15/51
UR-152 p.34-38	Furth, F.W. Coulter, M.P. Howland, J.W.	Failure of alpha tocopherol to protect against radiation injury in the rat.	2/ 1/51
UR-152 p.39-43	Furth, F.W. Coulter, M.P. Howland, J.W.	Effect of crude and crystallized aureomycin on the weight of normal and x-irradiated rats.	2/ 1/51
UR-158	Furth, F.W. Coulter, M.P. Howland, J.W.	The effect of aureomycin and terramycin on the x-irradiated rat. (<u>Am. J. Pathol. 28: 185-91, 1952</u>)	2/14/51
UR-174 p.19-25	Furth, F.W. Coulter, M.P. Shrier, J. Markham, J.	A study of the protective and therapeutic effect of folic acid and the citrovorum factor on the x-irradiated rat.	7/31/51
UR-174 p.26-30	Coulter, M.P. Furth, F.W.	The effect of Polymyxin on x-irradiated rats.	7/31/51
UR-174 p.31-36	Furth, F.W. Coulter, M.P.	The effect of aureomycin at two dosage levels on the acute radiation syndrome in the dog.	7/31/51
UR-174 p.41-45	Coulter, M. Furth, F.W.	The sensitivity to aureomycin and terramycin of bacteria from x-irradiated dogs.	7/31/51
UR-186	Swisher, S.N. Furth, F.W.	The effect of early small exchange transfusion on the x-irradiated dog. (<u>Proc. Soc. Exptl. Biol. Med. 78: 226-9, 1951</u>)	10/11/51
UR-189 p.46-51	Coulter, M.P. Furth, F.W.	The effect of spleen shielding on x-irradiation mortality in dogs.	10/25/51

*Journal publication only

EXTERNAL RADIATION - PROTECTIVE AND THERAPEUTIC MEASURES

UR-189 p.52-55	Furth, F.W. Coulter, M.P. Miller, R.W. Swisher, S.N.	Effect of aureomycin and whole blood, singly and in combination, on the x-irradiated (575 r) dog.	10/25/51
UR-195	Coulter, M.P. Furth, F.W. Howland, J.W.	Therapy of the x-irradiation syndrome with terramycin. (<u>Am. J. Pathol. 28: 875-81, 1952</u>)	4/ 2/52
UR-205 p.31-35	Coulter, M. Miller, R.	Protection of the x-irradiated dog with external abdominal shielding.	5/14/52
UR-205 p.57-59	Coulter, M. Furth, F.	Effect of rutin on the x-irradiated dog.	5/14/52
UR-213 p.21-28	Howland, J.W. Miller, R.W. Coulter, M.P.	Effect of Marsilid, Rimifon, or Aldinamide (anti-tuberculosis drugs) on some acute effects of x-irradiation of the rat.	7/31/52
UR-213 p.67	Furth, F.W. Coulter, M.P. Miller, R.W. Howland, J.W. Swisher, S.N.	Effect of aureomycin and whole blood separately and in combination on x-irradiated dog. (<u>Federation Proc. 11: 416, 1952</u>)	7/31/52
UR-221	Furth, F.W. Coulter, M.P. Miller, R.W. Howland, J.W. Swisher, S.N.	The treatment of the acute radiation syndrome with aureomycin and whole blood. (<u>J. Lab. Clin. Med. 41: 918-27, 1953</u>)	11/ 8/52
UR-222 p.9-14	Cotton, W.K. Miller, R.W. Swisher, S.N.	The effect of whole blood transfusion on dogs receiving an LD ₀ exposure to ionizing radiation. (<u>Science 118: 111-2, 1953</u>)	11/ 3/52
UR-222 p.15-24	Grace, J.L. Seeger, J. Miller, R.W.	The effect of cross-transfusions on the acute radiation syndrome in the dog.	11/ 3/52

EXTERNAL RADIATION - PROTECTIVE AND THERAPEUTIC MEASURES

UR-260 p.44-45	Coulter, M.P.	Treatment with pitomen of the radiation syndrome in dogs.	5/29/53
UR-260 p.46-50	Coulter, M.P. Miller, R.W.	Treatment with successive antibiotics of the acute radiation syndrome.	5/29/53
UR-260 p.51-58	Miller, R.W. Coulter, M.P.	The use of whole blood in the treatment of the acute radiation syndrome in dogs: a review of experimental work.	5/29/53
UR-268 p.9	Coulter, M.P.	The effect of a soft diet on radiation illness in the dog.	9/ 2/53
UR-276	Coulter, M.P. Miller, R.W.	Treatment with successive antibiotics of dogs exposed to total body x-irradiation.	9/ 8/53
UR-279	Schlesinger, M.J.	The effect of a protein free diet on recovery from x-irradiation injury in the rat.	9/11/53
UR-311 p.10-21	Michaelson, S.	The effects of various treatments on the acute radiation syndrome in dogs.	2/ 9/54
UR-434	Michaelson, S. Howland, J.W. Koszalka, J.M. DeBottis, D.J. Konnerth, A.	The use of vitamin fortified antibodies in the therapy of the acute radiation syndrome in dogs. (<u>Antibiotics Ann. 1955-56: 283-94, 1956</u>)	3/15/56
UR-452 AF-SAM- 57-42	Benson, R.E. Michaelson, S. Howland, J.W.	Failure of S, β -aminoethylisothiuronium. Br.HBr. to protect against lethal total body x-irradiation in dogs.	6/29/56
	Swisher, S.N. Furth, F.W.	Effect of early small exchange transfusion on the x-irradiated dog. (<u>Proc. Soc. Exptl. Biol. Med. 78: 226, 1951</u>)	

EXTERNAL RADIATION - PROTECTIVE AND THERAPEUTIC MEASURES

- Howland, J.W. Current concepts of therapy of the radiation syndrome. (J. Missouri State Med. Assoc.: 425-9, 1952)
- Smith, W.W. Effects of dietary protein and methionine on the x-irradiated rat. (Am. J. Physiol. 169: 491-8, 1952)
- Ackermann, I.B.
Alderman, I.M.
- Michaelson, S.M. Bleeding time studies after dextran infusions in normal and irradiated dogs. (Federation Proc. 15: 129-30, 1956)
- Konnerth, A.
Howland, J.W.
- Michaelson, S.M. Effective roentgen reduction: an index of antibiotic therapy of the acute radiation syndrome. (Antibiotics Ann. 1956-57: 936-41, 1957)
- Howland, J.W.
- Schlesinger, M.J., Jr. The effect of a protein free diet on recovery from x-irradiation injury in the rat. (Thesis) 1953
- Harris, M.D., Jr. A study of chemical protection against single and fractionated whole body x-irradiation in the rat. (Thesis) 1960
- AECU-748 Howland, J.W. The effect of aureomycin and antibiotics on whole body irradiation. (Federation Proc. 9: 334-5, 1950) (Nuclear Sci. Abstr. 4: 550, 1951)
- Furth, F.W.
Coulter, M.P.

FLASH BURNS

UR-79 AECU-407	Payne, J.T. Hogg, L. Pearse, H.E.	The experimental study of flash burns. (<u>A.M.A. Arch. Pathol.</u> 49: 267-77, 1950)	6/ 3/49
UR-96 p.35-56	Kingsley, H.D. Hogg, L. Pearse, H.E. DeLalla, V. Blakney, R.M. Davis, T.	[Continued studies of flash burns.] Biological effects of external radiation (infrared and ultra-violet).	11/ 3/49
UR-174 p.52-64	Morton, J.H. Kingsley, H.D. Pearse, H.E.	Studies on flash burns: threshold burns. (<u>Surg. Gynecol. Obstet.</u> 94: 317-22, 1952)	7/31/51
UR-174 p.65-97	Morton, J.H. Kingsley, H.D. Pearse, H.E.	Studies on flash burns: the protective effects of certain fabrics. (<u>Surg. Gynecol. Obstet.</u> 94: 497-501, 1952)	7/31/51
UR-174 p.98-103	Williams, D.B. Murden, C.H.	Biochemical studies on the flash burn: a device for the removal of uniform samples of skin in the frozen state.	7/31/51
UR-217	Perkins, J.B. Kingsley, H.D. Pearse, H.E.	A study of radiant energy burns: the effect of exposure time and intensity.	12/ /52
UR-222 p.42-49	Berkley, K.M. Pearse, H.E. Kingsley, H.D.	Studies of flash burns: the influence of spectral qualities of the carbon arc source.	11/ 3/52
UR-226	Davis, T.P. Krolak, L.J. Blakney, R.M.	Studies of flash burns: the carbon arc source.	11/28/52
UR-254	Kingsley, H.D. Pearse, H.E.	Thermal burns from the atomic bomb. (<u>Surg. Gynecol. Obstet.</u> 98: 385-94, 1954)	4/30/53
UR-254 Rev.	Pearse, H.E. Kingsley, H.D.	Thermal burns from the atomic bomb. (<u>Surg. Gynecol. Obstet.</u> 98: 385-94, 1954)	12/ 9/53

FLASE BURNS

UR-260 p.29-43	Mixter, G., Jr. Krolak, L.J.	Critical energy of fabric as indicated by its persistence time under thermal radiation.	5/29/53
UR-261	Mixter, G., Jr. Pearse, H.E.	Studies on flash burns: the protection afforded by 2, 4 and 6 layer fabric combinations.	6/ 4/53
UR-283	Berkley, K. Davis, T.	Studies on flash burns: the influence of wave length on the production of burns in the pig.	9/30/53
UR-316	Mixter, G., Jr.	The empirical relation between time and intensity of applied thermal energy in production of 2+ burns in pigs.	3/ 2/54
UR-330 p.4-12	Davis, T.P. Krolak, L.J. Basso, J.A.	A tungsten source suitable for producing flash burns.	5/10/54
UR-334	Berkley, K.M. Davis, T.P.	Study on flash burns: evaluation of simultaneous monitoring of the carbon arc source.	7/ 1/54
UR-335	Berkley, K.M.	Study on flash burns: the influence of ultraviolet radiation on the production of cutaneous burns.	7/ 1/54
UR-336	Berkley, K.M. Davis, T.P. Pearse, H.E.	Study on flash burns: the effect of spectral distribution on the production of cutaneous burns.	7/13/54
UR-337	Berkley, K.M.	Study on flash burns: evaluation of surface appearance of burns by depth of damage.	7/13/54
UR-338	Berkley, K.M. Pearse, H.E. Davis, T.P.	Studies of flash burns: the influence of skin temperature in the production of cutaneous burns.	8/ 5/54

FLASH BURNS

UR-353	Mixter, G., Jr. Davis, T.P.	An evaluation of black polyethylene as a skin simulant under fabrics exposed to thermal radiant energy.	9/ 9/54
UR-354	Mixter, G., Jr.	Studies on flash burns: Further report on the protective qualities of fabrics.	10/27/54
UR-355	Mixter, G., Jr. Pearse, H.E.	The influence of exposure time and irradiance on the thermal protective qualities of two fabric assemblies.	11/16/54
UR-384	Mixter, G., Jr.	Thermal protectivity of a light poncho material.	3/29/55
UR-385	Mixter, G., Jr.	A comparison between bare and blackened porcine skin in response to pulses of high intensity radiant thermal energy.	3/29/55
UR-386	Mixter, G., Jr. Davis, T.P. Pearse, H.E.	The sub-fabric flash burns: Quantative effective on protectivity of fabric reflectance, fabric weight and exposure time.	6/ 6/55
UR-387	Mixter, G., Jr. Davis, T.P.	A method of producing thermal energy pulses from a carbon arc source.	6/ 6/55
UR-388	Mixter, G., Jr. Krolak, L.J.	Studies of flash burns: the influence of transmittance of fabrics on protectivity.	6/10/55
UR-394	Lyon, J.L. Davis, T.P. Pearse, H.E.	Studies of flash burns: the relation to thermal energy and exposure time to burn severity.	5/24/55
UR-398	Mixter, G., Jr.	The sub-fabric flash burn; a study of cover factor in its effect on protectivity of cotton oxfords.	6/30/55

FLASH BURNS

UR-399	Mixter, G., Jr.	Studies of flash burns: an investigation of the effectiveness of the "tail" of a simulated field pulse in the production of skin burns in pigs.	7/18/55
UR-401	Lyon, J. Emery, A. Pearse, H.E. Davis, T.	The relationship of thermally induced hemoglobinemia to volume of skin burn.	6/30/55
UR-418	Davis, T.P. Hinshaw, J.R. Pearse, H.E.	A comparison of the effects on bare porcine skin of radiant energy delivered in the forms of square and simulated field pulses.	12/21/55
UR-422	Bales, H.W. Roth, R.E. Pearse, H.E.	Studies on flash burns: the screening effect of fabric at a distance from animals.	1/31/56
UR-433	Hinshaw, J.R.	Some effects of superimposing two radiant energy thermal burns on bare porcine skin.	3/20/56
UR-435	Roth, R.E. Bales, H.W. Pearse, H.E.	A method for the safe firing of magnesium powder to produce large area flash burns.	6/12/56
UR-436	Bales, H.W. Roth, R.E. Krolak, L.J. Pearse, H.E.	Evaluation of magnesium powder as a source for the production of large area flash burns on pig skin.	4/26/56
UR-438	Bales, H.W. Hinshaw, J.R. Pearse, H.E.	A comparison of the effects of radiant thermal energy on bare, blackened and whitened pig skin.	7/ 3/56
UR-439	Krolak, L.J.	The measurement of diffuse reflectance of pig skin, titanium dioxide paint and India ink; the transmittance of titanium dioxide and India ink.	5/31/56
UR-440	Hinshaw, J.R. Bales, H.W. Pearse, H.E.	The relationship between surface grade and depth of damage of burns produced by radiant thermal energy.	4/10/56

FLASH BURNS

UR-449	Hinshaw, J.R. Pearse, H.E.	Histological techniques for the differential staining of burned and normal tissues.	6/15/56
UR-451	Hinshaw, J.R.	The irradiance dependency of exposure time as a factor in determining the severity of radiant thermal burns.	6/27/56
UR-453	Davis, T.P.	The carbon arc image furnace. (High Temperature Symposium, University of Calif., Berkeley, Calif., June 25-27, 1956)	7/10/56
UR-464	Bales, H.W. Hinshaw, J.R. Pearse, H.E. Basso, J.A.	The hazard of using the government issue cream for protection against flash burns.	10/18/56
UR-481	Roth, R.E. Hinshaw, J.R.	Flash burn studies: limitations of a 2+ median effective exposure scaling law.	2/28/57
UR-486	Payne, F.W. Hinshaw, J.R.	Some effects of variation in exposure time and input pulse shape in the production of radiant energy thermal burns.	4/26/57
UR-488	Payne, F.W. Hinshaw, J.R.	Some effects of thickness of the layer in protection against burns by creams.	5/29/57
UR-489	Payne, F.W. Hinshaw, J.R. Pearse, H.E.	Protection from radiant thermal energy by fabrics used as a shield.	6/ 5/57
UR-490	Berkley, K.M.	The effect of air space on sub-fabric burns in swine.	6/14/57
UR-493	Berkley, K.M.	Studies on small area sub-fabric flash burns.	10/31/57
UR-494	Berkley, K.M. Pearse, H.E.	Studies on large area sub-fabric burns.	8/14/57
UR-509	Payne, F.W. Hinshaw, J.R.	Further studies on the relationship between exposure time and depth of damage of moderate and severe cutaneous burns.	1/15/58

FLASH BURNS

UR-514	Payne, F.W. Hinshaw, J.R.	Histologic studies of the early healing process in moderate second degree burns.	2/12/58
UR-518	Hinshaw, J.R. Pearse, H.E.	The effects of some locally applied medications on the healing of second degree burns.	2/25/58
UR-523	Berkley, K.M.	The relationship between the surface appearance and depth of damage of subfabric and bare skin burns produced by radiant thermal energy.	4/ 8/58
UR-532	Berkley, K.M.	Studies on large area sub-fabric burns. The effect of (1) reflectance and separation of fabric, and (2) treatment with fire-retardant material.	10/13/58
UR-533	Lerman, B. Hinshaw, J.R.	Relationships between burn severity and the simulated thermal pulses of various nuclear weapons.	10/20/58
UR-537	Lerman, B. Hinshaw, J.R.	Some attempts to modify the early healing process of moderate second degree burns.	1/30/59
UR-538	Berkley, K.M.	Studies on sub-fabric burns: the relationship of surface appearance and depth of damage; a method of study, preliminary results, and observations of wound healing.	2/11/59
UR-539	Berkley, K.M.	Studies on large area sub-fabric burns: the effect of an air space between a two layer system.	3/ 4/59
UR-546	Barner, H. Hinshaw, J.R.	Effects from the tail of simulated nuclear weapon thermal pulses.	5/ 8/59

FLASH BURNS

- UR-548 DeMott, D.W. An experimental study of 5/28/59
Davis, T.P. retinal burns: Part I. The irradiance thresholds for chorio-retinal lesions. Part II. Entoptic scatter as a function of wave length. (Part I - A.M.A. Arch. Ophthalmol. 62: 653-6, 1959)
- UR-553 Davis, T.P. A theoretical and experimental 7/ 8/59
investigation of the temperature response of pig skin exposed to thermal radiation.
- Pearse, H.E. Experimental study of flash-
Payne, J.T. burns. (Ann. Surg. 130: 774-89, 1949)
Hogg, L.
- Pearse, H.E. Mechanical and thermal injury
Payne, J.T. from the atomic bomb. (New Engl. J. Med. 241: 647-53, 1949)
- Morton, J.H. Thermal burns from an atomic
Kingsley, H.D. explosion. (N. Y. State J. Med. 51: 2221-2, 1951)
- Davis, T.P. Modification of the carbon
Krolak, L.J. arc searchlight for producing
Blakney, R.M. experimental flashburns.
Pearse, H.E. (J. Opt. Soc. Am. 45: 766-9, 1954)
- Davis, T.P. Tungsten lamp source suitable
Krolak, L.J. for producing flash burns.
Basso, J.A. (J. Opt. Soc. Am. 45: 397-8, 1955)
- Hinshaw, J.R. An experimental study of the
degeneration and regeneration
of nerve fibers following a
burn. (Surg. Gynecol. Obstet. 103: 31-39, 1956)
- Hinshaw, J.R. Histological techniques for the
Pearse, H.E. differential staining of burned
and normal tissues. (Surg. Gynecol. Obstet. 103: 726-30, 1956)

FLASH BURNS

- Lyon, J.L.
Emery, A.J.
Davis, T.P.
Pearse, H.E. The relationship of thermally induced hemoglobinemia to volume of skin burn. (Surgery 40: 234-46, 1956)
- Pearse, H.E. Thermal injuries of nuclear warfare. (Military Med. 118: 274-8, 1956)
- Hinshaw, J.R. Histologic studies of burns. (Abstract. Mechanical Engineering 79: 1035-6, 1957)
- Hinshaw, J.R.
Pearse, H.E. The feasibility of investigating the effect of local medication on burn healing. (Surgery 44: 886-91, 1958)
- Hinshaw, J.R. Late histologic changes in healing in burns. (Abstract. Federation Proc. 17: 440, 1958)
- Davis, T.P. The temperature response of skin exposed to penetrating and non-penetrating radiation. (Appeared in "Digest of Technical Papers", 12th Annual Conference of Electrical Techniques in Medicine and Biology, Phila., Pa., 1959, pp. 90-91.)
- Davis, T.P.
Pearse, H.E. Use of carbon arc and burning magnesium as thermal sources for experimental burns. (Ann. Surg. 149: 68-76, 1959)
- Goldman, M.
Tuttle, L.W. Radiation and hormone effects upon lymphocyte release from isolated perfused dog spleens. (Int. J. Radiat. Biol. 1: 403-13, 1959)

HEMATOLOGY

M-1524	Wantman, M.J.	Memo, tables, and charts of the effect of daily doses of 10 r on blood counts of rats, mice, dogs, and monkeys.	7/ 7/44
M-1599	Valentine, W.N.	Leukemia.	
M-1604	Valentine, W.N.	Aplastic anemia.	1/22/45
M-1829	Tiedeman, D.V. Suter, G.M. Wantman, M.J.	The error of determination of erythrocytes, hemoglobin, leucocytes, absolute neutrophils, and absolute lymphocytes.	1/ /46
M-1972 MDDC-1076	Craddock, C.G., Jr. Lawrence, J.S.	Hemophilia. A report of the mechanism of the development and action of an anti-coagulant in two cases.	6/ 3/47
M-1998 MDDC-1074	Adams, W.S. Lawrence, J.S.	Folic acid therapy. Results of a clinical study.	6/12/47
M-2002 p.21-24	Rekers, P.E.	Marrow transplantation.	11/15/47
M-2004 MDDC-1570	Valentine, W.N. Craddock, C.G., Jr. Lawrence, J.S.	The lymphocyte. Relation of adrenal cortical hormone to lymphoid tissue and lymphocytes. (<u>Blood</u> 3: 729-54, 1948)	11/29/47
M-2007 MDDC-1538	Adams, W.S. Lawrence, J.S.	The negative effect of folic acid on irradiation leukopenia in the cat.	10/29/47
M-2011 MDDC-1698	Craddock, C.G., Jr. Lawrence, J.S.	The effect of roentgen irradiation on antibody formation in rabbits.	1/16/48
M-2013 MDDC-1763	Rekers, P.E.	The cultivation of the hematopoietic tissues by tissue culture methods.	1/19/48

HEMATOLOGY

UR-9 AECD-1925	Rekers, P.E. Coulter, M.P.	A hematological and histological study of the bone marrow and peripheral blood of adult dog. (<u>Am. J. Med. Sci. 216: 643-55, 1948</u>)	2/19/48
UR-11 AECD-1966	Rekers, P.E.	Transplantation of bone marrow into dogs that have received total body single dose radiation. (<u>A.M.A. Arch Surg. 60: 635-67, 1950</u>)	2/13/48
UR-14 AECD-1924	Valentine, W.N. Lawrence, J.S.	Studies on blood histamine; partition of blood histamine before and after clotting in health and disease states. (<u>Am. J. Med. Sci. 216: 619-24, 1948</u>)	3/15/48
UR-16 AECD-2023	Valentine, W.N. Craddock, C.G. Lawrence, J.S.	The effect of roentgen radiation on the production of thoracic duct lymphocytes. (<u>Am. J. Med. Sci. 217: 379-82, 1949</u>)	3/19/48
UR-21 p.27-28	Valentine, W.N.	Failure to relieve thrombopenia by massive transfusion.	4/23/48
UR-22 AECD-2016	Lawrence, J.S. Valentine, W.N. Adams, W.S.	Thrombopenic purpura; the failure of direct blood transfusion to raise the platelet level. (<u>J. Lab. Clin. Med. 33: 1077-81, 1948</u>)	4/15/48
UR-25 AECD-2006	Adams, W.S. Lawrence, J.S.	The production of leukopenia by chronic irradiation of the abdominal viscera of the cat.	4/30/48
UR-32 AECD-2095	Craddock, C.G., Jr. Valentine, W.N. Lawrence, J.S.	The lymphocyte: studies on its relationship to immunologic processes in the cat. (<u>J. Lab. Clin. Med. 34: 158-77, 1949</u>)	5/24/48

HEMATOLOGY

UR-70 p.24-26	Ingram, M.	Preliminary report of an unusual finding in the blood of cyclotron workers.	4/25/49
UR-99	Davis, R.W. Dole, N. Izzo, M.J. Young, L.E.	"Hemolytic" effect of radiation. (<u>J. Lab. Clin. Med.</u> 35: 528-37, 1950)	11/15/49
UR-121	Ingram, M. Mason, W.B.	The effects of chronic exposure to roentgen radiation on the peripheral blood of experimental animals. (NNES Div. VI, Vol. 2, Chap. 11)	7/17/50
UR-122	Ingram, M. Mason, W.B.	The effects of acute exposure to roentgen radiation on the peripheral blood of experimental animals. (NNES Div. VI, Vol. 2, Chap. 3)	7/17/50
UR-127 p.28-31	Furth, F.W. Shrier, J.	Effect of aureomycin on coagulation time.	8/ 1/50
UR-127 p.38-40	Ingram, M.	The incidence of unusual lymphocytes in the blood of dogs exposed to radiation from the 130 inch cyclotron.	8/ 1/50
UR-137	Ingram, M. Barnes, S.W.	Experimental confirmation of a previously reported unusual finding in the blood of cyclotron workers. (<u>Science</u> 113: 32-34, 1951)	10/10/50
UR-141*	Furth, F.W. Shrier, J. Howland, J.W.	Effect of aureomycin on coagulation time.	11/ 2/50
UR-152 p.59-64	Ingram, M.	The occurrence of lymphocytes with bilobed nuclei in cyclotron personnel.	2/ 1/51

*Internal report only.

HEMATOLOGY

UR-159	Rekers, P.E. Salisbury, P. Miller, J. Marti, N. Papageorge's, N., Jr.	Cross circulation studies on the irradiated dog.	3/30/50
UR-189 p.8-15	Ingram, M. Coonan, L. Jespersen, J. Nielsen, G. Piatt, D. Wright, M.	Cytological studies on the blood of Sally, an Indian elephant.	10/25/51
UR-200 p.36-53	Ingram, M. Nielsen, G. Piatt, D.	Bone marrow studies on spleen shielded and non-shielded dogs exposed to an LD90-100 dose of x-rays.	2/11/52
UR-205 p.48-56	Ingram, M. Adams, M.	Studies relative to the phagocytic activity of leukocytes in irradiated dogs.	5/14/52
UR-211	Ingram, M. Adams, M. Coonan, L. Jespersen, J. Nielsen, G. Piatt, D. Yettewich, G.	The occurrence of lymphocytes with bilobed nuclei in cyclotron personnel. (<u>Science</u> <u>116</u> : 706-8, 1952)	6/16/52
UR-213 p.66	Hurwitz, L. DiStefano, V.	Effect of EPN (ethyl p-nitrophenyl thionobenzene- phosphonate) on human red blood cell cholinesterase. (<u>Federation Proc.</u> <u>11</u> : 359, 1952)	7/31/52
UR-260 p.59-62	Petropoulos, M.C. Altman, K.I. Salomon, K.	The metabolism of stroma in the rabbit.	5/29/53

HEMATOLOGY

UR-268 p.20	Altman, K.I. Russel, E.R. Salomon, K. Scott, J.K.	Chemopathology of hemoglobin synthesis in mice with hereditary anemia. (Abstract. <u>Federation Proc. 12: 168, 1953</u>)	9/ 2/53
UR-277	Ingram, M. Struthers, A. Piatt, D. Welton, J. Yettewich, G.	Further studies on a procedure for determining phagocytic activity of leukocytes in whole blood by incubation with saccharated iron.	9/ 8/53
UR-290 p.19-20	Ingram, M. Struthers, A. Welton, J.	Preliminary studies to determine whether piromen has a direct phagocytosis promoting effect on leukocytes.	11/10/53
UR-290 p.20-33	Altman, K.I. Swisher, S.N.	Some aspects of stroma metabolism as studies with $OC-C^{14}$ -acetate.	11/10/53
UR-319	Richmond, J.E. Salomon, K.	Studies on the biosynthesis of hemin. I. Bone marrow. (Part of thesis by Richmond)	6/18/54
UR-333	Ingram, M. Yettewich, G. Struthers, A.	Concentration of leukocytes from small samples of blood by centrifugation in plastic tubing.	6/16/54
UR-339	Bruce, A.	Organic synthesis of carbon-14 labeled hematoporphyrin dimethyl ester. (Thesis)	6/17/54
UR-348 p.31	Prankerd, T.A.J. Altman, K.I.	Phosphate metabolism in normal and pathological mammalian erythrocytes. (<u>Federation Proc. 13: 113, 1954</u>)	8/26/54
UR-349*	Prankerd, T.A.J. Altman, K.I.	A study of the metabolism of phosphorus in mammalian red cells. (<u>Biochem. J. 58: 622-33, 1954</u>)	

*Journal publication only.

HEMATOLOGY

- UR-350* Prankerd, T.A.J. The effect of adenosine on the phosphate exchange in mammalian red blood cells. (Biochim. et Biophys. Acta 15: 158-9, 1954)
Altman, K.I.
- UR-351* Altman, K.I. The reduction of methemoglobin by a reductase isolated from brewer's yeast. (Biochim. et Biophys. Acta 15: 155-6, 1954)
- UR-358* Prankerd, T.A.J. Electrophoresis of human red-cell stroma. (Nature 174: 1146, 1954)
Altman, K.I.
Anderson, J.R.
- UR-369* Altman, K.I. Incorporation of acetate-2-¹⁴C into human erythrocyte stroma as a function of storage. (Nature 174: 459, 1954)
Swisher, S.N.
- UR-371* Prankerd, T.A.J. Abnormalities in carbohydrate metabolism of red cells in hereditary spherocytosis. (Abstract. J. Clin. Invest. 33: 957, 1955)
Altman, K.I.
Young, L.E.
- UR-467 Ingram, M. Some contributions of leukocyte balance studies to leukocytapheresis. 11/ 8/56
- UR-498 McKane, A. A method for concentrating leukocytes. 6/27/57
Ingram, M.
- UR-511 Goldman, M. Hormone induced lymphocyte release from the isolated perfused dog spleen. (Abstract. Radiation Research 9: 120, 1958)
Tuttle, L.W.
- UR-524 Dewey, W.C. Amount of plasma proteins and red blood cells and the vascular-extravascular exchange of plasma proteins in the rat, as measured with I¹³¹ and Cr⁵¹ labels. (Thesis) 7/ 1/58
- Field, J.B. Prothrombin activity in rats with mammary tumors. (Cancer Research 8: 172-6, 1948)

*Journal publication only.

HEMATOLOGY

- Young, L.E.
Ervin, D.M.
Christian, R.M.
Davis, R.W. Hemolytic disease in newborn dogs following isoimmunization of the dam by transfusions. (Science 109: 630-1, 1949)
- Davis, R.W.
Christian, R.M.
Ervin, D.M.
Young, L.E. Pernicious anemia in childhood. Report of a case in six year old girl responding to refined liver extract, folic acid and vitamin B₁₂ in successive relapses. (Blood 4: 1361-6, 1949)
- Altman, K.I.
Watman, R.N.
Salomon, K. The incorporation of α -C¹⁴-acetate into the stroma of the erythrocyte. (Arch. Biochem. Biophys. 33: 168-9, 1951)
- Altman, K.I.
Watman, R.N.
Salomon, K. Surgically induced splenogenic anemia in the rabbit. (Nature 168: 827-8, 1951)
- Watman, R.N.
Altman, K.I.
Salomon, K. Surgically induced splenogenic anemia in the rabbit. (Am. J. Physiol. 167: 835, 1951)
- Altman, K.I. The in vitro incorporation of α -C¹⁴-acetate into the stroma of the erythrocyte. (Arch. Biochem. Biophys. 42: 478-80, 1953)
- Altman, K.I.
Miller, G. A disturbance of tryptophan metabolism in congenital hypoplastic anaemia. (Nature 172: 868, 1953)
- Altman, K. The effect of adenosine on the phosphate exchange in mammalian red blood cells. (Biochim. et Biophys. Acta 15: 158-9, 1954)

HEMATOLOGY

- Prankerd, T.A.J. Phosphate partition and
Altman, K.I. turnover in human red cells.
(Nature 173: 870, 1954)
- Young, L.E. Studies on spontaneous in
Izzo, M.J. vitro autohemolysis in
Altman, K.I. hemolytic disorders. (Blood 11:
Swisher, S.N. 977-97, 1956)
- Dewey, W.C. Vascular-extravascular exchange
of I^{131} rabbit gamma globulin
in organs and tissues of the rat.
(Abstract. Federation Proc. 16:
30, 1957)
- Michaelson, S.M. Combined effect of dextran and
Howland, J.W. anticoagulants in the normal
dog. (Federation Proc. 16:
366, 1957)
- Altman, K.I. Some enzymologic aspects of
the human erythrocyte. (Am.
J. Med. 27: 938-52, 1959)
- Dewey, W.C. Vascular-extravascular exchange
of I^{131} plasma proteins in the
rat. (Am. J. Physiol. 197: 423-
31, 1959)
- Goldman, M. Radiation and hormone effects
Tuttle, L.W. upon lymphocyte release from
isolated perfused dog spleens.
(Int. J. Radiat. Biol. 1: 403-
13, 1959)
- Dewey, W.C. Distribution and hematocrit
ratios of blood in the rat.
(Am. J. Physiol. 198: 1011-3
1960)
- Thomson, R.A.E. Leukocyte changes in normal
Michaelson, S.M. dogs exposed to microwaves.
Howland, J.W. (Abstract. Federation Proc. 19:
71, 1960)

INDUSTRIAL HYGIENE - INSTRUMENTS AND METHODS

- UR-534 Leach, L.J. A multiple chamber exposure 10/ 3/58
 Spiegl, C.J. unit designed for chronic
 Wilson, R.H. inhalation studies. (Am.
 Sylvester, G.E. Ind. Hyg. Assoc. J. 20:
 Lauterbach, K.E. 13-22, 1959)
- Frank, P. Efficiency of filter paper
 Laskin, S. method. (Ind. Hyg. Newsletter,
 Wilson, R.H. July, 1950)
- Morrow, P.E. Pneumotachographic studies in
 Vosteen, R.E. man and dog incorporating a
 portable wireless transducer.
 (J. Appl. Physiol. 5: 348-60,
 1953)
- Lauterbach, K.E. A new design of filter holder
 Wilson, R.H. for aerosol sampling.
 Leach, L.J. (The Encyclopedia on Instru-
 Spiegl, C.J. mentation for Industrial
 Hygiene. University of Michigan.
 1955)
- MDDC-1500 Laskin, S. Modified Cascade Impactor 10/13/47
 (drawings)

Monthly Progress Reports from June 15, 1943 thru June, 1947 may be found listed in UR-212, Index of Reports and Publications by the University of Rochester Atomic Energy Project.

QUARTERLY TECHNICAL REPORTS

<u>REPORT NUMBER</u>	<u>PERIOD COVERED</u>
M-2002	July 1 to September 30, 1947
M-2012	October 1 to December 31, 1947
UR-21	January 1 thru March 31, 1948
UR-38	April 1 to June 30, 1948
UR-45	July 1 to September 30, 1948
UR-60	January 1 thru December 31, 1948
UR-70	January 1 thru March 31, 1949
UR-87	April 1 thru June 30, 1949
UR-96	July 1 thru September 30, 1949
UR-103	October 1 thru December 31, 1949
UR-116	January 1 thru March 31, 1950
UR-127	April 1 thru June 30, 1950
UR-142	July 1 thru September 30, 1950
UR-152	October 1 thru December 31, 1950
UR-164	January 1 thru March 31, 1951
UR-174	April 1 thru June 30, 1951
UR-189	July 1 thru September 30, 1951
UR-200	October 1 thru December 31, 1951
UR-205	January 1 thru March 31, 1952

QUARTERLY TECHNICAL REPORTS

<u>REPORT NUMBER</u>	<u>PERIOD COVERED</u>
UR-213	April 1 thru June 30, 1952
UR-222	July 1 thru September 30, 1952
UR-242	October 1 thru December 31, 1952
UR-260	January 1 thru March 31, 1953
UR-268	April 1 thru June 30, 1953
UR-290	July 1 thru September 30, 1953
UR-311	October 1 thru December 31, 1953
UR-330	January 1 thru March 31, 1954
UR-348	April 1 thru June 30, 1954

The numbered Quarterly Technical Reports given Project-wide distribution were discontinued with UR-348 and replaced by an unnumbered Quarterly Review which was distributed to New York and Washington AEC offices only.

RADIATION INSTRUMENTS AND DOSIMETRY

M-1525A AECD-2278	Dessauer, G. Lennox, E.	Photographic neutron dosimetry to date.	7/14/44
M-1525E MDDC-1484	Dessauer, G.	A portable micro-r meter. Report on its development and description of its final form.	7/14/44
M-1535	Enns, T.	Ion chamber - electrometer for alpha particle determination.	
M-1552	Bale, W.F.	Report on Instrument Meeting in Eckhard Hall, Chicago, September 14-15, 1944.	9/26/44
M-1560	Gilda, J.E.	Directions for operation of Picker-Waite x-ray diffraction unit.	
M-1578	Dessauer, G.	Film monitoring of gamma rays on human body. Report on laboratory experiments and practical experiences at a certain warehouse.	11/ 2/44
M-1603 MDDC-1651	Bale, W.F.	Rochester ion meter. Construc- tion and operation details.	1/18/45
M-1610	Bonner, J.F. Esler, F.	Portable Geiger-Mueller counter. Design and construction detail.	1/22/45
M-1656 AECD-1973	Dessauer, G. Rouvina, J.	Photographic neutron dosimetry II.	3/28/45
M-1771	Bonner, J.F. Esler, F.L.	The use of Potter type scaling circuit for radiation counters.	9/25/45
M-1772 AECD-1972	Dessauer, G. Davis, K.E. White, F.A.	A radiation dose integrator of high sensitivity.	9/13/45
M-1773 AECD-1856	Dessauer, G. White, F.A. Rouvina, J.	A pressure ionization chamber for the measurement of neutron fluxes at tolerance level in portable instruments.	10/16/45

RADIATION INSTRUMENTS AND DOSIMETRY

M-1796	Esler, F. Bonner, J. Morcken, D.	Foil alpha counter.	12/10/45
UR-21 p.94	Mermagen, H.	An extension of monitoring badges for beta and gamma radiations.	4/23/48
UR-38 p.97-104	Mermagen, H.	Investigation of film behavior: preliminary report on the wavelength dependence of a photo-sensitive emulsion in terms of densities recorded for known radiation intensities.	7/15/48
UR-70 p.68-71	Mermagen, H.	[Wavelength dependence of three photographic emulsions]	4/25/49
UR-70 p.87-89	Mermagen, H.	[Differential ionization chambers for measurement of neutron flux]	4/25/49
UR-103 p.88-92	Mermagen, H.	Calculations of radium exposures for photographic sensitometry.	1/31/50
UR-127 p.75-82	Dahl, A.H.	Quality evaluation of x-ray beams by metal-walled ionization chambers.	8/ 1/50
UR-127 p.82-89	Kanwisher, J.W. Bale, W.F.	Ionizing radiation dosimeter.	8/ 1/50
UR-142 p.96-125	Whipple, G.H., Jr.	Fast neutron survey of the small cyclotron.	11/ 1/50
UR-152 p.76-99	Blakney, R.M. Davis, T.P. Krolak, L.J. Pearse, H.E.	Development of a copper sphere radiometer.	2/ 1/51
UR-160	Vyverberg, R.G.	A quenching circuit for Geiger-Mueller counting of carbon 14 as carbon dioxide. (Thesis).	3/27/51

RADIATION INSTRUMENTS AND DOSIMETRY

UR-164 p.96-97	Dahl, A.H. Vyverberg, R.G.	Use of commercially available G.M. tubes for counting C^{14} .	5/ 9/51
UR-164 p.98-102	Roberts, C.J.	Phantom dog measurements.	5/ 9/51
UR-167	Kanwisher, J.W.	A chemical dosimeter for ionizing radiations. (Thesis) (<u>Nucleonics 10: 62-4, 1952</u>)	8/29/51
UR-180	Hursh, J.B. Zizzo, S. Dahl, A.H.	Use of commercially available portable survey meters for emergency fission product monitoring of water supplies. (<u>Nucleonics 9: C-16 - C-20,</u> 1951)	8/ 3/51
UR-189 p.56-60	Zizzo, S.G.	A cadmium sulfide crystal detector mounted in hypodermic needle for <u>in vivo</u> radiation studies.	10/25/51
UR-241	Roberts, C.J. Dahl, A.H.	X-ray depth dose measurements in a phantom dog.	2/19/53
UR-250	Dahl, A.H.	Measurement of x-ray beam quality by the use of metal wall to "air" -wall chamber ratios. (Thesis)	4/30/53
UR-253	Rausa, G.J.	Comparison of the photographic effects produced by cadmium and rhodium after neutron bombardment with reference to personnel monitoring.	10/ 7/53
UR-294	Mercer, T.T.	Atmospheric monitoring for alpha emitters using molecular filter membranes. (<u>Arch. Ind. Hyg. Occupational Med. 10: 372-80, 1954</u>)	1/ 4/54
UR-348 p.9-14	Davis, T.P.	An electronic relay.	8/26/54

RADIATION INSTRUMENTS AND DOSIMETRY

UR-362	Davis, T.P.	An electronic relay. (Abstract-included in UR-348)	8/26/54
UR-367	Krolak, L.J. Davis, T.P.	A universal spectrophotometer for the measurement of the relative spectral distribution of the carbon arc source.	11/10/54
UR-381	Baum, J.W.	Neutron dosimetry - a review.	3/29/55
UR-525	Anderson, L.L.	Design studies directed toward a self-nulling balanced-chamber ion-current instrument. (Thesis)	4/ 1/59
	Zizzo, S.G. Platt, J.B.	Detection of x-ray quanta by a cadmium sulphide crystal counter. (<u>Phys. Rev. 76: 704-5,</u> 1949)	
	Bale, W.F.	The detection of radiation hazards: instruments and personnel. (<u>Radiology 56: 656-</u> 60, 1951)	
	Morcken, D.A.	Integral-phosphor counting of α -emitters. (<u>Health Physics 2:</u> 77-78, 1959)	
	Zizzo, S.G.	A cadmium sulfide crystal counter for <u>in vivo</u> detection of radio activity. (Thesis)	1951
	Woodsum, H.C.	The use of ionization chambers for health physics survey of the BNL 3 BEV proton-synchro- tron. (Work done at Brookhaven National Laboratory) (Thesis)	1953
	Barker, R.F.	Development of a neutron dosimeter for use in monitor- ing procedures. (Thesis)	1954

RADIATION INSTRUMENTS AND DOSIMETRY

	Davis, T.P.	A standard radiation calorimeter. (Thesis)	1954
	O'Brien, J.F.	The use of threshold detectors for neutron measurement at the BNL cosmotron. (Work done at Brookhaven) (Thesis)	1955
AECD-1789	Bale, W.F.	Operation manual for Rochester ion meter.	2/ 6/48
AECD-2142	Failla, G. Rossi, H.H. Clark, R.K. Bailey, N.	The measurement of tissue dose of ionizing radiation. I. Beta ray emitting isotopes uniformly distributed in a homogenous tissue.	11/10/47
MDDC-1420	Failla, G.	"Shielded contact" grounding key for electrometers.	10/14/47

RADIOACTIVITY, MEASUREMENTS OF

M-1510	Bale, W.F.	Gamma ray activity of UX ₁ , UX ₂ separated from uranium metal.	3/ /44
M-2012 p.48-49	Hursh, J.B.	Back-scatter from silver foil samples.	1/15/48
UR-56 AECU-107	Bonner, J.F., Jr.	The half-life of Be7.	1/19/49
UR-96 p.57-65	LaBelle, C.W.	The distribution of radioactivity in pile filter dust as a function of particle diameter.	11/ 3/49
UR-164 p.90-95	Mermagen, H.	Activities of samples of precipitation following Nevada tests.	5/ 9/51
UR-234	Jespersen, H., Jr.	The probability theory of Geiger-Muller counters. (Thesis)	1/12/53
UR-270	Vosteen, R.E.	A flexible aural indicating alpha survey instrument.	6/ 3/53
UR-294	Mercer, T.T.	Atmospheric monitoring for alpha emitters using molecular filter membranes (<u>Arch. Ind. Hyg. Occupational Med. 10: 372-80, 1954</u>)	1/ 4/54
UR-311 p.6-9	Spiegl, C.J. Eldredge, D.M.	Preliminary studies of the relationship of radioactivity to particle size of "fall-out" materials.	2/ 9/54
	Bale, W.F.	Determination of hard radiation, including preparation of samples. (Supplement to U. S. Naval Med. Bull. on preparation and measurement of isotopes and some of their medical aspects. March-April 1948, p. 100-3.)	

RADIOACTIVITY, MEASUREMENTS OF

- Rausa, G.J. Gamma dose rate from a Po-Be
source. (Nucleonics 12: 62,
1954)
- Zizzo, S.G. A cadmium sulfide crystal counter 1951
for in vivo detection of radio-
activity. (Thesis)

RESPIRATORS, TESTS OF

M-1512	Stokinger, H.E.	Tests of efficiency of respirators against uranium dusts.	4/11/44
M-1548	Stokinger, H.E.	Tests of efficiency of GMC canisters (for acid gases and organic vapors) in atmospheres of Compound 23 (Tribnol, Synthane) [boron trifluoride].	6/27/44
M-1555	Dygert, P. Sanford, R.A.C.	Tests of efficiency of 5 respiratory protective devices in atmospheres of 890 (Tribnol complex) [dimethyl ether boron trifluoride complex].	9/22/44
M-1580	Dygert, H.P. Oberg, H. Stokinger, H.E.	Relative efficiencies of the filter paper mask sampler and the glass electrostatic precipitator in determining the acceptability of respiratory protective devices in uranium dust atmospheres. Final report.	10/22/44
M-1588	Sanford, R.	Test of efficiency of a respiratory protective device against a toxic atmosphere of C-216 [fluorine].	11/11/44
M-1602	Stokinger, H.E.	Final report: UO ₂ F ₂ inhalation study. A 37-day study at a mean concentration of 12.2mg/m ³ of the A. Toxic effects of inhalation by laboratory animals. B. Tests of efficiency of respiratory protective devices.	8/ /44
M-1647	Sanford, R.	Tests of efficiency of five respiratory protective devices in atmospheres containing Tribnol [dimethyl ether boron trifluoride complex].	2/ /44

RESPIRATORS, TESTS OF

M-1648	Dygert, H.P. Cohenour, L.E. Tarbell, A.	Amount of uranium and C-216 [fluorine] retained in U.S. Army Assault Mask Canisters containing "Whitlerite" used for short periods in high concentrations of C-616 [UF ₆]	2/ /45
M-1649	Sanford, R.	Tests of efficiency of two respiratory protective devices in atmospheres of C-216 [fluorine].	2/ /45
M-1650	Sanford, R.	Tests of efficiency of 4 respiratory protective devices in atmospheres of UO ₂ F ₂ and HF produced by the hydrolysis of UF ₆ .	2/ /45
M-1654	Stokinger, H.E.	U ₃ O ₈ one-month study at a mean concentration of 17 mg/m ³ of the A. Toxic effects of inhalation by laboratory animals and B. Test of efficiency of respirators.	3/ /45
M-1676	Dygert, H.P. Oberg, H. Sanford, R.	Annual report. Tests of respiratory protective devices in atmospheres containing uranium and C-216 [fluoride] compounds.	1/ /45
M-1677	Stokinger, H.E.	UO ₂ . A 30-day study at a mean concentration of 22.0 mg per cubic meter. A. Toxic effects of inhalation by laboratory animals. B. Tests of efficiency of respiratory protective devices.	2/ /45
M-1697	Sanford, R.	Tests of efficiency of 3 mask canisters in atmospheres con- taining C-716 [perfluoro- heptane] and C-816 [perfluor- octane].	5/ /45

RESPIRATORS, TESTS OF

M-1904

Dygert, H.P.
Cberg, H.A.

A 34-day inhalation study
at a mean concentration of
21 mg of uranium nitrate
 $UO_2(NO_3)_2 \cdot 6H_2O$ and tests of
respiratory protective devices
in atmospheres of $UO_2(NO_3)_2 \cdot 6H_2O$.

9/ /46

TOXICITY OF BERYLLIUM

M-1996 AECD-1803	Hodge, H.C. et al.	Beryllium Symposium at the University of Rochester School of Medicine and Dentistry, 10 and 11 Dec- ember 1946.]	12/11/46
M-1996 part A	Hardy, H.L.	New clinical syndrome: delayed chemical pneumonitis occurring in workers exposed to beryllium compounds.	
M-1996 part B	Grier, R.S.	Acute pulmonary beryllium poisoning, six cases.	
M-1996 part C	Dailey, M.E.	A questionable case of beryllium poisoning.	
M-1996 part D	Turner, R.A.N.	Hazards of the beryllium industry.	
M-1996 part E	DeNardi, J.	Case histories and x-rays, lost-time records, descriptions of beryllium poisoning.	
M-1996 part F	Shilen, J.	Descriptions of certain processes and compounds involved in beryllium manufacture.	
M-1996 part G	Scott, J.K.	Thirteen case histories.	
M-1997	Hodge, H.C. et al.	Progress report of preliminary studies of beryllium toxicity.	9/ 1/47
M-1997 paper 3 MDDC-1237	Scott, J.K.	The pathological anatomy of acute experimental beryllium poisoning; peripheral blood changes resulting from intravenous administration of beryllium sulfate. (<u>A.M.A. Arch. Pathol.</u> 45: 354-9, 1948)	
M-1997 paper 4 MDDC-1233	Maynard, E.A. Downs, W.L. Hodge, H.C.	Certain aspects of the acute toxicity of beryllium following intraperitoneal injection.	

1131271

TOXICITY OF BERYLLIUM

M-1997 paper 5 MDDC-1234	Maynard, E.A. Downs, W.L. Hodge, H.C.	Preliminary data on rat feeding with beryllium.	
M-1997 paper 6 MDDC-1232	LaBelle, C.W. Cucci, M.R.	Preliminary studies in the toxicity of beryllium; the effect of intratracheal injection of beryllium in experimental animals.	
M-1997 paper 7 MDDC-1318	Sprague, G.F. LaBelle, C.W. Pettengill, A.G. Stokinger, H.E.	Initial studies of the inhalation toxicity of beryllium sulfate and beryllium metal fume.	
UR-21 p. 59	Scott, J.K.	BeSO ₄ Mist exposure - pathology.	4/23/48
UR-21 p.70-71	Neuman, W.F.	Distribution and excretion of beryllium.	4/23/48
UR-21 p.95-109	Howland, J.W.	Studies of patients with beryllium poisoning.	4/23/48
UR-21 p.60-69	Stokinger, H.E.	Acute and pilot in beryllium toxicity.	4/23/48
UR-21 p.72-81	Stokinger, H.E.	Changes in lipid patterns in beryllium poisoning - preliminary work.	4/23/48
UR-27 AECD-2280	Hodge, H.C. Howland, J.W. Laskin, S. Maynard, E.A. Neuman, W.F. Rothstein, A. Scott, J.K. Stokinger, H.E.	An outline of a beryllium program.	5/ 6/48
UR-31 AECD-2102	Sprague, G.F.	Initial studies of the inhalation toxicity of beryllium sulfate tetrahydrate dust.	5/17/48

TOXICITY OF BERYLLIUM

UR-35 AECD-2104	Allen, R. Bonner, G. Sparks, A. Neuman, W.F. Scott, J.K. Kosel, G.	The distribution and excretion of a soluble beryllium compound using Be ₇ as a tracer.	6/ 2/48
UR-38 p.45-47	Lauterbach, K. Laskin, S.	Particle surface area determinations of various grades of beryllium oxide.	7/15/48
UR-38 p.47-58	Sprague, G.F. Stokinger, H.E. LaBelle, C.W. Neuman, W.F. Allen, R.P. Maynard, E.A. Downs, W.L.	Concentration toxicity, intravenous injection. Pilot beryllium oxide. (grade "A") inhalation study. Acute, massive exposures to beryllium oxide and hydroxide. Acute toxicity of beryllium by intraperitoneal route. Acute toxicity by ingestion. Radiographic findings in tibial head. Chronic toxicity by ingestion. Effect of injected beryllium on number of offspring in rats.	7/15/48
UR-38 p.58-63	Spiegl, C.J. Stokinger, H.E. Ackerman, H. Neuman, W.F. Neuman, M.W. Rothstein, A. Hurwitz, L.	Change in blood lipid ratios as index of beryllium poisoning. Effect of superimposed beryllium exposure on tuberculosis in guinea pigs. Effect of beryllium on isolated cells. Mechanism of the deposition of beryllium in bone.	7/15/48
UR-38 p.105-32	Howland, J.W. Waterhouse, C. Keutmann, E.H. Bruce, R.A.	[Metabolic studies of patients with chronic pulmonary granulomatosis of beryllium workers.]	7/15/48

TOXICITY OF BERYLLIUM

UR-43 AECOD-2391	Bruce, R.A. Lovejoy, F.W., Jr. Brothers, G.B. Velasquez, T.	Observations on the causes of dyspnea in chronic pulmonary granulomatosis in beryllium workers. (<u>Am. Rev. Tuberc.</u> 59: 364, 1949)	10/20/48
UR-45 p.56-62	Ashenburg, N.J. Sprague, G.F. Stokinger, H.E.	The inhalation toxicity of beryllium sulfate hexahydrate mist in animals at a concentration of 10 mg/m ³ for 95 days. The combined effect of inhalation of hydrogen fluoride gas and beryllium sulfate aerosol in rats.	10/15/48
UR-45 p.62-65	Maynard, E.A. Downs, W.L.	Intraperitoneal injection, beryllium oxide suspensions. Intraperitoneal toxicity of beryllium oxide in rats. Pilot experiments on the oral toxicity in dogs of beryllium oxides.	10/15/48
UR-45 p.66	Neuman, W.F. Allen, R.P. Scott, J.K.	Distribution and excretion of beryllium using Be ⁷ as a tracer.	10/15/48
UR-45 p.66-68	Spiegl, C.J. LaFrance, L.J.	Changes in blood lipid ratios as an index of beryllium poisoning.	10/15/48
UR-45 p.68-71	Stokinger, H.E.	Rutin as a prophylactic and therapeutic agent in beryllium poisoning in dogs.	10/15/48
UR-63 AECU-154	Sprague, G. Meier, R. Pettengill, A. Smith, F. Scott, J. Stokinger, H.E.	Beryllium sulfate mist inhalation study at approximately 50 mg/m ³ .	2/16/49
UR-65 AECU-165	Sprague, G.F., Jr. Pettengill, A. Brown, B. Stokinger, H.E.	The inhalation toxicity of beryllium sulfate mist in animals at a concentration of 10 mg/m ³ for 95 days.	2/24/49

TOXICITY OF BERYLLIUM

UR-68 AECU-244	Stokinger, H.E. Ashenburg, N.J. DeVoldre, J. Scott, J.K. Smith, F.A.	The enhancing effect of the inhalation of hydrogen fluoride vapor on beryllium sulfate poisoning in animals. (<u>Arch. Ind. Hyg. Occupational Med. 1: 398-410, 1950</u>)	4/13/49
UR-70 p.32-35	Gosselin, R.	An observation on the colloidal nature of BeO in serum.	4/25/49
UR-70 p.35-39	Hall, R.H. Root, R.E. Stokinger, H.E.	Response of animals to inhalation of beryllium oxide.	4/25/49
UR-70 p.39-40	Maynard, E.A. Downs, W.L.	Acute intraperitoneal toxicity of beryllium acetate. Tooth changes following ingestion of a diet containing beryllium sulfate ($\text{BeSO}_4 \cdot 6\text{H}_2\text{O}$).	4/25/49
UR-70 p.41-45	Erickson, J.O. Spiegl, C.J.	Skin sensitization to beryllium compounds. Phospholipid and cholesterol analyses of red blood cells in acute experimental beryllium poisoning.	4/25/49
UR-70 p.72-81	Howland, J.W. Waterhouse, C. Keutmann, E.H. Bruce, R.A.	[Nitrogen metabolism in a patient with chronic beryllium poisoning - a three month study.]	4/25/49
UR-72 AECU-204	Allen, R.P. Bonner, G. Kosel, G.E. Neuman, W.F. Scott, J.K. Sparks, A.F.	The effect of added carrier on the distribution and excretion of soluble Be^{7} . (<u>J. Biol. Chem. 182: 291-8, 1950</u>)	5/11/49
UR-84 AECU-568	Hall, R.H. Ashenburg, N.J. Pettengill, A. Scott, J.K. Spiegl, C.J. Smith, F.A. Steadman, L.T. Laskin, S. Stokinger, H.E.	The inhalation toxicity of beryllium sulfate mist at a concentration of 1 mg/m^3 for 100 days.	6/25/49

TOXICITY OF BERYLLIUM

UR-87 p.26-29	Hall, R.H.	Toxicity of inhaled beryllium fluoride.	7/30/49
UR-87 p.29-40	Stokinger, H.E.	Production of anemia in acute experimental beryllium poisoning.	7/30/49
UR-96 p.71-73	Spiegl, C.J.	Changes in blood lipid ratios as an index of beryllium poisoning.	11/ 3/49
UR-96 p.73-76	Stokinger, H.E.	Beryllium content of tissues following recovery from acute experimental beryllium poisoning.	11/ 3/49
UR-101	Waterhouse, C. Keutmann, E.H. Howland, J.W.	Metabolic and cardio-respiratory studies on patients with beryllium granulomatosis.	11/18/49
UR-103 p.37-41	Hall, R.H.	Inhalation toxicity of beryllium fluoride mist.	1/31/50
UR-103 p.41-50	Stokinger, H.E. Root, R.E. Steadman, L.T.	Retention of beryllium following inhalation.	1/31/50
UR-103 p.51-54	Spiegl, C.J.	Changes in urinary uric acid: creatinine ratios as an index of beryllium poisoning.	1/31/50
UR-116 p.55-74	Hall, R.H. Stokinger, H.E. Root, R.E. Steadman, L.T. Stroud, C. Alling, E. Smith, F.A. Scott, J.K.	Animal inhalation exposure of BeF ₂ mist - 2 mg/m ³ .	4/27/50
UR-116 p.75-79	Stokinger, H.E. Root, R.E. Steadman, L.T.	Retention of beryllium in tissues following inhalation. II. Effect of diet on deposition and retention in rats.	4/27/50

TOXICITY OF BERYLLIUM

UR-118	Bruce, R.A. Lovejoy, F.W., Jr. Fu, N.G. Pearson, R.	Further observations on the pathological physiology of chronic granulomatosis associated with beryllium workers.	5/18/50
UR-125	Scott, J.	The experimental production of tolerance and osteosclerosis by repeated intravenous injections of beryllium sulphate.	7/17/50
UR-127 p.55-60	Smith, F.A. Stokinger, H.E. Steadman, L.T. Gardner, D.E.	Deposition of fluoride and beryllium in animal tissues following exposure to 2 mg BeF ₂ /m ³ .	8/ 1/50
UR-142 p.56-71	Stokinger, H.E. Steadman, L.T. Smith, F.A. Root, R.E.	BeF ₂ mist inhalation study in animals at 2 mg/m ³ .	11/ 1/50
UR-171	Underwood, A.L., Jr.	Studies on the renal excretion of beryllium. (<u>Proc. Soc. Exptl. Biol. Med.</u> 79: 97-9, 1952)	6/ 4/51
UR-174 p.104-16	Leach, L.J. Laskin, S. Lauterbach, K.E.	Experimental production and studies of a beryllium oxide fume.	7/31/51
UR-174 p.117-20	Gosselin, R.E.	The failure of hexametaphosphate to influence the renal excretion of radio-beryllium (Be ⁷).	7/31/51
UR-177	Hall, R.H. Steadman, L.T. Stroud, C.A. Scott, J.K. Smith, F.A. Stokinger, H.E.	Acute toxicity of inhaled beryllium. IV. Studies of beryllium fluoride at concentrations of 10 and 1 mg/m ³ .	7/17/51
UR-205 p.3-5	Root, R. Spiegl, C.J. Stokinger, H.E., et al.	Interim report on two-year experimental inhalation studies of Be SO ₄ at a level of 4 ug Be/m ³ .	5/14/52

TOXICITY OF BERYLLIUM

UR-213 p.53	Feldman, I. Neuman, W.F. Havill, J.R. Danley, R.A.	Concerning the role of citrate in the transport of beryllium by the blood. (Abstract)	7/31/52
UR-222 p.52	Spiegl, C.J.	Selected blood and urine changes in experimental beryllium poisoning. (Abstract. Am. Ind. Hyg. Assoc., Cincinnati, April 24, 1952)	11/ 3/52
UR-225	Spiegl, C.J. LaFrance, L.J. Ashworth, B.J.	Selected blood and urine changes in experimental beryllium poisoning. (Arch. Ind. Hyg. Occupational Med. 7: 319-25, 1953)	10/31/52
UR-246	Feldman, I. Havill, J.R. Neuman, W.F.	Physico-chemical studies of beryllium complexes. V. The state of beryllium in blood. (Arch. Biochem. Biophys. 46: 443-53, 1953)	3/17/53
UR-271	Downs, W.L.	The effects of parathyroid extract on the bone lesion induced by beryllium compounds.	9/11/53
UR-348 p.21	Downs, W.L. Maynard, E.A. Hodge, H.C.	The effects of parathyroid extract on the bone lesion induced by beryllium compounds. (Federation Proc. 13: 350, 1954)	8/26/54
UR-416	Downs, W.L. Armstrong, R.D. Maynard, E.A. Coye, R.B., Jr. Scott, J.K. Hodge, H.C. Kesel, R.C.	Beryllium granulomata in the skin of the pig.	3/23/56

TOXICITY OF BERYLLIUM

- Stokinger, H.E.
Spiegl, C.J.
Root, R.E.
Hall, R.E.
Steadman, L.T.
Stroud, C.A.
Scott, J.K.
Smith, F.A.
Gardner, D.E.
- Acute inhalation toxicity of beryllium. IV. Beryllium fluoride at exposure concentrations of one and ten milligrams per cubic meter. (Arch. Ind. Hyg. Occupational Med. 8: 493-506, 1953)
- Downs, W.L. 1953
The effects of parathyroid extract on the bone lesion induced by beryllium compounds. (Thesis)
- Armstrong, R.D. 1958
Sensitivity and inhalation studies on beryllium oxide fume. (Thesis)
- AECU-201
NYOO-53 Eisenbud, M.
Wanta, R.C.
Dustan, C.
Steadman, L.T.
Harris, W.B.
Wolf, B.S.
- Non-occupational berylliosis. (J. Ind. Hyg. Toxicol. 31: 282-94, 1949)
- AECU-744 Maynard, E.A.
Downs, W.L.
Scott, J.K.
- Bone and tooth lesions in the rat resulting from ingestion and intraperitoneal administration of beryllium compounds. (Federation Proc. 9: 338, 1950) (Nuclear Sci. Abstr. 4: 558, 1950)
- AECU-749 Stokinger, H.E.
Smith, F.A.
Spiegl, C.J.
Scott, J.K.
Stroud, C.A.
- Character of blood changes in acute experimental beryllium poisoning. (Nuclear Sci. Abstr. 4: 558, 1950)
- AECU-851 Stokinger, H.E.
Steadman, L.T.
Root, R.
- Retention of beryllium in animal tissues following inhalation of its salts. (Arch. Ind. Hyg. Occupational Med. 3: 422-3, 1951)

TOXICITY OF BERYLLIUM

M-355 Eisenbud, M. Environment studies in plants
Berghout, C.F. and laboratories using
Steadman, L.T. beryllium: the acute disease.
(J. Ind. Hyg. Toxicol. 30:
281-5, 1948)

TOXICITY OF FLUORINE AND FLUORIDES

M-1528	Dale, P.P.	Addition of non-toxic amounts of fluorine (1 ppm as NaF) in domestic waters to provide protection against dental caries.	7/25/44
M-1657	Orcutt, J.A.	Local effects produced by application of 890 [boron trifluoride dimethyl ether complex] to the skin.	3/ 8/45
M-1658	Orcutt, J.A.	The effects of the presence of 891 [BF ₃] on the progress of healing of wounds.	3/ 8/45
M-1661	Orcutt, J.A. Smith, N.B.	The nature of the C-216 [fluorine] burn.	3/13/45
M-1673	Weil, C.S. Dygert, H.P.	891 [BF ₃] dust. A 30-day study. Mean concentration - 72.7 mg/m ³ . A. Toxicity of inhalation in mice. B. Tests of efficiency of respirator filter BM-2148.	1/ /45
M-1678	Weil, C.S. Horton, C. Bleasdale, J. Bishop, C.	Tribnol. [RF ₃] A 29-day toxicological study at a theoretical concentration of 100 parts per million; toxic effects of inhalation by laboratory animals.	12/ /44
M-1716	Cobler, J.G.	Mortality data for animal inhalation exposures to C-216 [fluorine] and to H(C-216) [hydrogen fluoride]	5/23/45
M-1726	Weil, C.S. Horton, C. Laush, G.	890 [BF ₃]. A 30-day toxicological study at a metered concentration of 50 parts per million. Toxic effects of inhalation by laboratory animals.	4/ /45

TOXICITY OF FLUORINE AND FLUORIDES

M-1740	Weil, C.S.	Tribnol. BF_3 The second 30-day toxicological study at metered concentration of 100 parts per million. Toxic effects of inhalation by laboratory animals.	6/ /45
M-1767	Maynard, E.A.	One-month experiment on the oral toxicity of CoF_3 in rats.	7/16/45
M-1799	Weil, C.S.	Boron trifluoride. BF_3 . A 30-day toxicological study at metered concentration of 15 parts/million.	11/ /45
M-1814	Eriksen, N.	A study of toxicological effects of the inhalation of gaseous fluorine at an approximate concentration of 8 mg/m^3 .	10/ /45
M-1825	Weil, C.S.	Boron trifluoride methyl ether complex. A 32-day toxicological study at a metered concentration of 20 parts/million.	10/ /45
M-1827	Eriksen, N.	A study of toxicological effects of inhalation of gaseous fluorine at a concentration of approximately 25 mg/m^3 .	9/ /45
M-1844	Eriksen, N.	A 30-day study of toxicological effects of inhalation of gaseous hydrogen fluoride at a concentration of approximately 7 mg/m^3 .	12/ /45
M-1874	Eriksen, N.	A study of toxicological effects of inhalation of gaseous fluorine at a concentration of approximately 3 mg/m^3 .	10/ /45
M-1889	Eriksen, N.	A study of lethal effect of inhalation of gaseous fluorine (F_2) at concentrations from 100 ppm to 10,000 ppm.	10/ /45

TOXICITY OF FLUORINE AND FLUORIDES

M-1800	Eriksen, N.	A 31-day study of toxicological effects of inhalation of gaseous fluorine at a concentration of approximately 0.8 mg/m ³ .	10/ /45
M-1940	Eriksen, N.	A 29-day study of the toxicological effects of the inhalation of gaseous hydrogen fluoride at a concentration of approximately 25 mg/m ³ .	12/ /45
M-1981	LaBelle, C.W.	Studies on toxicity of oxygen fluoride at levels of exposure from 10 to 0.1 ppm by volume.	1/ /45
UR-21 p.84-86	Smith, F.A.	Acute and pilot feeding studies of NaF.	4/23/48
UR-21 p.87	Smith, F.A.	Fluoride metabolism.	4/23/48
UR-38 p.69-71	Smith, F.A. Gardner, D.E. Maynard, E.A. Downs, W.L.	Acute and pilot feeding studies. (Fluoride) toxicity of sodium fluoride by ingestion.	7/15/48
UR-38 p.72-75	Gardner, D.E. Neuman, W.F. Neuman, M.W.	Fluoride metabolism.	7/15/48
UR-45 p.75	Smith, F.A. Maynard, E.A. Downs, W.L.	Fluoride: acute and pilot feeding studies.	10/15/48
UR-70 p.51	Maynard, E.A. Downs, W.L.	Acute intraperitoneal toxicity of sodium fluoride.	4/25/49
UR-70 p.52-53	Maynard, E.A. Downs, W.L.	Acute toxicity of ammonium fluoride (NH ₄ F).	4/25/49
UR-70 p.52, p.54-56	Smith, F.A. Stokinger, H.E. Gardner, D.E.	[Total skeletal fluoride content of man.]	4/25/49

TOXICITY OF FLUORINE AND FLUORIDES

UR-70 p.57-59	Smith, F.A. Stokinger, H.E. Gardner, D.E.	Effect of beryllium sulfate on the skeletal deposition of fluoride.	4/25/49
UR-70 p.59-62	Smith, F.A. Stokinger, H.E. Gardner, D.E.	Blood fluoride content following exposure to hydrogen fluoride.	4/25/49
UR-70 p.62-65	Smith, F.A. Stokinger, H.E. Gardner, D.E.	Normal blood and urine fluoride levels.	4/25/49
UR-77 AECU-406	Smith, F.A. Gardner, D.E.	A preliminary investigation of blood fluoride levels following exposure to hydrogen fluoride at a concentration of approximately 29 mg/m ³ .	4/25/49
UR-87 p.42-46	Smith, F.A.	Acute and pilot feeding studies (of sodium fluoride)	7/30/49
UR-103 p.60	Maynard, E.A. Downs, W.L.	Acute oral toxicity of NaF in albino rats.	1/31/50
UR-103 p.60-63	Smith, F.A. Gardner, D.E. Wing, D.	Fluoride content in human bone.	1/31/50
UR-127 p.51-52	Smith, F.A. Gardner, D.E. DeVoldre, J. Root, R.E. Wing, D.	Blood fluoride levels following exposure to hydrogen fluoride.	8/1/50
UR-127 p.52-55	Smith, F.A. Gardner, D.E.	Fluoride levels in blood and urine of industrial personnel.	8/1/50
UR-152 p.106-8	Smith, F.A. Gardner, D.E.	Fluoride content of public water supplies.	2/1/51
UR-154	Smith, F.A.	An annotated bibliography of the literature on the pharmacology and toxicology of fluorine and its compounds. (1936-1950)	1/29/51

TOXICITY OF FLUORINE AND FLUORIDES

UR-154 Rev.	Smith, F.A. Cox, G.J.	A bibliography of the literature (1936-1952) on the pharmacology and toxicology of fluorine and its compounds, including effects on bones and teeth.	9/26/52
UR-164 p.73-77	Maynard, E.A. Downs, W.L. LeSher, M.F.	Toxicity of some fluoride compounds.	5/ 9/51
UR-200 p.3-5	Gardner, D.E. Smith, F.A. Hodge, H.C.	Fluoride concentration of placental tissue.	2/11/52
UR-200 p.6-11	Smith, F.A. Gardner, D.E.	Effect of renal dysfunction on the urinary excretion of fluoride.	2/11/52
UR-200 p.12-14	Smith, F.A. Gardner, D.E. Hodge, H.C.	Skeletal storage of fluoride in the human.	2/11/52
UR-200 p.15-16	Smith, F.A. Gardner, D.E.	Miscellaneous tissue fluoride concentrations.	2/11/52
UR-200 p.17-18	Smith, F.A. Gardner, D.E.	Fluoride excretion in industrial workers.	2/11/52
UR-200 p.19-23	Smith, F.A. Gardner, D.E.	Blood fluoride levels in dogs following inhalation of HF.	2/11/52
UR-222 p.51	Smith, F.A. Gardner, D.E. DeVoldre, J. Hodge, H.C.	Blood fluoride concentrations in dogs exposed to hydrogen fluoride. (Abstract. Am. Ind. Hyg. Assoc., Cincinnati, Apr. 24, 1952)	11/ 3/52
UR-356*	Hodge, H.C. Smith, F.A.	Some public health aspects of water fluoridation. (A.A.A.S. Monograph, <u>Fluoridation as a Public Health Measure</u> : 79-109, Washington, D.C., 1954)	

* Journal publication only

TOXICITY OF FLUORINE AND FLUORIDES

- UR-357* Smith, F.A. Investigation on the metabolism
Gardner, D.E. of fluoride. III. Effect
Hodge, H.C. of acute renal tubular injury
on urinary excretion of fluor-
ide by the rabbit. (A.M.A.
Arch. Ind. Health 11: 2-10
1955)
- UR-373* Steinberg, C.L. A comparison of rheumatoid
Gardner, D.E. (ankylosing) spondylitis and
Smith, F.A. crippling fluorosis. (Ann.
Hodge, H.C. Rheumatic Diseases 14:
378-84, 1955)
- UR-390 Smith, F.A. The determination of fluoride 4/12/55
Gardner, D.E. in urine. (Am. Ind. Hyg.
Assoc. Quart. 16: 215-20,
1955)
- UR-412* Feldman, I. The state of fluoride in
Morken, D.A. drinking water. (J. Dental
Hodge, H.C. Research 36: 192-202, 1957)
- UR-420* Chen, P.S., Jr. Renal clearance of fluoride.
Smith, F.A. (Proc. Soc. Exptl. Biol.
Gardner, D.E. Med. 92: 879-83, 1956)
O'Brien, J.A.
Hodge, H.C.
- UR-457* Hein, J.W. Soft tissue distribution in
Bonner, J.F. the rat of radioactive fluoride
Brudevold, F. administered as sodium fluoride.
Smith, F.A. (Abstract. J. Dental Research
Hodge, H.C. 33: 709-10, 1954) (Nature 178:
1295-6, 1956)
- UR-459* Gardner, D.E. Investigations on the metabolism
Scharff, T.G. of fluoride. IV. Fluoride balance
Smith, F.A. studies at high levels of in-
Hodge, H.C. take in rabbits. (J. Nutrition
61: 207-17, 1957)

*Journal publication only.

TOXICITY OF FLUORINE AND FLUORIDES

- Dale, P.P.
McCauley, H.B. Dental conditions in workers chronically exposed to dilute and anhydrous hydrofluoric acid. (J. Am. Dental Assoc. 37: 131-40, 1948)
- Cox, G.J.
Hodge, H.C. The toxicity of fluorides in relation to their use in dentistry. (J. Am. Dental Assoc. 40: 440-51, 1950)
- Hodge, H.C. The concentration of fluorides in drinking water to give the point of minimum caries with maximum safety. (J. Am. Dental Assoc. 40: 436-9, 1950)
- Shourie, K.L.
Hein, J.W.
Hodge, H.C. Preliminary studies of the caries inhibiting potential and acute toxicity of sodium monofluorophosphate. (J. Dental Research 29: 529-33, 1950)
- Smith, F.A.
Gardner, D.E.
Hodge, H.C. Investigations of the metabolism of fluoride. II. Fluoride content of blood and urine as a function of the fluorine in drinking water. (J. Dental Research 29: 596-600, 1950)
- Smith, F.A.
Gardner, D.E. Investigations on the metabolism of fluoride. I. The determination of fluoride in blood. (J. Dental Research 30: 182-8, 1951)
- Gardner, D.E.
Smith, F.A.
Hodge, H.C.
Overton, D.E.
Feltman, R. The fluoride content of placental tissue as related to the fluoride content of drinking water. (Science 115: 208-9, 1952)
- Brudevold, F.
Gardner, D.E.
Smith, F.A. Distribution in depth of fluorine in human enamel. (Abstract. J. Dental Research 33: 650, 1954)

TOXICITY OF FLUORINE AND FLUORIDES

- Hein, J.W.
Smith, F.A.
Brudevold, F. Distribution of 1ppm fluoride as radioactively tagged sodium fluoride in the soft tissue of the adult female rat. (Abstract. J. Dental Research 33: 709-10, 1954)
- Feldman, I.
Morken, D.
Hodge, H.C. Availability of fluoride in sodium fluorosilicate. (Abstract. Federation Proc. 14: 338-9, 1955)
- Brudevold, F.
Gardner, D.E.
Smith, F.A. The distribution of fluoride in human enamel. (J. Dental Research 35: 420-9, 1956)
- Hodge, H.C. Fluoride metabolism: its significance in water metabolism. (J. Am. Dental Assoc. 52: 307-15, 1956)
- Tabechian, H.
Altman, K.I.
Young, L.E. Inhibition of P³²-orthophosphate exchange by sodium fluoride in erythrocytes from patients with hereditary spherocytosis. (Proc. Soc. Exptl. Biol. Med. 92: 712-3, 1956)
- Brudevold, F.
Hein, J.W.
Bonner, J.F.
Nevin, R.B.
Bibby, B.G.
Hodge, H.C. Reaction of tooth surfaces with one PPM of fluoride as sodium fluoride. (J. Dental Research 36: 771-9, 1957)
- Smith, F.A.
Hodge, H.C.
Leone, N.C. Chemical evaluation of human soft tissues following prolonged ingestion of fluoride at various levels. (Abstract. Presented at Symposium on Fluorides, Univ. of Cincinnati, Kettering Laboratory, December 9-11, 1957)

TOXICITY OF FLUORINE AND FLUORIDES

- Smith, F.A. Fluoride balance studies
 Gardner, D.E. in rats at low levels of water
 Downs, W.L. fluoridation. (Abstract.
 Hodge, H.C. Presented at meeting of
 American Industrial Hygiene
 Association at St. Louis
 on April 26, 1957)
- Smith, F.A. Fluoride removal by powdered
 Gardner, D.E. dental enamel from solutions
 Dwight, E. of stannous or of sodium
 Leach, S.A. fluoride. (Nature 180: 1421-
 Hodge, H.C. 2, 1957)
- Smith, F.A. Fluoride toxicity. (Abstract.
 Hodge, H.C. Presented at Section Nd of the
 American Association for the
 Advancement of Science,
 Indianapolis, Ind., 124th
 meeting, Dec. 27, 1957.
 Symposium: Pharmacology and
 Physiology of Fluorides.)
- Issac, S. The relation of fluoride
 Brudevold, F. in the drinking water to the
 Smith, F.A. distribution of fluoride
 Gardner, D.E. in enamel. (J. Dental
 Research 37: 318-25, 1958)
- Issac, S. Solubility rate and natural
 Brudevold, F. fluoride content of surface
 Smith, F.A. and subsurface enamel.
 Gardner, D.E. (J. Dental Research 37:
254-63, 1958)
- Light, A.E. Effect of fluoridated milk on
 Smith, F.A. deciduous teeth. (J. Am.
 Gardner, D.E. Dental Assoc. 56: 249-50, 1958)
 Hodge, H.C.
- Steinberg, C.L. Fluoridation of public water
 Gardner, D.E. supplies and its relation
 Smith, F.A. to musculoskeletal diseases.
 Hodge, H.C. (New Engl. J. Med. 258: 322-5,
1958)

TOXICITY OF FLUORINE AND FLUORIDES

- Gardner, D.E. Distribution of fluoride in the
Smith, F.A. normal dog femur. (J. Appl.
Hodge, H.C. Physiol. 14: 427-30, 1959)
Brudevold, F.
Eldredge, D. McG.
- Steadman, L.T. Fluoride in ancient Indian
Brudevold, F. teeth. (J. Dental Research 38:
Smith, F.A. 285, 1959)
Gardner, D.E.
- Sundvall-Hagland, I. A comparison of the increment
 of fluoride in enamel and
Brudevold, F. the reduction in dental
Armstrong, W.D. caries resulting from topical
Gardner, D.E. fluoride applications.
Smith, F.A. (Arch. Oral Biol. 1: 74-79,
1959)
- Smith, F.A. Screening of fluorine-
Downs, W.L. containing compounds for
Hodge, H.C. acute toxicity. (Toxicol.
Maynard, E.A. Appl. Pharmacol. 2: 54-58, 1960))
- Taylor, J.M. Toxic effects of fluoride on 1959
 the rat kidney. (Thesis)

TOXICITY OF MISCELLANEOUS SUBSTANCES

M-1556	Voegtlin, C.	Acute toxicity of lead salts in experimental animals. (Single fatal doses by different routes of administration)	10/ 9/44
M-1601	Weil, C.S. et al.	Toxicity of P-539 [trifluoromonochloroethylene]. A preliminary report.	12/ /44
M-2005 MDDC-1715	Spiegel, C.J. Howe, R.E. LaFrance, L.	The toxicity of hexachlorpropylene and trichloracrylyl chloride.	7/ /47
UR-48 AECU-18	Sprague, G.F. Doran, E. Scott, J.K. Stokinger, H.E.	The inhalation toxicity of sodium acid sulfate mist at 75 mg/m ³ in animals.	11/12/48
UR-93	McConnell, K.P. Cooper, B.J.	Distribution of selenium in dog serum proteins and red blood cells after subcutaneous injection of sodium selenate containing radio-selenium.	10/14/49
UR-192	Gosselin, R.E. Maynard, E.A. Downs, W.L. Miller, G.J. Berke, H.L. Hodge, H.C.	The toxicity and urinary excretion of crystalline metaphosphates.	3/18/52
UR-200 p.24-26	Maynard, E.A. Downs, W.L.	Short-term feeding studies on sodium fluorophosphate (Na ₂ PO ₃ F) and potassium hexafluorophosphate (KPF ₆) in rats.	2/11/52
UR-204	Tidball, C.S. Gosselin, R.E. Downs, W.L. Megirian, R. Maynard, E.A. Rothstein, A.	The toxicology of a phosphate polymer and its use as a uranium antidote. (Thesis-Tidball)	5/16/52
UR-213 p.69	Tidball, C.S. Gosselin, R.E. Rene, R.M.	Mechanisms responsible for acute toxicity of a phosphate glass. (<u>Federation Proc. 11: 162, 1952</u>)	7/31/52

TOXICITY OF MISCELLANEOUS SUBSTANCES

UR-229	Wilson, H.B. Stokinger, H.E. Sylvester, G.E.	The acute inhalation toxicity of carnotite ore dust; a 30-day study. (<u>Arch. Ind. Hyg. Occupational Med. 7: 301-9, 1953</u>)	3/31/53
UR-242 p.39	Maynard, E.A.	Toxicity testing of chemical additives. (12th Meeting of Institute of Food Technology, Mich., June 9, 1952)	2/26/53
UR-262	Rothstein, A.	Toxicology of the minor metals.	6/ 5/53
UR-311 p.3-5	Downs, W.L. Spiegl, C.J. Hodge, H.C. Maynard, E.A.	Screening toxicity studies on a number of alcohols and their phosphate esters.	2/ 9/54
UR-327	Sikov, M.R. Noonan, T.R.	The effects of irradiation with phosphorus-32 on the viability and growth of rat embryos. (<u>Radiation Research 7: 541-50, 1957</u>)	10/ 8/56
UR-342	Haven, F. Lauterbach, K.	Toxicology of the organic phosphate esters.	7/ 2/54
UR-347	Haven, F.L.	Nickel carbonyl, review of literature.	7/14/54
UR-348 p.26	Sikov, M.R. Noonan, T.R.	Effect of phosphorus-32 on growth and viability of rat embryos. (<u>Federation Proc. 13: 137, 1954</u>)	8/26/54
UR-424	Tuttle, L.W. Baxter, R.C. Goldman, M. Bale, W.F.	The metabolism and toxicology of strontium-90 in the rat. Rationale, experimental procedures, pilot experiments.	9/23/59
UR-454	Spiegl, C.J. Scott, J.K. Steinhardt, H. Leach, L. Hodge, H.C.	Acute inhalation toxicity of lithium hydride. (<u>A.M.A. Arch. Ind. Health 14: 468-70, 1956</u>)	7/17/56

TOXICITY OF MISCELLANEOUS SUBSTANCES

UR-460	Spiegl, C.J. Calkins, M.C. DeVoldre, J.J. Scott, J.K. Steadman, L.T. Stokinger, H.E.	Inhalation toxicity of zirconium compounds. I. Short-term studies.	7/31/56
UR-468	Rothstein, A.	Chronic mercury poisoning: an evaluation of our present knowledge.	11/15/56
UR-469	Spiegl, C.J.	The industrial hygiene and toxicology of mercury.	1/10/57
UR-479	Sikov, M.R. Noonan, T.R.	Anomalous development induced in the intrauterine rat by the maternal administration of radiophosphorus.	1/4/57
UR-500	Smith, G.A. Thomas, R.G. Black, B. Scott, J.K.	The metabolism of indium ^{114m} administered to the rat by intratracheal intubation.	7/23/57
UR-507	Smith, G.A. Scott, J.K.	Metabolism of indium II. The distribution and excretion of indium ^{114m} administered to the rat by subcutaneous injection.	10/18/57
UR-508	Morrow, F.E. Gibb, F.R. Cloutier, R. Casarett, L.J. Scott, J.K.	Fate of indium sesquioxide and of indium ¹¹⁴ trichloride hydrolysate following inhalation in rats.	2/28/58
UR-529	Rothe, W.E. Tuttle, L.W.	Irradiation of the gastrointestinal tract of the rat by insoluble beta emitters. (Thesis-Rothe)	10/30/58
UR-542	Downs, W.L. Scott, J.K. Maynard, E.A. Hodge, H.C. Leach, L.J. Taylor, J.M. Coye, R.D.	Studies on the toxicology of aurin tricarboxylic acid.	4/1/59

TOXICITY OF MISCELLANEOUS SUBSTANCES

UR-543	Rothstein, A. Hayes, A. Bruton, W.	The metabolism of mercury in the rat studied by isotope techniques. I. The distribution excretion pattern of mercuric chloride given as a single injection by the intravenous and intramuscular route. (To be published in <u>J. Pharmacol. Exptl. Therap.</u>)	4/22/59
UR-544	Thomas, R.G. Wilson, R.H. Smith, G.A. Lie, R.	Field studies of fission product inhalation. Part I. Fission product inhalation following an experimental inpile meltdown.	8/12/59
UR-545	Wilson, R.H.	Field studies of fission product inhalation. Part II. Mobile field facilities.	4/13/59
UR-554	Smith, G.A. Thomas, R.G. Scott, J.K.	Distribution and excretion of indium-114m after multiple intramuscular injection to the rat.	8/14/49
UR-555	Thomas, R.G. Wilson, R.H.	Field studies of fission product inhalation. Part III. Fission product field release test series one (FFPRT-I).	10/ 2/59
UR-556	Rothstein, A. Hayes, A.	Metabolism in the rat studied by isotope techniques. II. The body burden of mercury after single and multiple injections. (To be published in <u>J. Pharmacol. Exptl. Therap.</u>)	10/22/59
UR-558	Downs, W.L. Scott, J.K. Steadman, L.T. Maynard, E.A.	The toxicity of indium. (<u>Am. Ind. Hyg. Assoc. Abstracts, Ind. Health Conf., Atlantic City, N.J., April, 1958</u>)	11/16/59
	Salomon, K. Gabric, B.W. Thale, T.	A study on mescaline in human subjects. (<u>J. Pharmacol. Exptl. Therap. 95: 455-9, 1949</u>)	

TOXICITY OF MISCELLANEOUS SUBSTANCES

- Thale, T.
Gabrio, B.W.
Salomon, K. Hallucination and imagery induced by mescaline. (Am. J. Psychiat. 106: 686-91, 1950)
- DiStefano, V.
Eurwitz, L.
Neuman, W.F. Coramine (Nikethamide) as adjuvant to atropine in treatment of poisoning by EPN(ethyl p-nitrophenyl thionobenzenephosphonate). (Proc. Soc. Exptl. Biol. Med. 78: 712-3, 1951)
- Hall, R.H.
Laskin, S.
Frank, P.E.
Maynard, E.A.
Hodge, H.C. Preliminary observations on toxicity of elemental selenium. (Arch. Ind. Hyg. Occupational Med. 4: 458-64, 1951)
- Williams, L.
Hodge, H.C. Chronic toxicity studies of guanidinaecetic acid etenclomine in rats. (Federation Proc. 10: 345, 1951)
- Hodge, H.C.
Maynard, E.A.
Hawkins, D.R.
et al. Acute and short term toxicity studies of fused bentonite sulfur preparations. (J. Am. Pharm. Assoc. Sci. Ed. 40: 10, 1951)
- Hodge, H.C.
Maynard, E.A.
Blanchet, H.J., Jr. Chronic oral toxicity tests of methoxychlor (2,2-Di-(p-methoxyphenyl)-1,1,-trichloroethane) in rats and dogs. (J. Pharmacol. Exptl. Therap. 104: 60, 1952)
- Hodge, H.C.
Maynard, E.A.
Blanchet, H.J.
Spencer, W.P.
Rowe, V.K. Toxicological studies of orthophenylphenol (Dowicide I). (J. Pharmacol. Exptl. Therap. 104: 202, 1952)
- Gosselin, R.E.
Tidball, C.S.
Megirian, R.
Maynard, E.A.
Downs, W.L.
Hodge, H.C. Metabolic acidosis and hypocalcemia as toxic manifestations of polymeric phosphates. (J. Pharmacol. Exptl. Therap. 108: 117-27, 1953)

5/16/52

TOXICITY OF MISCELLANEOUS SUBSTANCES

- Sikov, M.R.
Noonan, T.R. The postnatal effects of fetal irradiation with maternally administered radiophosphorus. (Abstract. Radiation Research 3: 347, 1955)
- Hodge, H.C.
Maynard, E.A.
Downs, W.L.
Coye, R.D., Jr.
Steadman, L.T. Chronic oral toxicity of ferric dimethyldithiocarbamate (Ferbam) and zinc dimethyldithiocarbamate (Ziram). (J. Pharmacol. Exptl. Therap. 118: 174-81, 1956)
- Neuman, W.F. Statement on radioactive fallout. (Hearings before the Special Subcommittee on Radiation of the Joint Committee on Atomic Energy, Congress of U.S., Part I., p.710, 1957)
- Casarett, G.W.
Conley, J.
Henderson, B.J.
Tuttle, L.W. Late pathologic effects of imbibed Sr⁹⁰ in bones of rats. (Abstract. Radiation Research 9: 100, 1958)
- Hodge, H.C.
Maynard, E.A.
Downs, W.L.
Coye, R.D., Jr. Chronic toxicity of 3-(p-chlorophenyl)-1, 1-dimethylurea (Monuron). (A.M.A. Arch. Ind. Health 17: 45-47, 1958)
- Neuman, W.F. Somatic effects of fission products. (Bull. Atomic Scientists, Jan. 1958: Special Issue)
- Neuman, W.F. The uncertainties in predicting the biological effects of fallout. (Bull. Atomic Scientists, Jan. 1958: Special Issue)
- Sikov, M.R.
Noonan, T.R. Anomalous development induced in the embryonic rat by the maternal administration of radiophosphorus. (Am. J. Anat. 103: 137-61, 1958)

TOXICITY OF MISCELLANEOUS SUBSTANCES

- Tuttle, L.W.
Baxter, R.C.
Goldman, M. Effects of imbibed Sr⁹⁰ in rats. (Abstract. Radiation Research 9: 195, 1958)
- Gray, E. LeB. Oxides of nitrogen: their occurrence, toxicity, hazard. A brief review. (A.M.A. Arch. Ind. Health 19: 479-86, 1959)
- Casarett, L.J.
Bless, S.
Katz, R.
Scott, J.K. The deposition, short-term retention and fate of Ir-192 in rats following inhalation. (Am. Ind. Hyg. Assoc. Abstracts, Ind. Health Conf., Rochester, N.Y., April, 1960)
- Tuttle, L.W.
Baxter, R.C.
Casarett, G.W. The chronic toxicity of strontium-90 in the monkey. (Abstract. Radiation Research 12: 480, 1960)
- Downs, W.L.
Scott, J.K.
Steadman, L.T.
Maynard, E.A. Acute and sub-acute toxicity studies of thallium compounds. (To be published in Am. Ind. Hyg. Assoc. J.)
- Lie, R.
Thomas, R.G.
Scott, J.K. The distribution and excretion of thallium²⁰⁴ in the rat with suggested MPC's and a bio-assay procedure. (Health Physics 2: 334-40, 1960)
- Smith, G.A.
Thomas, R.G.
Scott, J.K. The metabolism of indium after administration of a single dose to the rat by intratracheal, subcutaneous, intramuscular, and oral injection. (To be published in Health Physics.)
- Williams, L.B. Transmethylation: toxicity studies of some methyl acceptors. (Thesis) 1950
- Sikov, M.R. Studies on the effects of irradiation with maternally administered P-32 on the prenatal and postnatal development of the rat. (Thesis) 1955

TOXICITY OF MISCELLANEOUS SUBSTANCES

	DellaRosa, R.J.	Studies on the renal excretion of strontium and calcium in the dog. (Thesis)	1959
	Dagirmanjian, R.	Some pharmacological and toxicological effects of three tetrahydrocannabinols. (Thesis)	1960
AECU-743	Maynard, E.A.	A recommended method for the measurement of the acute toxicity of a substance administered by intraperitoneal injection.	1/17/50
MDDC-1070	Voegtlin, C.	Toxicity of certain heavy metal carbonyls ($\text{Ni}(\text{CO})_4$, $\text{Mo}(\text{CO})_6$, $\text{W}(\text{CO})_6$, $\text{Cr}(\text{CO})_6$).	4/30/47
UN-902	Sikov, M.R. Lofstrom, J.E. Noonan, T.R.	Effects of maternally administered P-32 on fetal development. (2nd Intern. Conf. on the Peaceful Uses of Atomic Energy, Vol. 22, 71, 1958)	

TOXICITY OF PLUTONIUM

- | | | | |
|--------|--|--|---------|
| M-1878 | Boyd, G.A.
Fink, R.M. | Comparative intravenous lethal dose pilot studies for polonium, radium, and plutonium in rats. (NEES Div. VI, Vol. 3) | 6/ 1/46 |
| M-1902 | Boyd, G.A.
Fink, R.M. | A comparative intravenous lethal dosage study of radium, plutonium and polonium in rats with clinical, pathological and hematological observations. (NNES Div. VI, Vol. 3) | 7/22/46 |
| | Casarett, L.J.
Morrow, P.E.
Gibb, F.R. | Autoradiographic study of the distribution of plutonium-239 following inhalation. (<u>Am. Hyg. Assoc. Abstracts, Ind. Health Conf., Chicago, Ill., 1959, p. 102</u>) | |
| | Morrow, P.E.
Casarett, L.J. | An experimental study of the deposition and retention of a Pu-239 dioxide aerosol. (To be published in <u>Proc. Symposium on Inhaled Particles and Vapours.</u>) | |
| | Boecker, B.B. | A study of the deposition and retention of plutonium dioxide in rats. (Thesis) | 1959 |

TOXICITY OF POLONIUM

M-1519	Silberstein, H.	Summary of studies on the physiological behavior of polonium. (NNES Div. VI, Vol. 3)	6/23/44
M-1529	Fink, R.M. Bale, W.F.	Preliminary report on the metabolism of polonium. (NNES Div. VI, Vol. 3)	8/ 2/44
M-1551	Fink, R.M.	Progress report on the metabolism of polonium (NNES Div. VI, Vol. 3)	9/21/44
M-1579	Minto, W.L. Fink, R.M.	Progress report on metabolism of polonium. III. Tracer studies in two human subjects. (NNES Div. VI, Vol. 3)	11/11/44
M-1659	Minto, W.L. Fink, R.M.	Progress report on the metabolism of polonium. IV. Further intravenous and oral experiments with rats. (NNES Div. VI, Vol. 3)	4/16/45
M-1811	Kimball, C.P. Fink, R.M.	Inhalation of volatilized polonium by rats. (NNES Div. VI, Vol. 3)	12/20/45
M-1837	Silberstein, H.E. Valentine, W.N. Lawrence, J.S. Fink, R.M.	Metabolism of polonium. VI. Tracer studies in three human subjects following intravenous or oral administration. (NNES Div. VI, Vol. 3)	2/ 6/46
M-1878	Boyd, G.A. Fink, R.M.	Comparative intravenous lethal dose pilot studies for polonium, radium, and plutonium in rats. (NNES Div. VI, Vol. 3)	6/ 1/46
M-1902	Boyd, G.A. Fink, R.M.	A comparative intravenous lethal dosage study of radium, plutonium, and polonium in rats with clinical, pathological and hematological observations. (NNES Div. VI, Vol. 3)	7/22/46

TOXICITY OF POLONIUM

M-2002 p.31-35	Hursh, J.B.	The effect of BAL and NDR 399 on excretion of polonium.	11/15/47
M-2012 p.15-18	Hursh, J.B.	Survival experiments on polonium injected rats as affected by BAL treatment.	1/15/48
UR-39	Stannard, J.N. Hursh, J.B.	Studies on the metabolism of polonium in experimental animals and long-term chronic exposure of animals to radioactive materials.	7/28/48
UR-42	Casarett, G.W.	A serial study of pathological and hematological effects of intravenously injected polonium in rats.	11/ 4/48
UR-44	Hursh, J.B. Stannard, J.N.	Present status of polonium tolerance estimations.	10/14/48
UR-83	Hursh, J.B.	The therapeutic use of BAL in polonium toxicity. I. The effect of dithiol compounds on the excretion of polonium. II. Blood and tissue distribution of polonium as affected by BAL. III. Survival experiments on polonium injected rats as affected by BAL treatment. (<u>J. Pharmacol. Exptl. Therap. 103: 450-9, 1951</u>) (<u>Proc. Soc. Exptl. Biol. Med. 79: 210-2, 1952</u>)	7/12/49
UR-145 AECD-3046	Carr, M. Hayden, H. Seott, J.K. Stannard, J.N.	The activation of latent bartonellosis in the rat following intravenous administration of polonium.	11/29/50
UR-173	Watts, N.P.	Changes in the blood and kidneys of rats exposed to small amounts of polonium.	6/26/51

TOXICITY OF POLONIUM

UR-201	Casarett, G.W.	Histopathology of alpha radiation from internally administered polonium. (Thesis)	8/25/52
UR-220	Gallimore, J.C., Jr.	A radiochemical and autoradiographic study of the distribution of polonium in rats after intravenous administration. (Thesis)	10/ 6/52
UR-224	Thomas, R.G. Altman, K.I. Stannard, J.N. Salomon, K.	Polonium induced anemia in rats as studied with alpha-C ¹⁴ -glycine. The effect of various pathological conditions on <u>in vivo</u> hemoglobin synthesis. II. Polonium induced anemia as studied with alpha-C ¹⁴ - glycine. (Abstract. Federation Proc. 12: 143-4, 1953) (<u>Radiation Research 1: 180-8, 1954</u>)	12/ 9/52
UR-268 p.18	Thomas, R.G. Altman, K.I. Stannard, J.N. Salomon, K.	Hemin synthesis in polonium induced anemia in the rat. (Abstract. 37th Annual Fed. Meet., Chicago, Apr. 6-10, 1953)	9/ 2/53
UR-274	Blair, H.A.	The shortening of life span by injected radium, polonium and plutonium.	9/ 8/53
UR-290 p.37	Morrow, P.E. Smith, F.A. Casarett, L.J. DellaRosa, R.J. Stannard, J.N.	Absorption of polonium from the gastro-intestinal tract of the cat. (Abstract. J. Pharmacol. Exptl. Therap. <u>110: 40, 1954</u>)	11/10/53
UR-295	Tuttle, L.W. Baxter, R.C.	The effect of polonium alpha particle irradiation upon reticuloendothelial function as measured with P ³² labeled particulate chromic phosphate.	11/28/55
UR-299	Stannard, J.N.	The distribution and excretion of orally administered polonium in the rat.	9/17/54

TOXICITY OF POLONIUM

UR-305	Smith, F.A. DellaRosa, R.J. Casarett, L.J.	Analytical and autoradiographic methods for polonium ²¹⁰ .	8/24/55
UR-320	Noonan, T.R. Stannard, J.N.	Influence of diet on survival of rats following whole body X-irradiation or polonium injection.	3/23/54
UR-348 p.34	Thomas, R.G. Stannard, J.N.	The binding of polonium by red cells and plasma.	8/26/54
UR-348 p.36	Smith, F.A. Morrow, P.E. Casarett, L.J. DellaRosa, R.J. Stannard, J.N.	Investigations into the toxicity of polonium: effects of routes of administration.	8/26/54
UR-376	Stannard, J.N. Baxter, R.C.	The effects of a maintained body burden of polonium in the rat. II. Plan of long experiment; distribution, excretion and retention data.	11/22/54
UR-392	DellaRosa, R.J. Thomas, R.G. Stannard, J.N.	Acute toxicity retention of polonium in the rat.	4/27/55
UR-393	Stannard, J.N.	Long term retention of polonium in the rat.	4/29/55
UR-395	Stannard, J.N. Blair, H.A. Baxter, R.C.	Effects of a maintained body burden of polonium in the rat. III. Mortality, life span, and growth.	6/16/55
UR-396	Morrow, P.E. Smith, F.A. DellaRosa, R.J. Casarett, L.J. Stannard, J.N.	The early fate of polonium ²¹⁰ in cats. I. Gastro-intestinal administration studies. II. Intravenous administration studies.	6/30/56
UR-414	Thomas, R.G. Stannard, J.N.	The binding of polonium by red cells and plasma proteins. (Abstract. Radiation Research 1: 563-4, 1954)	11/ 8/55

TOXICITY OF POLONIUM

UR-421	Thomas, R.G. Stannard, J.N.	Influence of injection solution treatment on blood disappearance rates and tissue distribution of polonium ²¹⁰ .	2/20/56
UR-427	Stannard, J.N. Angell, M.A.K.	Possible sex influences on the metabolism of polonium ²¹⁰ in the rat.	3/ 1/56
UR-429	Stannard, J.N. Haydon, H.	The effect of BAL (British Anti-Lewisite) on distribution and excretion of orally administered polonium ²¹⁰ .	3/21/56
UR-430	Thomas, R.G. Stannard, J.N.	The metabolism of polonium ²¹⁰ administered by intratracheal injection to the rat.	3/20/56
UR-431	DellaRosa, R.J.	The acute toxicity and retention of intratracheally administered polonium ²¹⁰ in the rat.	3/28/56
UR-447	Casarett, L.J.	Autoradiographic study of effects of route of administration of distribution of polonium ²¹⁰ .	5/28/56
UR-463	Black, S.C.	Low level polonium determination of tissue and urine. (Thesis)	10/18/56
UR-477	Casarett, G.W.	Pathologic effects of orally administered polonium.	11/30/56
UR-478	Morrow, P.E. DellaRosa, R.J.	The fate of polonium ²¹⁰ colloid and polonium ²¹⁰ tagged silver particles following intratracheal administration to rabbits.	12/20/56
UR-487	Stannard, J.N. Smith, F.A.	Species differences in the metabolism of polonium ²¹⁰ .	5/16/57
UR-495	Berke, H.L. DiPasqua, A.C.	The distribution and excretion of polonium ²¹⁰ after inhalation. (Abstract. <u>Radiation Research</u> 7: 303, 1957)	9/24/57

TOXICITY OF POLONIUM

UR-501	Krebs, C.A. Whipple, G.H., Jr.	Polonium urinalysis.	8/ 7/57
UR-519	DellaRosa, R.J. Stannard, J.N.	The acute toxicity and retention of intraperitoneally administered polonium ²¹⁰ in the rat.	2/28/58
UR-540	Casarett, L.J. Morrow, P.E.	Autoradiographic study of lung clearance and distribution of polonium-210 after intratracheal injection.	2/18/59
UR-541	Feldman, I. Saunor, P.	Some <u>in vitro</u> studies of polonium ²¹⁰ -binding by blood constituents.	2/25/59
UR-552	Casarett, L.J.	Deposition, retention and fate of inhaled polonium-210 in rats.	6/25/59
UR-557	Casarett, L.J.	Autoradiographic observations following the inhalation of polonium-210 in rats.	10/14/59
UR-566	Smith, F.A. Morrow, P.E. Gibb, F.R. DellaRosa, R.J. Casarett, L.J. Scott, J.K. Stannard, J.N.	Distribution and excretion studies in dogs exposed to an aerosol containing polonium-210.	4/22/60
	Casarett, L.J. Stannard, J.N.	Further evidence for a role of the R-E system in the distribution of Po ²¹⁰ in rat tissues. (<u>J. Pharmacol. Exptl. Therap. 113: 9-10, 1955</u>)	
	Stannard, J.N. Blair, H.A. Baxter, R.C.	Life span shortening in rats induced by multiple doses of polonium ²¹⁰ . (<u>Abstract. Federation Proc. 14: Part I, 144, 1955</u>)	

TOXICITY OF POLONIUM

- Thomas, R.G.
DellaRosa, R.J.
Stannard, J.N. Comparative toxicity of Po^{210} administered by oral and intravenous routes to rats. (J. Pharmacol. Exptl. Therap. 113: 1955)
- Stannard, J.N.
DellaRosa, R.
Thomas, R.G. Lack of correlation between tissue distribution and lethality of polonium²¹⁰. (Abstract. Radiation Research 5: 596-7, 1956)
- Berke, H.
DiPasqua, A. The distribution and excretion of Po^{210} after inhalation. (Abstract. Radiation Research 7: 303, 1957)
- Ruttle, L.W.
Baxter, R.C. The effect of polonium alpha-particle irradiation on reticuloendothelial function as measured with P^{32} -labeled particulate chromic phosphate. (Abstract. Radiation Research 7: 456, 1957)
- Smith, F.A.
Morrow, P.E.
Gibb, F.R.
DellaRosa, R.J.
Stannard, J.N. Distribution and excretion studies in dogs exposed to an aerosol containing Po^{210} . (Abstract. Presented at meeting of American Industrial Hygiene Association at Atlantic City on April 24, 1958.)
- Thomas, R.G.
Hodge, H.C. Evaluation of the hazard from inhaled insoluble oxides of thorium and uranium. (Abstract. Health Physics 1: 227, 1958)
(See also UN-739)
- Casarett, L.J. Autoradiographic studies on polonium. (Thesis) 1955
- Thomas, R.G. Studies on polonium in the blood. (Thesis) 1955

TOXICITY OF POLONIUM

	O'Brien, J.A.	Renal excretion of polonium in the rabbit. (Thesis)	1957
	Casarett, L.J.	A study of the pharmacodynamics of polonium administered via the lung. (Thesis)	1958
AECU-4024 p.13-18	Thomas, R.G.	Bioassay procedures for polonium.	9/ /58
ANL-5584 p.94-99	Harsh, J.B.	The mechanism by which BAL lengthens survival of rats after lethal doses of polonium. (Transcription of meeting on "Experimental and Clinical Approaches to the Treatment of Poisoning by Radioactive Substances" Oct., 1955, Argonne National Lab.)	8/ /56

TOXICITY OF RADIUM AND RADON

M-1590	Bale, W.F. Dowdy, A.E.	Report of visit with Dr. Robley Evans at the Massachusetts Institute of Technology on November 15, 1944.	
M-1695 AECD-2122	Silberstein, H.E.	Radium poisoning. A survey of the literature dealing with toxicity and metabolism of absorbed radium. (NNES Div. VI, Vol. 3)	5/26/45
M-1739	Silberstein, H.E. Fink, R.M.	Metabolism of radium. I. Tracer studies on rats after intravenous administration. (NNES Div. VI, Vol. 3)	8/ 2/45
M-1878	Boyd, G.A. Fink, R.M.	Comparative intravenous lethal dose pilot studies for polonium, radium, and plutonium in rats. (NNES Div. VI, Vol. 3)	6/ 1/46
M-1902	Boyd, G.A. Fink, R.M.	A comparative intravenous lethal dosage study of radium, plutonium, and polonium in rats with clinical, pathological and hematological observations. (NNES Div. VI, Vol. 3)	7/22/46
M-2002 p.36-38	Hursh, J.B.	Measurement of radon in breath samples.	11/15/47
UR-119	Hursh, J.B. Gates, A.A.	The radium content of the body for individuals with no known occupational exposure. (Nucleonics 7: 46-59, 1950)	5/18/50
UR-152 p.100-5	Hursh, J.B. Gates, A.A.	Radium analysis of source and tap water.	2/ 1/51
UR-164 p.34-37	Shandley, P.D.	The radium content of milk.	5/ 9/51
UR-189 p.6-7	Hursh, J.B. Gates, A.A.	Radium analysis of municipal water supplies.	10/29/51

TOXICITY OF RADIUM AND RADON

UR-205 p.6-10	Hursh, J.B.	Excretion of radium by dogs after a single intravenous injection.	5/14/52
UR-242 p.6-18	Shapiro, J. Bale, W.F.	A partial evaluation of the hazard from radon and its degradation products.	2/26/53
UR-255	Shandley, P.D.	The radium content of common foods.	4/22/53
UR-257	Hursh, J.B.	The radium content of public water supplies. (<u>J. Am. Water Works Assoc.</u> 46: 43-54, 1954)	5/ 4/53
UR-258	Hursh, J.B.	The measurement of breath radon by charcoal adsorption. (<u>Nucleonics</u> 12: 62-65, 1954 Condensed)	5/15/53
UR-266	Sultzzer, M. Hursh, J.B.	Polonium in the urine of miners exposed to radon. (<u>Arch. Ind. Hyg. Occupational Med.</u> 9: 89-100, 1954)	12/ 7/53
UR-298	Shapiro, J.	An evaluation of the pulmonary radiation dosage from radon and its daughter products. (Thesis)	4/ 9/54
UR-348 p.35	Morken, D.A.	The acute toxicity of inhaled radon.	8/26/54
UR-348 p.37	Hursh, J.B.	Natural radium content of the human body.	8/26/54
UR-365	Neuman, W.F. Hursh, J.B. Boyd, J. Hodge, H.C.	On the mechanism of skeletal fixation of radium. (<u>Ann. N.Y. Acad. Sci.</u> 62: 123-36, 1955)	11/16/54
UR-379	Morken, D.A.	A survey of the literature on the biological effects of radon and a determination of its acute toxicity.	1/24/55

1131310

UR 00183

TOXICITY OF RADIUM AND RADON

UR-411	Scott, J.K.	The histopathology of mice exposed to radon.	10/ 5/55
UR-503	Nussbaum, E.	Radon solubility in body tissues and in fatty acids. (Thesis)	9/17/57
UR-522	Hursh, J.B.	The limitations of urinary radium as a measure of radium body load.	4/ 1/58
UR-571	Hursh, J.B. Lovaas, A.	The biliary excretion of radium. (To be published in <u>Health Physics.</u>)	
UR-572	Hursh, J.B. Lovaas, A. Piccirilli, A. Putnam, T.E.	The urinary excretion of radium in dogs. (To be published in <u>Amer. J. Physiol.</u>)	
	Hursh, J.B. Gates, A.A.	Body content of radium in individuals with no known exposure. (<u>Federation Proc. 8: 358, 1949</u>)	
	Shapiro, J.	Radiation dosage from breathing radon and its daughter products. (<u>A.M.A. Arch. Ind. Health 14: 169-77, 1956</u>)	
	Hursh, J.B.	Natural occurrence of radium in man and in waters and in food. (<u>Brit. J. Radiol., Suppl. No. 7: 45-53, 1957</u>)	
	Nussbaum, E. Hursh, J.B.	Radon solubility in rat tissues. (<u>Science 125: 552-3, 1957</u>) (<u>Abstract. Radiation Research 5: 587-8, 1956</u>)	
	Nussbaum, E. Hursh, J.B.	Radon solubility in fatty acids and triglycerides. (<u>J. Phys. Chem. 62: 81-84, 1958</u>) (<u>Abstract. Radiation Research 7: 441, 1957</u>)	

1131311

UR 00184

TOXICITY OF RADIUM AND RADON

- | | | | |
|----------------------|-----------------------------|---|--------|
| | Morkeu, D.A. | The radiation dose to the kidney of the rat from inhaled radon. (<u>A.M.A. Arch. Ind. Health 20: 505-9, 1959</u>) | |
| | Shandley, P.D. | The radium content of common foods. (Thesis) | 1953 |
| | Morkeu, D.A. | The acute toxicity of radon. (<u>A.M.A. Arch. Ind. Health 12: 435-8, 1955</u>) (Thesis) | 1954 |
| | Putnam, T.E. | The urinary excretion of radium. (Thesis) | 1954 |
| AECU-4024
p.19-29 | Hursh, J.B. | Bioassay procedures for radium. | 8/ /58 |
| UN-76 | Bale, W.F.
Shapiro, J.V. | Radiation dosage to lungs from radon and its daughter products. (1st Intern. Conf. on the Peaceful Uses of Atomic Energy, Vol. 13, 233-6, 1956) | |

TOXICITY OF THORIUM

M-1949	Stern, E.	The biological action of thorium with emphasis on intravenous use of thorostrast (colloidal ThO ₂)	7/ /45
UR-13 AECD-2283	Ackerman, H. Allen, R.P. Bonner, G. Downs, W.L. Hodge, H.C. Maynard, E.A. Neuman, W.F. Scott, J.K. Sparks, A. Stokinger, H.E.	Preliminary studies of the toxicity of thorium.	2/26/48
UR-38 p.66-68	Hall, R.H.	Acute toxicity of inhaled thorium nitrate dust.	7/15/48
UR-45 p.72-74	Hall, R.H. Root, R.E.	Acute toxicity of inhaled thorium nitrate dust.	10/15/48
UR-103 p.55-59	Hall, R.H. Root, R.E. Stroud, C.	Inhalation toxicity of thorium fluoride.	1/31/50
UR-142 p.72-75	Hall, R.H.	Inhalation toxicity of thorium oxalate.	11/ 1/50
UR-190	Hall, R.H. Stroud, C.A. Scott, J.K. Root, R.E. Steadman, L.T. Stokinger, H.E.	Acute toxicity of inhaled thorium compounds.	11/13/51
UR-480	Thomas, R.G.	The metabolism of thorium ²³⁰ (Ionium) administered by intratracheal injection to the rat.	1/11/57
UR-561	Downs, W.L. Scott, J.K. Maynard, E.A. Hodge, H.C.	Studies on the toxicity of thorium nitrate.	12/16/59

TOXICITY OF THORIUM

- UR-562 Hodge, H.C.
Maynard, E.A.
Leach, L.S. The chemical toxicity of thorium dioxide following inhalation by laboratory animals. 1/ 6/60
- UR-563 Hutchinson, E. Bibliography on the biological effects of thorium. 1/18/60
- Scott, J.K.
Neuman, W.F.
Bonner, J.F. The distribution and excretion of thorium sulphate. (J. Pharmacol. Exptl. Therap. 106: 286-90, 1952)
- Hursh, J.B.
Steadman, L.T. Late findings in patients with retained thorotrast. II. Excretion and distribution of thorium-232 and its radium-224 daughter. (Abstract. Radiation Research 3: 235-6, 1955)
- Hursh, J.B.
Steadman, L.T.
Lecney, W.B.
Colodzin, M. The excretion of thorium and thorium daughters after thorotrast administration. (Acta Radiol. 47: 481-98, 1957)
- Hodge, H.C.
Thomas, R.G. Health hazards of inhaling insoluble uranium and thorium dusts. (Med. Sci. 5: 352-8, 1959)
- UN-479 Looney, W.B.
Hursh, J.B.
Archer, V.E.
Steadman, L.T.
Colodzin, M. A summary of radium and thorium excretion in humans. (1st Intern. Conf. on the Peaceful Uses of Atomic Energy, Vol. 11, 55-64, 1956)
- UN-739 Hodge, H.C.
Thomas, R.G. The questions of health hazards from the inhalation of insoluble uranium and thorium oxides. (2nd Intern. Conf. on the Peaceful Uses of Atomic Energy, Vol. 23, 302-5, 1958)

TOXICITY OF URANIUM

M-1513	Roberts, E.	Urinary alkaline phosphatase activity as a sensitive and early index of uranium poisoning.	5/ 1/44
M-1518	Hodge, H.C.	Summary of the toxicity results of one-month lung exposure studies to uranium compounds.	6/10/44
M-1523	Dale, P.P.	Proposed determinations of uranium in extracted teeth and alveolar bone of uranium employees as possible index of bodily storage.	6/29/44
M-1527	Stokinger, H.E.	Chemistry of uranium.	7/25/44
M-1542	Dale, P.P.	The effects of UO_2F_2 on the oral tissues.	8/30/44
M-1543	Miller, J.	Acute toxicity of UO_2F_2 .	9/ 5/44
M-1554	Stokinger, H.E. Dygert, P. Sanford, R.A.C. Siegal, G.	Effect of low calcium diet on the deposition of uranium in the skeleton and soft tissue of rats exposed to uranium dusts.	9/15/44
M-1570	Hodge, H.C. Neuman, W.F. Steadman, L.T. Haven, F.L. Dounce, A.L. Stokinger, H.E. Roberts, E. Metcalf, R.G.	Report of papers presented at tri-monthly meeting held in Chicago on 30 September and 1 October 1944 by University of Rochester group. [Subject - uranium toxicity and methods of study.]	11/ 9/44
M-1622	Stokinger, H.E.	Final report: UO_2F_2 inhalation study. A 37-day study at a mean concentration of 12.2 mg/m^3 of the A. Toxic effects of inhalation by laboratory animals. B. Tests of efficiency of respiratory protective devices.	8/ /44

TOXICITY OF URANIUM

M-1631	Voegtlin, C. Hodge, H.C.	Recommendation for "maximum allowable concentration" of certain uranium compounds in factory air, with a summary of experimental evidence.	2/15/45
M-1632	Roberts E. Spiegl, C.J.	The mechanism of bicarbonate action in uranium-poisoned rats.	6/ /44
M-1652	Spiegl, C.J. Roberts, E.	Vitamin C metabolism in uranium toxicity.	6/ /44
M-1653	Hodge, H.C.	First annual review of the studies of oral toxicity of various uranium compounds.	10/ 2/44
M-1654	Stokinger, H.E.	U ₃ O ₈ one-month study at a mean concentration of 17 mg/m ³ of the A. Toxic effects of inhalation by laboratory animals and B. Test of efficiency of respirators.	3/ /45
M-1674	Haven, F.L.	A histological study of the pancreas in acute uranium poisoning.	7/ 7/44
M-1677	Stokinger, H.E.	UO ₂ . A 30-day study at a mean concentration of 22.0 mg per cubic meter. A. Toxic effects of inhalation by laboratory animals. B. Tests of efficiency of respiratory protective devices.	2/ /45
M-1679	Maynard, E.A.	A 30-day experiment on the oral toxicity of UF ₄ in rats.	4/10/45
M-1690	Maynard, E.A.	A 30-day experiment on the oral toxicity of U ₃ O ₈ in rats.	4/24/45
M-1691	Neuman, W.F. Mulryan, B.J.	The effect of diet on acute uranium toxicity.	9/ /44

TOXICITY OF URANIUM

M-1696	O'Leary, J.C. O'Leary, J.F.	A study of the color in filtrates of uranium poisoned rat urines after precipitation with silver lactate-lactic acid reagent.	3/ /45
M-1698	Orcutt, J.A.	Studies of attempts to protect against the percutaneous absorption of $UO_2(NO_3)_2$.	4/20/45
M-1710	Orcutt, J.A. Smith, N.B.	Survey of local and systemic damage caused by application of uranium compounds to the skin and to the eye.	3/21/45
M-1711	Maynard, E.A.	Two month experiment on oral toxicity of UO_3 in rats.	6/13/45
M-1712	Roberts, E. Spiegl, C.J.	A 30-day study at mean concentration of 4.5 mg/m^3 of toxic effects of inhalation of uranium-nitrate dust in laboratory animals.	4/ /45
M-1713	Maynard, E.A.	One month experiment on the oral toxicity of UO_2 in rats.	5/ 7/45
M-1714	Maynard, E.A.	One month experiment on the oral toxicity of UO_2 acetate in rats.	5/ 8/45
M-1746	Berkowitz, H.L. Rothstein, A.	The effect of uranium poisoning on capillary permeability as measured by Evans Blue dye method.	8/ 9/45
M-1754	Maynard, E.A.	One month experiments on oral toxicity of UCl_4 in rats.	6/26/45
M-1770	Neuman, W.F. Wills, J.H. Adler, D.L.	The localization of uranium in the rat kidney.	9/ /45
M-1786	Haven, F.L.	Tolerance of rats to uranium salts.	9/ /45

TOXICITY OF URANIUM

M-1795	Spiegel, C.J. Schepartz, A.I.	Toxicology of UF_6 , following its introduction into the atmosphere.	10/ /45
M-1797	Dygert, H.P. Oberg, H.	Toxic effects of inhalation of UF_4 by laboratory animals, and tests of efficiency of respiratory protective devices in atmosphere of UF_4 .	4/ /45
M-1812	Weil, C. Horton, C. Pozzani, U. Wilson, H.	"Hi-grade" ore. One-month study at a concentration of 1.4 mg/cu meter of the effects of inhalation by laboratory animals. Final report.	12/ /45
M-1813	Hodge, H.C.	Review of the first year's work of uranium dust inhalation in experimental animals. Toxicological data of the inhalation studies of the various uranium compounds at high dust concentrations.	7/ /45
M-1815	Cobler, J.G.	Uranium tetrachloride. A 30-day study of the toxic effects of inhalation of dust by laboratory animals at 18 mg/cu meter.	7/ /45
M-1824	Cobler, J.G.	Uranium tetrachloride. UCl_4 . A 37-day study: toxic effects of inhalation by laboratory animals at concentration of 3.3 mg/m ³ .	10/ /45
M-1833	Stckinger, H.E. Dygert, H.P.	Uranium peroxide. A 23-day study at a concentration of 19.5 mg per cubic meter.	7/ /45
M-1835	Rothstein, A. Dittman, D. Berkowitz, H. Same, E.	Uranium trioxide. A 28-day study of toxic effects in laboratory animals resulting from inhalation of UO_3 dust at a concentration of 20 mg/m ³ .	11/ /45

1131318

TOXICITY OF URANIUM

M-1836	Pozzani, U.C. Weil, C. Wilson, H. Horton, C.	"High-grade" ore. One month study at a mean concentration of 4.8 mg/m ³ of the effects of inhalation by laboratory animals.	12/ /45
M-1838	Hodge, H.C.	Summary of experimental evidence of the toxicity of UO ₂ , U ₃ O ₈ , UF ₄ and "High-grade" ore.	10/ /45
M-1845	Maynard, E.A.	One month experiment on the oral toxicity of uranium nitrate in rats.	1/20/46
M-1846	Roberts, E. Bishop, C.W. Brodie, D.C. Wichser, F.W.	Uranium nitrate. UO ₂ (NO ₃) ₂ ·6H ₂ O. A one month study at mean concentration of 20 mg/m ³ of effects of inhalation by laboratory animals.	10/ /45
M-1873	Maynard, E.A.	30-day experiment on the oral toxicity of "UF ₄ -bluish" in rats.	2/ 4/46
M-1876	Hodge, H.C. Maynard, E.A.	Feeding certain uranium compounds to rats. Review of second year's work.	4/ /46
M-1877 AECD-2428	Crossland, R.S. Haven, F.L. Edwards, V.M.	Studies of unsaturation of phospholipid fatty acids of the liver, kidney, and blood of uranium-poisoned rats.	1/ /46
M-1883	Maynard, E.A.	One month experiment on the oral toxicity of uranium nitrate in mature rats.	2/ 9/46
M-1885	Maynard, E.A.	One month experiment on the oral toxicity of UO ₄ in rats.	2/ 1/46
M-1892	Dygert, H.P.	Uranium tetrafluoride. UF ₄ . 30-day study of a concentration of 4.8 mg UF ₄ /m ³ .	7/ /46

TOXICITY OF URANIUM

M-1899	Maynard, E.A.	One month experiments on the oral toxicity of uranium nitrate in rabbits.	7/15/46
M-1900	Wills, J.H. Main, E.R.	The effects of uranium on renal function.	7/31/46
M-1901	Roberts, E.	A 30-day study at a concentration of 0.5 mg/m ³ of the toxic effects of inhalation of uranium nitrate dust by laboratory animals.	8/ /46
M-1903	Rothermel, J.J.	A study of toxicological effects of inhalation of uranium tetrachloride dust at a concentration of 0.2 mg/m ³ .	4/ /45
M-1904	Dygert, H.P. Oberg, H.A.	A 34-day inhalation study at a mean concentration of 21 mg of uranium nitrate UO ₂ (NO ₃) ₂ ·6H ₂ O and tests of respiratory protective devices in atmospheres of UO ₂ (NO ₃) ₂ ·6H ₂ O.	9/ /46
M-1909	Dygert, H.P. Oberg, H.A. Sanford, R.	"High-grade" uranium ore-dust. A 30-day study at a concentration of 22 mg U/m ³ .	9/ /46
M-1913	Rothstein, A.	A 30-day study of toxicological effects resulting from inhalation of 20 mg/m ³ of Na ₂ U ₂ O ₇ by laboratory animals.	5/ /46
M-1926	Rothermel, J.J.	A study of toxicological effects of the inhalation of uranium tetrachloride dust at a concentration of 1.8 mg/m ³ .	6/ /46
M-1932	Neuman, W.F. Mulryan, B.J.	The effect of environmental temperature on acute uranium toxicity, and the changes in body temperature in response to uranium injections.	10/ /46

TOXICITY OF URANIUM

M-1933	Neuman, W.F. Malryan, B.J.	The effect of water intake on the acute toxicity of uranium.	10/ /46
M-1939	Rothermel, J.J.	A study of toxicologic effects of inhalation of uranium tetrachloride dust at a concentration of 0.4 mg/m ³ .	2/ /45
M-1942	Dygert, E.P. Oberg, H.A.	(NH ₄) ₂ U ₂ O ₇ ·4H ₂ O. A 30-day study of ammonium diuranate at a concentration of 20 mg per cubic meter, and tests of efficiency of respiratory protective devices in atmospheres of (NH ₄) ₂ U ₂ O ₇ ·4H ₂ O.	10/ /46
M-1943	Neuman, W.F.	The distribution and excretion of absorbed uranium. Part 1. Analytical procedures and methods.	10/ /46
M-1958	Rothstein, A.	Inhalation toxicity in laboratory animals exposed to 2.8 mg/m ³ of UO ₂ F ₂ dust for 30 days.	12/ /46
M-1977	Spiegl, C.J. Schlamowitz, M. Minor, J.	A 30-day study of toxic effects of inhalation of UF ₆ , following its introduction into the atmosphere at concentration of 0.3 mg/m ³ .	5/12/47
M-1978	Roberts, E.	Influence of single intravenous injection of graded dosage of soluble uranyl salts on urinary catalase and protein excretion, blood non-protein nitrogen, and renal histological changes in rabbits.	11/ /46
M-1980 AECD-2204	Allen, R. Neuman, W.F.	The treatment with 2,3-dimercaptopropanol (BAL) of acute systemic uranium intoxication in rats. (NNES Div. VI, Vol. 1, Chap. 25, Sec. 8) (<u>J. Pharmacol. Exptl. Therap.</u> 96: 95-98, 1949)	5/26/47

TOXICITY OF URANIUM

M-1982	Spiegel, C.J. Schepartz, A.I.	Toxicology of atmospheres containing UF ₆ . A study of exposure of animals to UF ₆ at a mean concentration of 3.0 mg UF ₆ /m ³ (2.0 mg U/m ³).	11/ /46
M-1983	Rothstein, A.	Inhalation toxicity of 0.19 mg/m ³ of UO ₂ F ₂ .	4/10/45
M-1984-R AECD-2127	Thompson, H.E. Steadman, L.T.	Insufflation studies in rabbits with dusts of uranium compounds. 1943-47. (NNES Div. VI, Vol. 1, Chap. 22)	6/11/48
M-1992	Rothstein, A.	Inhalation toxicity of 9.3 mg/m ³ of UO ₂ .	4/ /47
M-1993	Allen, R.P. Battaglia, J.A.	The effects of uranium dioxide powder applied subcutaneously to rabbits.	9/ /47
M-1994	Rothstein, A.	Inhalation toxicity of 2.0 mg/m ³ of UO ₂ . A five-week study.	5/ /47
M-1995	Rothstein, A.	Inhalation toxicity in laboratory animals exposed to 0.65 mg UO ₂ F ₂ /m ³ for 34 days.	8/ /47
M-1999	Orcutt, J.A. Neuman, M.W.	The toxicology of uranyl nitrate following percutaneous absorption.	11/20/45
M-2006 NDDC-1731	Sprague, G.F.	Control exposure chamber studies. (NNES Div. VI, Vol. 1, Chap. 21A, Sec. 3.1)	1/ 9/48
M-2014 AECD-1915	Neuman, W.F. Neuman, M.W. Main, E.R. Muiryan, B.J.	The deposition of uranium in bone. I. Animal studies. (NNES Div. VI, Vol. 1, Chap. 24, Sec. 1) (<u>J. Biol. Chem. 175: 705-9, 1948</u>)	2/ 9/48
M-2015 AECD-1916	Neuman, W.F. Neuman, M.W.	The deposition of uranium in bone. II. Radioautographic studies. (NNES Div. VI, Vol. 1, Chap. 24, Sec. 2) (<u>J. Biol. Chem. 175: 711-4, 1948</u>)	2/ 9/48

TOXICITY OF URANIUM

M-2016 AECD-1917	Neuman, W.F. Neuman, M.W. Main, E.R. Mulryan, B.J.	The deposition of uranium in bone. III. Effect of diet. (NNES Div. VI, Vol. 1, Chap. 24, Sec. 3) (<u>J. Biol. Chem. 175: 715-9, 1948</u>) (<u>Phys. Rev. 74: 1330-7, 1948</u>)	2/ 9/48
M-2017 AECD-2215	Neuman, W.F. Neuman, M.W. Main, E.R. Mulryan, B.J.	The deposition of uranium in bone. IV. <u>In vitro</u> adsorption studies. (NNES Div. VI, Vol. 1, Chap. 24, Sec. 4) (<u>J. Biol. Chem. 179: 325-33, 1949</u>)	3/10/48
M-2018 AECD-2018	Neuman, W.F. Neuman, M.W. Main, E.R. Mulryan, B.J.	The deposition of uranium in bone. V. Ion exchange studies. (NNES Div. VI, Vol. 1, Chap. 24, Sec. 5) (<u>J. Biol. Chem. 179: 335-40, 1949</u>)	3/23/48
M-2019 AECD-2019	Neuman, W.F. Neuman, M.W. Main, E.R. Mulryan, B.J.	The deposition of uranium in bone. VI. Ion competition studies. (NNES Div. VI, Vol. 1, Chap. 24, Sec. 6) (<u>J. Biol. Chem. 179: 341-8, 1949</u>)	4/ 6/48
UR-1 AECD-1780	Ashenburg, N.J.	Uranium tetrachloride. Two one-year inhalation toxicity studies of animals at 0.2 and 0.05 mg U/m ³ . (NNES Div. VI, Vol. 1, Chap. 21A, Sec. 3,4)	1/30/48
UR-2 AECD-2008	Ashenburg, N.J.	Uranium dioxide studies. (NNES Div. VI, Vol. 1, Chap. 21A, Sec. 3,5)	1/30/48
UR-4 AECD-1916	Spiegel, C.J.	The toxicity of uranium hexafluoride fume in animals exposed for one year to 0.05 and 0.2 mg U/m ³ respectively. (NNES Div. VI, Vol. 1, Chap. 21A, Sec. 3.3)	2/ 5/48

TOXICITY OF URANIUM

UR-6 AECD-1963	Wilson, H.B.	The relation of particle size of UO ₂ dust to toxicity following inhalation by animals. (NNES Div. VI, Vol. 1, Chap. 21C) (<u>J. Ind. Hyg. Toxicol. 30: 319-31, 1948</u>)	2/12/48
UR-7 AECD-1919	Rothstein, A.	Uranium tetrafluoride: two one-year inhalation toxicity studies of animals at 3.0 and 0.5 mg/m ³ respectively. (NNES Div. VI, Vol. 1, Chap. 21A, Sec. 3.6)	2/17/48
UR-8 AECD-1981	Rothstein, A. Larrabee, C.	The cell surface of yeast as the site of inhibition of glucose metabolism by uranium. (NNES Div. VI, Vol. 1, Chap. 25, Sec. 1) (<u>J. Cellular Comp. Physiol. 32: 247-59, 1948</u>)	2/18/48
UR-10 AECD-1920	Bishop, C. Roberts, E.	Some aspects of carbohydrate metabolism in normal animals and in animals poisoned with uranyl nitrate, hydrogen fluoride, and alloxan. (NNES Div. VI, Vol. 1, Chap. 23, Sec. 2)	2/19/48
UR-17 AECD-1968	Rothstein, A. Frenkel, A. Larrabee, C.	Certain characteristics of the complex of uranium with cell surface groups of yeast; the relationship of these groups to glucose metabolism. (NNES Div. VI, Vol. 1, Chap. 25, Sec. 2) (<u>J. Cellular Comp. Physiol. 32: 251-74, 1948</u>)	3/23/48
UR-21 p.48-50	Stokinger, H.E.	Daily intraperitoneal injection of uranyl nitrate in rats.	4/23/48
UR-21 p.51	Maynard, E.A.	Rats fed uranyl nitrate for compounds for one year.	4/23/48
UR-21 p.51	Maynard, E.A.	Dogs fed various uranium compounds for one year.	4/23/48

1131324

TOXICITY OF URANIUM

UR-21 p.52-55	Rothstein, A.	Mechanism of action of uranium on isolated cells.	4/23/48
UR-21 p.56	Neuman, W.F.	The effect of formalin on the uranium content of tissues.	4/23/48
UR-23 AECD-2212	Gruschow, J. Mann, W.	Uranium tolerance and citrate excretion. (NNES Div. VI, Vol. 1, Chap. 23, Sec. 3)	4/15/48
UR-24 AECD-2028	LaBelle, C. Booth, C. Barrett, R.	The retention of uranium dioxide in rabbits. (NNES Div. VI, Vol. 1, Chap. 21B)	4/19/48
UR-30 AECD-2129	Yaeger, R.G.	Uranyl nitrate. Four one-year inhalation toxicity studies of animals at 0.04, 0.25, "0.4" and 2.0 mg/m ³ . (NNES Div. VI, Vol. 1, Chap. 21A, Sec. 3.2)	5/17/48
UR-34 AECD-2150	Berke, H. Rothstein, A.	The ratio of amino acid nitrogen to creatinine in the urine as a sensitive test for uranium poisoning. (NNES Div. VI, Vol. 1, Chap. 23, Sec. 1) (<u>J. Pharmacol. Exptl. Therap. 96: 179-87, 198-208, 1949</u>)	5/25/48
UR-37	Bassett, S.H. Frenkel, A.W. Cedars, N. VanAlstine, H. Waterhouse, C. Cusson, K.Y.	The excretion of hexavalent uranium following intravenous administration. II. Studies on human subjects.	6/25/48
UR-38 p.31-35	Laskin, S. Wilson, H.B.	The relation of particle size of uranium dioxide dust to toxicity following inhalation by animals.	7/15/48
UR-38 p.35-43	Stokinger, H.E.	Deposition, accumulation, and elimination of uranium.	7/15/48
UR-38 p.43-44	Rothstein, A.	Mechanism of action of uranium on isolated cells.	7/15/48

TOXICITY OF URANIUM

UR-45 p.50-51	Wilson, H.B. Sylvester, G.E. Stokinger, H.E.	The relation of particle size of UO_2 to toxicity following inhalation by rabbits and rats.	10/15/48
UR-45 p.51-54	Wilson, H.B. Sylvester, G.E. Stokinger, H.E.	The effects of exposure of rabbits and rats to inhalation of hydrated UO_3 at approximately 3.6 mg/m^3 concentration and 0.3μ mass-median particle size.	10/15/48
UR-45 p.76	Smith, P.A.	Protective action of fluoride in uranium poisoning.	10/15/48
UR-50 AECD-2476	Neuman, W.F. Allen, R. Mulryan, B.J.	Preliminary observations of uranium metal on wound healing with reference to gas formation.	1/13/49
UR-51 AECD-2442	Sprague, G.F. Pettengill, A. Brown, B. Stokinger, H.E.	A second-year inhalation toxicity study of animals employing uranyl nitrate hexahydrate at $4/\text{mg/m}^3$. (NNES Div. VI, Vol. 1, Chap. 21A, Sec. 4)	12/19/48
UR-54 AECD-2477	Rothstein, A.	The metabolic effects of uranium on the yeast cell. (NNES Div. VI, Vol. 1, Chap. 25, Sec. 5)	1/11/49
UR-64 AECU-147	Sprague, G. Meier, R. Pettengill, A. Smith, F. Scott, J. Stokinger, H.	A two-week beryllium sulfate mist inhalation study in animals at a concentration of 100 mg/m^3 .	2/16/49
UR-67 AECD-2784	Hodge, H.C. Stokinger, H.E. Neuman, W.F. Bale, W.F. Brandt, A.E.	Suggested maximum allowable concentration of insoluble uranium compounds in air. (NNES Div. VI, Vol. 1, Chap. 26, Sec. 1)	4/7/49
UR-70 p.27-28	Maynard, E.A. Downs, W.L. Fuller, M.E.	Fat content of diet as a factor in the toxicity of uranyl nitrate hexahydrate when fed to male albino rats.	4/25/49

TOXICITY OF URANIUM

UR-75 AECD-2709	Allen, R.	The effects of uranium dioxide powder applied subcutaneously through an incision in the skin of rabbits.	5/23/49
UR-80 AECD-2783	Rothstein, A. Meier, R.C. Hurwitz, L. Berke, H.L. Larrabee, C.	The mechanism of action of uranium on cells. (NNES Div. VI, Vol. 1, Chap. 25, Sec. 4)	7/ 5/49
UR-81 AECD-2785	Hodge, H.C. Stokinger, H.E. Neuman, W.F.	Suggested maximum allowable concentrations of soluble uranium compounds in air. (NNES Div. VI, Vol. 1, Chap. 26, Sec. 2)	6/30/49
UR-82 AECD-2786	Neuman, W.F.	Urinary uranium as a measure of exposure hazard. (NNES Div. VI, Vol. 1, Chap. 26, Sec. 3). (<u>Ind. Med. and Surg.</u> 19: 185-91, 1950)	6/29/49
UR-87 p.17-18	Wilson, H.B.	The effects of exposure of rabbits and rats to inhalation of hydrated uranium trioxide dust at approximately 10 mg/m ³ concentration and 0.45 μ mass-median particle size.	7/30/49
UR-103 p.29-35	Wilson, H.B. Sylvester, G.E. LaBelle, C.W. Scott, J.K. Smith, F.A. Laskin, S. Lauterbach, K.E.	The relation of particle size of hydrated uranium trioxide dust to toxicity following inhalation by rabbits and rats.	1/31/50
UR-116 p.49-54	LaBelle, C.W.	The distribution and transport of uranium after deposition in the rabbit by inhalation.	4/27/50
UR-117	Hurwitz, L.	A kinetic study of normal and uranium inhibited hexose metabolism in yeast.	5/ 3/50
UR-127 p.41-45	Stokinger, H.E. Wilson, H.B. Sylvester, G.E. Dzuiba, S.P.	Lobar partition of inhaled U ₃ O ₈ particles.	8/ .1/50

1131327

TOXICITY OF URANIUM

UR-128* AECD-2905	Maynard, E.A. Rodge, H.C. Downs, W.L.	Demonstration of antidotal action of polyphosphate in metal poisoning. (<u>Am. J. Physiol.</u> 163: 733-4, 1950)	8/ 3/50
UR-142 p.41-51	LaBelle, C.W. Stokinger, H.E. Dohl, J.M.	Organ weights and the calculation of transport of insoluble particles from the lung.	11/ 1/50
UR-142 p.52-55	Maynard, E.A. Downs, W.L. LeSher, M.F.	Antidotal action of polyphosphates in uranium poisoning.	11/ 1/50
UR-164 p.38-40	Wilson, H.B. Sylvester, G. Ashworth, B.	Effects of particle size and purity on the toxic response of UO ₂ by inhalation.	5/ 9/51
UR-166*	LaFrance, L.J.	A partial bibliography on uranium and its compounds with especial reference to pharmacology and toxicology. (NNEs Div. VI, Vol. 1, Chap. 27, Sec. 2)	5/11/51
UR-197	Wilson, H.B. Sylvester, G.E. Laskin, S. LaBelle, C.W. Scott, J.K. Stokinger, H.E.	The relation of particle size of uranium dioxide dust to toxicity following inhalation by animals. II. (<u>Arch. Ind. Hyg. Occupational Med.</u> 6: 93-104, 1952)	6/ 6/52
UR-204	Tidball, C.S. Gosselin, R.E. Downs, W.L. Megirian, R. Maynard, E.A. Rothstein, A.	The toxicology of a phosphate polymer and its use as a uranium antidote. (Thesis-Tidball)	5/16/52
UR-213 p.12-20	Megirian, R. Gosselin, R. Meier, R. Dzuiba, S.	The influence of polyphosphates on uranium excretion.	7/31/52

*Journal publication only.

TOXICITY OF URANIUM

- Maynard, E.A.
Randall, C.
Hodge, H.C.
Scott, J.K. Effects of feeding uranium nitrate hexahydrate in the diets of breeding white rats. (J. Pharmacol. Exptl. Therap. 95: 421-8, 1949)
- Hodge, H.C. Pharmacologic tools in the study of the mechanism of uranium poisoning. (Arch. Ind. Hyg. Occupational Med. 2: 300-11, 1950)
- Dagirmanjian, R.
Maynard, E.A.
Hodge, H.C. The effects of calcium disodium ethylenediamine tetraacetate on uranium poisoning in rats. (J. Pharmacol. Exptl. Therap. 117: 20-28, 1956)
- Maynard, E.A.
Leach, L.J.
Sylvester, G.E.
Wilson, H.B.
Scott, J.K.
Hodge, H.C.
Lauterbach, K.E.
Armstrong, R.D. Chronic toxicity of inhaled uranium dioxide. (Presented at the 1958 Industrial Health Conference, Atlantic City, New Jersey.)
- Megirian, R. The metabolic fate of synthetic metaphosphates and their influence on uranium excretion. (Thesis) 1953
- Dagirmanjian, R. The effects of calcium versenate on uranium poisoning. (Thesis) 1954
- White, N.G. Studies of the deposition of air-borne submicron UO_2F_2 dust in the respiratory tract of rabbits during normal respiration. (Thesis) 1954
- AECD-2143 Frenkel, A.W. The effect of uranyl-chloride on the respiration and photosynthesis of *Chlorella pyrenoidosa*. 10/30/47

TOXICITY OF URANIUM

AECD-2329	Dale, F.P.	Oral conditions among ten enlisted men chronically exposed to UF ₆ for six hours.	11/30/47
HASL-58 p.30-33	Maynard, E.A. Downs, W.L.	Toxicology and pharmacology - animal data. (Symposium on Occupational Health Experience and Practices in the Uranium Industry, New York City, N.Y., 1958)	9/ /59
p.136-38	Hursh, J.B.	Urinary uranium as an indicator of dose to exposed personnel.	
p.139-40	Neuman, W.F.	General comments on urinary uranium analysis.	
MDDC-1562	Rothstein, A.	The mechanism of action of uranium on carbohydrate metabolism of yeast.	11/20/47
UN-73	Hodge, H.C. Dounce, A.L. Haven, F.L. Neuman, W.F. Rothstein, A. Voegtlin, C. Wills, J.E.	Mechanism of uranium poisoning. (1st Intern. Conf. on the Peaceful Uses of Atomic Energy, Vol. 13, 229-32, 1956) (A.M.A. <u>Arch. Ind. Health</u> 14: 43-47, 1956)	

TOXICITY OF ZIRCONIUM

UR-38 p.76	Maynard, E.A.	Acute toxicity of zirconium by injection.	7/15/48
UR-45 p.90	Maynard, E.A. Downs, W.L.	Intraperitoneal injection of zirconyl nitrate.	10/15/48
UR-152 p.109-16	Spiegel, C.J. Calkins, M.C.	ZrCl ₄ mist inhalation at 20 mg/m ³ : deposition and retention in tissues.	2/ 1/51

MISCELLANEOUS SUBJECTS, REPORTS ON

M-1692	Neuman, W.F. Carlson, A.B.	An investigation of methods for laundering materials contaminated with uranium.	2/ /45
M-1755		Report of Industrial Tolerance Conference, Washington, D.C., January 23-24, 1945.	
M-1941	Sprague, G.F., Jr.	A 30-day study of chamber-exposed control animals.	10/ /46
M-1952 MDDC-1764	Rekers, P.E.	Homotransplantation of the mammalian adult kidney.	12/18/46
M-1964	Sprague, G.F., Jr. Harrison, W.	A 36-day study of chamber exposed control animals.	8/ /46
M-1979	Sprague, G.F., Jr.	A three-month study of non-exposed control animals.	2/ /46
M-1990	Sprague, G.F., Jr. Harrison, W.	Report on animal controls for inhalation exposure studies. A 90-day study.	10/ /45
UR-21 p.81	Stokinger, H.E.	Development of lung function test.	4/23/48
UR-28 AECD-2062	Novitski, E. Stern, C.	The viability of individuals heterozygous for recessive lethals. (<u>Science</u> 108: 538-9 1948)	4/29/48
UR-49	Howland, J.W.	Synopsis of analytical facilities at the University of Rochester Atomic Energy Project.	11/29/48
UR-96 p.66-71	Gosselin, R.E.	Studies on the phagocytosis of inorganic particles by rabbit cells <u>in vitro</u> . Preliminary notes.	11/ 3/49
UR-108	Carlson, A.B. Neuman, W.F.	The removal of uranium compounds from cloth, a laundry problem.	5/ 8/50

MISCELLANEOUS SUBJECTS, REPORTS ON

UR-115 AECD-2874	Watts, N.P. McConnell, K.P.	Effect of polonium ²¹⁰ and selenium ⁷⁵ in experimental <u>Schistosoma mansoni</u> infection in mice. (<u>Am. J. Hyg. 53: 11-16, 1951</u>)	4/27/50
UR-138	Duffy, B.J., Jr. Howland, J.W.	Radioiodine (I ¹³¹) principles of diagnosis and treatment of thyroid disease. (<u>N.Y. State J. Med. 51: 1399-1405, 1951</u>)	10/25/50
UR-152 p.54-58	Furth, F.W. Scott, J.K.	The therapeutic effect of aureomycin on <u>Bartonella muris</u> infection in rats.	2/ 1/51
UR-152 p.65-75	Kingsley, R.D. Hogg, I., Jr. Payne, J.T. Morton, J.H.	Studies in prolonged anesthesia in swine and dogs.	2/ 1/51
UR-155	Crump, S.L.	Present status of variance component analysis. (<u>Biometrics 7: 1-16, 1951</u>)	1/25/51
UR-156*	Mason, K.E. Shaver, S.L. Hodge, H.C. Maynard, E.A.	Extensive intratubular and extratubular edema of the rat testis compatible with spermatogenic function. (<u>Anat. Record 109: 402-3, 1951</u>)	
UR-187	Duffy, B.J., Jr. Morgan, H.R.	ACTH and cortisone aggravation of the febrile response of rabbits to bacterial endotoxin. (<u>Proc. Soc. Exptl. Biol. Med. 78: 687-9, 1951</u>)	10/11/51
UR-194	Otis, E.M. Brent, R.	Equivalent ages in mouse and human embryos. (<u>Anat. Record 120: 33-64, 1954</u>)	4/ 2/52
UR-222 p.37-41	Casarett, G.W.	A new and simple differential morphology stain for spermatozoa. (<u>Stain Technol. 28: 125-7, 1953</u>)	11/ 3/52

*Journal publication only.

MISCELLANEOUS SUBJECTS, REPORTS ON

UR-222 p.50	Dutton, A.M.	Application of some multivariate analysis techniques to data from radiation experiments. (Abstract. Biostatistics Conf., Iowa, July 16-18, 1952)	11/ 3/52
UR-222 p.56	Mermagen, H.	Cyclotron hazards and their management. (Abstract. Am. Ind. Hyg. Assoc. Rad. Div., Ohio, April 21-24, 1952)	11/ 3/52
UR-240	Casarett, G.W.	Obstructive pulmonary emphysema and bronchial obstruction by lymphatic tissue in aging rats. (<u>J. Gerontol. 8: 146-9, 1953</u>)	2/19/53
UR-242 p.37-38	Blair, H.A.	Book review of <u>Symposium on Radiobiology. The Basic Aspects of Radiation Effects on Living Systems</u> , by James J. Nickson, ed., Wiley and Sons, 1952.	2/26/53
UR-268 p.22	Miller, L.L. Fancher, J.A. Bale, W.F.	An hepatic factor essential for maximal synthesis of protein by the Walker tumor in the rat. (Abstract. 44th Annual Meet. of the Am. Assoc. for Cancer Research, Inc., Chicago, Apr. 9-11, 1953)	9/ 2/53
UR-268 p.23-24	Blair, H.A.	Review of <u>Maximum Permissible Amounts of Radioisotopes in the Human Body and Maximum Permissible Concentrations in Air and Water</u> . (N.B.S. Handbook 52)	9/ 2/53
UR-310	Whipple, G.H. Stannard, J.N. Miller, G.J. Ingram, M.L. Mercer, T.T.	Personnel protection in the radioactive inhalation program.	3/23/55
UR-372*	Ingram, M.	Some constructive applications of atomic energy. (<u>J. Am. Med. Women's Assoc. 10: 37-40, 1955</u>)	

*Journal publication only.

MISCELLANEOUS SUBJECTS, REPORTS ON

UR-374*	Adams, S. Slater, I.H.	The action of diethylpropane- diol and diethylbutanediol on isolated sciatic nerve and ileum. (<u>Proc. Soc. Exptl. Biol. Med. 91: 202-4, 1956</u>)	
UR-380	Krolak, L.J. Davis, T.P.	The measurement of diffuse reflectance of cloth and skin samples.	2/18/55
UR-402 UN-260	Stannard, J.N.	Is the concept of "critical organ" valid in determining the maximum permissible level for exposure to radioactive materials? (1st Intern. Conf. on the Peaceful Uses of Atomic Energy, Vol. 13, 205-9, 1956)	6/30/55
UR-428	Gosselin, R.E.	The uptake of radiocolloids by macrophages <u>in vitro</u> . A kinetic analysis with radioactive colloidal gold. (<u>J. Gen. Physiol. 39: 625- 49, 1956</u>)	2/22/56
UR-482	Krieg, D.R.	A study of gene action in ultraviolet-irradiated bacteriophage. (<u>Virology 8: 80-98, 1959</u>) (Thesis)	5/ 7/57
UR-483	Henderson, B.J. Baxter, R.C. Tuttle, L.W.	The effect of highly irradia- ted food medium on life span and development of <u>Drosophila melanogaster</u> . (Thesis-Henderson)	4/23/57
UR-516	Baxter, R.C. Tuttle, L.W.	The unreliability of the intra- peritoneal injection route and the validity of experiment- al observations...	3/ 3/58

*Journal publication only.

MISCELLANEOUS SUBJECTS, REPORTS ON

- Crump, S.L.
Izzo, J. A clinical comparison of modified insulins. (J. Clin. Invest. 29: 1514-27, 1950)
- Wedd, A.M.
Blair, H.A. Action of coumingine on heart muscle. (Proc. Soc. Exptl. Biol. Med. 78: 271-4, 1951)
- Wedd, A.M.
Blair, H.A. The action of procaine on the heart. (Anesthesiology 12: 261-9, 1951)
- Wedd, A.M.
Blair, H.A.
Warner, R.S. The action of procaine amide on the heart. (Am. Heart J. 42: 399-405, 1951)
- Trunnell, J.B.
Duffy, B.J., Jr.
Marshall, V.F.
Whitmore, W.F.
Woodard, H.O. The use of progesterone in treatment of cancer of the prostate. (J. Clin. Endocrinol. 11: 663-76, 1951)
- Frazell, E.L.
Duffy, B.J., Jr. Hürthle cell cancer of the thyroid: a review of 40 cases. (Cancer 4: 952-6, 1951)
- Hodge, H.C.
Fosdick, L.S.
Sognaes, R.F. Symposium on dental caries. (Ann. Dentistry 10: 127-49, 1951)
- Duffy, B.J., Jr.
Howland, J.W. Radiophosphorus (P^{32}) in diagnosis and treatment. (N.Y. State J. Med. 52: 551-4, 1952)
- Wedd, A.M.
Blair, H.A. The action of acetyl-strophanthidin on heart muscle. (J. Pharmacol. Exptl. Therap. 104: 334-9, 1952)
- Crump, S.L. A clinical comparison of modified insulins. II. The biometrical aspects of the problem. (Bio-metrics 8: 210-5, 1952)

MISCELLANEOUS SUBJECTS, REPORTS ON

- Hein, J.W.
Smith, F.A.
Gardner, D.E. Further studies on the effect of sodium monofluorophosphate in experimental hamster caries. (J. Dental Research 31: 477, 1952)
- Segal, H.L.
Miller, L.L.
Plosscone, R.P.
Haroutunian, L.M. The Shay rat as an assay animal for anti-ulcer factors: III. Paper chromatography and other chemical studies of Shay rat anti-ulcer factors. (Gastroenterology 21: 551-5, 1952)
- Lehmann, E.E.
Bishop, F.W. We streamlined our glove technic. (Amer. J. Nurs. 52: 176-7, 1952)
- Hodge, H.C. Cytochemistry - a critical approach. (J. Am. Chem. Soc. 75: 4629, 1953)
- Morrow, P.E. Pneumotachygraphy in the study of respiratory dysfunction. (Abstract. Am. Ind. Hyg. Assoc. Quart. 13: 128, 1952)
- Morrow, P.E. A portable pneumotachograph and its application to a study of human and canine respiration. (Abstract. Federation Proc. 11: 423, 1953)
- Strain, W.H.
Dutton, A.M.
Heyer, L.
Ramsey, G. Experimental studies on the acceleration of burns and wound healing. (Progress report from the Dept. of Radiology, U. of R. Medical Center - 1953)
- Spar, I.L. Antigenic differences among early developmental stages of *Rana pipiens*. (J. Exptl. Zool. 123: 467-98, 1953)
- Crump, S.L. Some aspects of experimental design. (Ind. Quality Control 10: 14-16, 1954)

MISCELLANEOUS SUBJECTS, REPORTS ON

- Slater, I.H.
Megirian, D.
Leary, D.E. Convulsant action of desmethoxy-
beta-erythroidine. (Federation
Proc. 13: 406, 1954)
- Toribara, T.Y. Beam-condensing system for Beckman
IR-2 infrared spectrophotometer.
(Anal. Chem. 26: 2003, 1954)
- Mason, W.B.
Bickmore, J.T. Some observations on the
effects of inorganic salts on
the decolorization of aqueous
methylene blue. (Abstract.
Radiation Research 3: 337,
1955)
- Bickmore, J.T.
Mason, W.B. Kinetics of the radiation-induced
decolorization of aqueous
methylene blue. (Abstract.
Radiation Research 3: 214, 1955)
- Brudevold, F.
Steadman, L.T. A study of copper in human
enamel. (J. Dental Research 34:
209-16, 1955)
- Tuttle, L.W. Book review of Basic Mechanisms
in Radiobiology. II. Physical
and Chemical Aspects, by John L.
Magee, Martin D. Kamen, and
Robert L. Platzman (editors).
(J. Am. Chem. Soc. 77: 2032,
1955)
- Brudevold, F.
Steadman, L.T. The distribution of lead in
human enamel. (J. Dental Research
35: 430-7, 1956)
- Brudevold, F.
Steadman, L.T. A study of tin in enamel. (J.
Dental Research 35: 749-52, 1956)
- Brudevold, F.
Steadman, L.T.
Gardner, D.E.
Rowley, J.
Little, M.F. Uptake of tin and fluoride
by intact enamel. (J. Am. Dental
Assoc. 53: 159-64, 1956)

MISCELLANEOUS SUBJECTS, REPORTS ON

- DiStefano, V.
Leary, D.
Feldman, I. The effect of serotonin on cerebral oxygen tension and evoked electrical activity in the cerebral cortex. (Abstract. Federation Proc. 15: 417, 1956)
- DiStefano, V.
Leary, D.E.
Doherty, D.G. The pharmacology of β -aminoethylisothiuronium bromide in the cat. (J. Pharmacol. Exptl. Therap. 117: 425-33, 1956)
- Feldman, I. Use and abuse of pH measurements. (Anal. Chem. 28: 1859-66, 1956)
- Gabourel, J.D.
Gosselin, R.E. Metabolic products of C^{14} -labeled atropine in mice. (Federation Proc. 15: 425-6, 1956)
- Howland, J.W. Ionizing radiation; its nature, detection and control. (N.Y. State J. Med. 56: 2207-11, 1956)
- Howland, J.W. The problem of control of hazards from stray radiations. (N.Y. State J. Med. 56: 668-71, 1956)
- Mason, W.B. Book review of Basic Mechanisms in Radiobiology. III. Biochemical Aspects, by Harvey M. Patt (editor). (Arch. Biochem. Biophys. 62: 250, 1956)
- Rahn, H.
Sadoul, P.
Farhi, L.E.
Shapiro, J. Distribution of ventilation and perfusion in the lobes of the dog's lung in the supine and erect position. (J. Appl. Physiol. 8: 417-26, 1956)
- Wedd, A.M.
Blair, H.A. A comparison of effects of lanatoside C and digoxigenin on heart muscle. (Arch. Intern. Pharmacodynamie 107: 127-32, 1956)

MISCELLANEOUS SUBJECTS, REPORTS ON

- Whipple, G.H., Jr. The management of power reactor wastes. (Am. Ind. Hyg. Assoc. Quart. 17: 421-5, 1956)
- Cabot, C.
Mason, W.B.
Bickmore, J.T. Studies on the decolorization of aqueous thionine solutions of x-rays. (Abstract. Radiation Research 7: 307, 1957)
- Chen, P.S., Jr.
Emmel, V.M.
Benjamin, J.A.
DiStefano, V. Studies on the isolated dog ureter. The pharmacological action of histamine, levarterenol and antihistamines. (Arch. Intern. Pharmacodynamie 110: 131-41, 1957)
- Glasser, S.R. Influence of goitrogens on induction of deciduoma in rat uterus. (Abstract. Federation Proc. 16: 47, 1957)
- Little, K.D.
DiStefano, V.
Leary, D.E. LSD and serotonin effects on spinal reflexes in the cat. (J. Pharmacol. Exptl. Therap. 119: 161, 1957)
- Neuman, W.F. Why nuclear bomb tests must cease. (Unitarian Register 136: 6, 1957)
- Whipple, G.H. Jr. Health physics instrumentation for a power reactor. (Elec. Eng. 76: 606-11, 1957)
- Johnstone, D.E.
Michaelson, S.M.
Tuttle, L.
Howland, J.W. Attempts to produce localized Shwartzman reaction in seven species of animals. (Proc. Soc. Exptl. Biol. Med. 99: 15-16, 1958)
- Morken, D.A.
Morrow, P.E. A remote control and measuring system for physiological study. (Proc. of the 1958 National Telemetering Conf., June 2-4, Baltimore, Md., Institute of the Aeronautical Sciences, New York, 1958, pp. 103-6)

MISCELLANEOUS SUBJECTS, REPORTS ON

- Morrow, P.E.
Gibb, F.R. The deposition of a sub-micronic aerosol in the respiratory tract of dogs. (Am. Ind. Hyg. Assoc. J. 19: 196-200, 1958)
- Neuman, W.F. Fallout fable. (New Republic 138: 8, 1958)
- Neuman, W.F. To test or not to test. (New Republic 138: 17, 1958)
- Neuman, W.F. 23 West Fishing. (New Republic 138: 20, 1958)
- Stannard, J.N. Consideration of inhalation hazards in the light of present practices in internal dose estimation. (Abstract. Health Physics 1: 222-3, 1958)
- Stannard, J.N. Dosage and biological effects of internal radioactivity. (A.M.A. Arch. Ind. Health 18: 95-101, 1958)
- Steadman, L.T.
Brudevold, F.
Smith, F.A. Distribution of strontium in teeth from different geographical areas. (J. Am. Dental Assoc. 57: 340-4, 1958)
- DellaRosa, R.J.
Smith, F.A.
Stannard, J.N. The renal clearance of strontium and calcium in dogs. (Abstract. Federation Proc. 18: Part I, 383, 1959)
- Weiss, C.
Passow, H.
Rothstein, A. Autoregulation of flow in isolated rat kidney in the absence of red cells. (Am. J. Physiol. 196: 1115-8, 1959)
- Wilson, R.H. Amateur scientist--reptiles in the home. (Scientific American 200: 1, 1959)

MISCELLANEOUS SUBJECTS, REPORTS ON

- Dagirmanjian, R. Peripheral effects of a
Boyd, E.S. tetrahydrocannabinol.
(Abstract, Federation Proc.
19: 267, 1960)
- Salomon, K. Book review of Biochemie der
Hormone, by Prof. Dr. phil.
Theodor Bersin. (J. Am. Chem.
Sec. 82: 1012, 1960)
- Feldman, I. Deformation of the uranyl entity
in uranyl-malate, -tartrate
and -citrate tridentate chelates.
(To be published in J. Phys.
Chem. July-Aug., 1960) (See
UR-559)
- Feldman, I. Equilibrium constants for the
North, C.A. formation of poly-nuclear
Hunter, H.B. tridentate 1:1 chelates in
uranyl-malate, -citrate, and
-tartrate systems (To be
published in J. Phys. Chem.
July-Aug., 1960) (See UR-559)
- Lie, R. A statistical approach to
urinalysis. (Presented at the
Bio-assay and Analytical
Chemistry Meeting, Gatlinburg,
Tennessee, October, 1959. To
be published in Proceedings.)
- Clarkson, T.W. The transport of monovalent
Rothstein, A. cations by the isolated small
intestine of the rat. (To be
published in Am. J. Physiol.)
- Dale, P.F. Experimental dental caries. 1948
(Thesis)
- Quinn, G.P. Investigation of some curare-
like compounds (Thesis) 1948
- Shourie, K.L. Calcium and dental caries. (Thesis) 1949
- O'Leary, J.J. The paralyzing and anti-convulsant 1951
effects of compounds acting in
the central nervous system. (Thesis)

MISCELLANEOUS SUBJECTS, REPORTS ON

Dresel, P.E.	Observations on some compounds acting on the central and autonomic nervous systems. (Thesis)	1952
Hein, J.W.	Experimental studies of oral health; evaluation of certain water-soluble chlorophyll derivatives. (Thesis)	1953
Chen, P.S., Jr.	Studies on the renal excretion of calcium. (Thesis)	1954
Megirian, D.	A neuropharmacological study of beta-erythroidine and its derivatives. (Thesis)	1954
Adams, S.	Comparative observations on the action of 2,2-Diethyl-1,3-Propanediol, and anticonvulsant, and its convulsant homologue on the spinal cord and isolated peripheral systems. (Thesis)	1955
Cleveland, R.S.	An investigation of the effect of x-irradiated lusteroid on luminous bacteria. (Thesis)	1955
Bickmore, J.T.	Factors influencing the rate and course of chemical reactions induced in aqueous solutions by x-rays: studies on methylene blue. (Thesis)	1956
Gabourel, J.D.	Detoxication of atropine in mice and rats. (Thesis)	1957
Little, K.D.	The effects of D-lysergic acid diethylamide and serotonin on spinal reflexes. (Thesis)	1957
AECU-742	Watts, N.P. Boyd, G.A.	<u>Schistosoma mansoni miracidium</u> under phase difference micro- scopy. 11/ 4/49

MISCELLANEOUS SUBJECTS, REPORTS ON

MDDC-1209	Grobman, A.E.	On the association of certain hematomas with myelencephalic blebs in the mouse.	8/16/46
MDDC-1224	Tihen, J.A. Charles, D.R. Sippel, T.C.	Inherited <u>situs inversus viscerum</u> in mice. (<u>J. Heredity</u> 39: 29-31, 1948)	
WASH-1023 (p.107-12)	Feldman, I.	Some hydrolysis concepts related to the solubility of metallic compounds <u>in vitro</u> and <u>in vivo</u> . (Proc. 4th Ann. Meet. Ric-Assay Annal. Chem., Nov. 1958)	9/15/59
(p.113-36)	Morrow, P.E.	Some physical and physiological factors controlling the fate of inhaled substances.	
(p.137-55)	Casarett, L.J.	Mechanism of clearance of inhaled particulates from the lung.	
UN-72	Stannard, J.N. Blair, H.A. Baxter, R.C.	Irreversibility of damage produced by alpha emitters. (1st Intern. Conf. on the Peaceful Uses of Atomic Energy, Vol. 11, 113-7, 1956)	
UN-738	Stannard, J.N.	An evaluation of inhalation hazards in the nuclear energy industry. (2nd Intern. Conf. on the Peaceful Uses of Atomic Energy, Vol. 23, 306-12, 1958)	
UN-1542	Stannard, J.N.	Training programs and challenges in nuclear energy and the life sciences. (2nd Intern. Conf. on the Peaceful Uses of Atomic Energy, Vol. 1, 318-20, 1958)	

BOOKS

Conference on Metabolic Aspects of Convalescence, Josiah Macy, Jr. Foundation, N.Y. Transactions of the Fifteenth Meeting, 1947.
pp. 71-79. Clinical methods and their limitations: Practical problems and hazards in the application of labelled compounds to clinical investigations, by W. F. Bale.

Advances in Biological and Medical Physics, Volume 1, N.Y., Academic Press, Inc., 1948. pp. 387-408. The effects of irradiation from the atomic bomb on the Japanese, by J. W. Howland and S. L. Warren.
(MDDC-1301)

A Symposium on the Use of Isotopes in Biology and Medicine, Madison, Wisconsin, Univ. of Wisconsin Press, 1948. pp. 395-408. Health hazards in the use of radio-active isotopes, by W. F. Bale.

Technique of Organic Chemistry, ed. by A. Weissberger, Volume 1: Physical Methods of Organic Chemistry, N.Y., Interscience Publishers, Inc., 1949. Chapter 30. Determination of radioactivity, by W. F. Bale and J. F. Bonner, Jr.

Annual Review of Physiology, 1950, Stanford, Calif., Annual Reviews, Inc., 1950. pp. 399-420. Conduction and synaptic transmission in the nervous system, by H. A. Blair.

Conference on Metabolic Interrelations, Josiah Macy, Jr. Foundation, N.Y. Transactions of the Second Conference, 1950. pp. 32-72. Bone as a problem in surface chemistry, by W. F. Neuman.

Pneumoconiosis (Sixth Saranac Symposium), N.Y., Paul B. Hoeber, Inc., 1950. Part IV. The beryllium problem.

Chapter 15. Introduction. J. W. Howland.

Chapter 17. Pathology of acute experimental beryllium poisoning: Changes resulting in venous blood from the intravenous administration of beryllium sulfate. J. K. Scott.

Chapter 18. Preliminary data on rat feeding with beryllium. E. A. Maynard, W. L. Downs and H. C. Hodge.

Chapter 19. Certain aspects of the acute toxicity of beryllium injected intraperitoneally. H. C. Hodge, W. L. Downs and E. A. Maynard.

BOOKS

- Chapter 20. Preliminary studies in the toxicology of beryllium: The effect of intratracheal injection of beryllium in experimental animals. C. W. LaBelle and M. R. Cucci.
- Chapter 21. Initial studies of the toxicity of inhaled beryllium sulfate dust and beryllium metal fume. G. F. Sprague, C. W. LaBelle, A. G. Pettengill and H. E. Stokinger.
- Chapter 22. A review of analytical methods for beryllium. W. F. Neuman.
- Chapter 23. An analysis of dust and fume hazards in a beryllium plant. S. Laskin, R. A. N. Turner, and H. E. Stokinger.
- Chapter 24. Summary of the beryllium problem in connection with atomic energy production. J. W. Howland.

A Manual of Artificial Radioisotope Therapy, ed. by P. F. Hahn, N.Y., Academic Press, Inc., 1951. Chapter 6. Radioactive iodine in the diagnosis and treatment of hyperthyroidism, by J. B. Hursh and J. W. Karr.

A Monograph of the Collemoidea or Springtail Insects of New York State, by E. A. Maynard, Ithaca, N.Y., Comstock Publishing Co., 1951.

Fluoridation as a Public Health Measure, ed. by J. H. Shaw, Washington, D.C., American Association for the Advancement of Science, 1954. pp. 79-109. Some public health aspects of water fluoridation, by H. C. Hodge, and F. A. Smith.

Technique of Organic Chemistry, ed. by A. Weissberger, Volume 1: Physical Methods of Organic Chemistry. Part III, chapter 30, pp. 2491-2515. Radioactivity with scintillation counters, by J. F. Bonner.

Pharmacology in Medicine, ed. by W. A. Brill, N.Y., McGraw-Hill Book Co., Inc., 1954.

Part 14. The Metals and Radioactive Elements.

Chapter 52. Gold, silver, manganese and other minor metals, by (pp. 1-11) A. Rothstein.

BOOKS

Chapter 54. Role of the skeleton in pharmacological and toxicological responses, by W. F. Neuman and H. C. Hodge.

Part 15. Gases, Vapors, and Dusts.

Chapter 59. Nonadsorbable dusts, by J. K. Scott and H. C. Hodge.

Pharmacology in Medicine, ed. by V. A. Drill, N.Y., McGraw-Hill Book Co., 2nd ed., 1958.

Part 15. The Metals and Radioactive Elements.

Chapter 53. Gold, silver, manganese and other minor metals, (pp.789-99) by A. Rothstein.

Chapter 54. Radioactive elements, by Thomas R. Noonan (pp.800-07)

Chapter 55. The role of the skeleton in pharmacologic and toxicologic responses, by William F. Neuman and H. C. Hodge.

Part 16. Gases, Vapors, and Dusts.

Chapter 60. Nonadsorbable dusts, by J. K. Scott and H. C. Hodge.

Annals of the New York Academy of Sciences. Recent Advances in the Study of the Structure, Composition, and Growth of Mineralized Tissues, ed. by R. W. Miner, N.Y., The New York Academy of Sciences, April 27, 1955. Vol. 60, Art. 5.

(pp.661-69) Some achievements and problems in studying the solubility of the mineral of the hard tissues, by H. C. Hodge.

(pp.685-95) Recrystallization in bone mineral, by W. F. Neuman and J. H. Weikel, Jr.

Metabolic Interrelations, Josiah Macy, Jr. Foundation, N.Y. Transactions of the Fifth Conference, January 5-6, 1953, ed. by E. C. Reifenstein, Jr. pp. 130-46. The renal clearance of calcium in normal dogs, by W. F. Neuman and P. S. Chen, Jr.

BOOKS

Active Transport and Secretion (Symposia of the Society for Experimental Biology), Cambridge, Eng., Cambridge University Press, 1954. No. VIII, pp. 165-201. Enzyme systems of the cell surface involved in the uptake of sugars by yeast, by A. Rothstein.

Protoplasma-Tologia, Handbuch der Protoplasmaforschung, ed. by L. V. Heilbrunn and F. Weber, Vienna, Austria, Springer-Verlag, 1954. pp. 1-86. The enzymology of the cell surface, by A. Rothstein.

American Physiology Society Monograph, ed. by A. Shane, Baltimore, Md., Waverly Press, Inc., 1955. pp. 65-100. Relationship of the cell surface to electrolyte metabolism in yeast, by A. Rothstein.

Nuclear Radiation in Food and Agriculture, ed. by W. Ralph Singleton, Princeton, N.J., D. Van Nostrand Co., Inc., 1955. Chapter 17, pp. 240-48. Effects of daily low doses of x-rays on spermatogenesis in dogs, by G. W. Casarett and J. B. Hursh.

Encyclopedia of Instrumentation for Industrial Hygiene, Ann Arbor, Mich., Univ. of Michigan, 1956.

(pp.202-3) Filter holder for aerosol sampling, by K. E. Lauterbach, R. H. Wilson, L. J. Leach and C. J. Spiegl.

(pp.203-7) Oscillating thermal precipitator, by K. E. Lauterbach, R. H. Wilson, L. J. Leach and C. J. Spiegl.

Handbook of Biological Data, ed. by W. S. Spector, Philadelphia, Pa., W. B. Saunders Co., 1956. Prepared under the direction of the Com. on the Handbook of Biol. Data, Div. of Biol. and Agri., NAS-NRC. Contributor and reviewer, P. E. Morrow.

Pathologic Effects of Atomic Radiations, Washington, D. C., National Academy of Sciences-National Research Council, Publication 452, 1956.

Appendix III. Acute and chronic effects of radioactive particles on the respiratory tract, by James K. Scott and J. N. Stannard.

Appendix IV. Permanent and delayed biological effects of ionizing radiations from external sources, by H. A. Blair, G. W. Casarett, L. H. Hempelmann, J. B. Hursh, M. Ingram, T. R. Noonan, J. K. Scott and L. W. Tuttle.

BOOKS

Proceedings of the Symposium on High Temperature--a Tool for the Future, Calif., Univ. of California, 1956. pp. 10-15. The carbon arc image furnace, by T. P. Davis.

Some Aspects of Amino Acid Supplementation, ed. by William H. Cole, New Brunswick, N.J., Rutgers Univ. Press, 1956. Chapter 4, pp. 44-59. Amino acid metabolism studies with the isolated perfused rat liver, by L. L. Miller, W. T. Burke and D. E. Haft. (UR-432)*.

Surgical Forum, American College of Surgeons, Philadelphia, Pa., W. B. Saunders Co., 1956. Vol. VII, pp. 129-32. Development of histological techniques for the differential staining of burned and normal tissue, by J. R. Hinshaw and H. E. Pearse.

Ion Exchangers in Organic and Biochemistry, ed. by Calmon and Kressman, N.Y., Interscience Publishers, Inc., 1957. Part III. Specific Applications.

Chapter 10. Bone as an ion exchange system, by William F. Neuman. (pp.127-212)

Chapter 11. Ion exchange properties of cells and tissues, by (pp.213-34) Aser Rothstein.

Proceedings of the 6th Congress of the International Society of Hematology, N.Y., Grune and Stratton Co., 1957.

Abstract. Some contributions of leukocyte balance studies to (p. 161) leukocytapheresis, by M. Ingram. (See also UR-467)

Abstract. Studies on exchange of P^{32} -orthophosphate by red (p. 473) blood cells from patients with hereditary spherocytosis, by H. Tabechian and K. I. Altman.

Radiobiology at the Intra-Cellular Level, (Proc. of U.C.L.A. Conf., Sept. 1957; S. R. Glasser, Co-Chairman), ed. by T. G. Hennessy, et al., N.Y., Pergamon Press, 1959. Chapter 5, pp. 115-51. Interactions between cells and tissues following radiation, by George W. Casarett. (See also UR-521)

Surgical Forum, American College of Surgeons, Philadelphia, Pa., W. B. Saunders Co., 1957. Vol. VIII, pp. 582-85. Experimental studies on the healing of radiant energy thermal burns, by J. R. Hinshaw and F. W. Payne.

*Publication Only.

BOOKS

The Chemical Dynamics of Bone Mineral, by William F. Neuman and Margaret W. Neuman, Chicago, Ill., Univ. of Chicago Press, 1958.

Handbook of Respiration, analysis and compilation by Philip L. Altman and others, ed. by Dorothy S. Dittmer and Rudolph M. Grebe, Philadelphia, Pa., W. B. Saunders Co., 1958. Prepared under the direction of the Com. on the Handbook of Biol. Data, Div. of Biol. and Agri., NAS-NRC.

WADC-TR-58-352, ASTIA Doc. No. AD-155823

(pp.253-59) Sol M. Michaelson, M. Ingram, F. C. Chu,
A. S. Glicksman and J. N. Stannard.

(pp.259-62) J. N. Stannard, S. Michaelson and M. Ingram.

(pp. 30-33, P. E. Morrow
36-38,
43,132,
138)

Instruction and Method Manual Calvanek-Morrison Fluorometer Mark V, Newtonville, Mass., Jarrell-Ash Co., 1958. pp. 22-23. Purification of morin, by T. Y. Toribara.

Shorter-Term Biological Hazards of a Fallout Field, ed. by Gordon M. Dunning and John A. Hicken, Symposium, Washington, D. C., Dec. 12-14, 1956. Sponsored by the Atomic Energy Commission and the Dept. of Defense, Washington, U. S. Govt. Print. Off., 1958.

(pp.113-18) Recovery from latent radiation injury in relation to permissible human exposure, by H. A. Blair.

(pp.189-95) Retention of sub-micron aerosols in the human respiratory tract, by J. N. Stannard and P. E. Morrow.

Standard Methods of Clinical Chemistry, ed. by David Seligson, N.Y., Academic Press, Inc., 1958. Vol. 2, pp. 165-85. Sodium and potassium by flame photometry, by Pauline M. Halá and W. Burkett Mason.

Symposium on Information Theory in Biology, ed. by Hubert P. Yockey, N.Y., Pergamon Press, 1958. pp. 331-40. A quantitative description of latent injury from ionizing radiation, by H. A. Blair.

BOOKS

The Treatment of Cancer and Allied Diseases, ed. by George T. Pack and Irving M. Ariel, N.Y., Paul B. Hoeber, Inc., 2nd ed., 1958. Vol. 1, Chapter 15, pp. 269-78. The biological effects of ionizing radiation, by Charles L. Dunham and L. W. Tuttle.

Fluorine and Dental Health. The Pharmacology and Toxicology of Fluorine, ed. by Joseph C. Muhler and Maynard K. Hine, Bloomington, Ind., Indiana Univ. Press, 1959. Chapter 1, pp. 11-37. Fluoride toxicity, by F. A. Smith and H. C. Hodge.

Handbook of Circulation, analysis and compilation by Philip L. Altman, ed. by Dorothy S. Dittmer and Rudolph M. Grebe, Philadelphia, Pa., W. B. Saunders Co., 1959. Prepared under the direction of the Com. on the Handbook of Biol. Data, Div. of Biol. and Agri., NAS-NRC.

WADC-TR-59-593

(pp.196-206) Sol M. Michaelson.

(pp.207-27) Marylou Ingram.

Proceedings of the 7th World Congress of Hematology, Rome, Italy, 11 Pensiero, 1958. Sequestration leukopenia in leukocytapheresis, by M. Ingram. In press.

Progress in Nuclear Energy Series, London, Pergamon Press, 1959.

Biological Sciences, ed. by J. G. Bugher, J. Coursaget and J. F. Loutit. Series VI, Vol. 2, pp. 394-403. Observations on recovery and irreversible radiation injury in mammals, by John B. Hursh, George W. Casarett, Arland L. Carsten, Thomas R. Noonan, Sol M. Michaelson, Joe W. Howland and Henry A. Blair.

Health Physics, ed. by W. G. Marley and K. Z. Morgan. Series XII, Vol. 1, pp. 52-59. The questions of health hazards from the inhalation of insoluble uranium and thorium oxides, by Harold C. Hodge and Robert G. Thomas.

Medical Sciences, ed. by J. Bugher, J. Coursaget and J. F. Loutit, Series VII, Vol. 2, pp. 70-82 and Health Physics, ed. by W. G. Marley and K. Z. Morgan, Series XII, Vol. 1, pp. 40-51. An evaluation of inhalation hazards in the nuclear energy industry, by J. N. Stannard.

BOOKS

Recent Progress in Hormone Research, ed. by Gregory Pincus, N.Y., Academic Press, Inc., 1959. Vol. XV, pp. 427-54. Studies on the mechanism of action of the parathyroid hormone, by H. E. Firschein, W. F. Neuman, G. R. Martin and E. J. Mulryal.

Control of Radon and Daughters in Uranium Mines and Calculations on Biologic Effects, by Duncan A. Holaday, David E. Rushing, Richard D. Coleman, Paul F. Woolrich, Howard L. Kusnetz, William F. Bale, Washington, D. C., U. S. Department of Health, Education, and Welfare-Public Health Service, Publication 494.

Bone as a Tissue, Philadelphia, Pa., Blakiston. Chemical dynamics of bone mineral, by William F. Neuman. In press.

Influence of Protein Nutrition on Endocrine Response, (Proc. of 15th Annual Conf. on Protein Metabolism), New Brunswick, N.J., Rutgers Univ. Press, 1960. Influence of dietary protein on reproduction, by J. H. Leatham and S. R. Glasser. In press.

Surgical Forum, American College of Surgeons, Philadelphia, Pa., W. B. Saunders Co. Chapter--The metabolism of estrogens by human breast tumor tissue, by G. R. McGovern, F. M. Ganis and M. Radakovich. In press.

The Parathyroids, ed. by R. V. Talmage and R. O. Greep, Springfield, Ill., Charles C. Thomas. Possible fundamental action of parathyroid hormone in bone, by W. F. Neuman and C. M. Dowse. In press.

Radioisotopes in Scientific Research, (Proc. 1st UNESCO Int. Conf., Paris, 1957), N.Y., Pergamon Press, 1958. Vol. IV, pp. 1-10. The transport of bivalent cations into the yeast cell in relation to potassium and phosphate uptake, by Aser Rothstein. (See also UR-502)

Statistics and Mathematics in Biology, ed. by Oscar Kempthorne, Theodore A. Bancroft, John W. Gowen, and Jay L. Lush, Ames, Iowa, Iowa State College Press, 1954. Chapter 5, pp. 81-91. Application of some multivariate analysis techniques to data from radiation experiments, by A. M. Dutton. (See also UR-222, p. 50)

NATIONAL NUCLEAR ENERGY SERIES DIVISION VI, VOLUME 1*PHARMACOLOGY AND TOXICOLOGY OF URANIUM COMPOUNDS

Carl Voegtlin and Harold C. Hodge, Eds.

Part I. The pharmacology and toxicology of uranium compounds.

- Chapter 1. The chemistry of uranium compounds. A. L. Dounce and J. F. Flagg. (MDDC-422)
- Chapter 2. Analytical methods for determining uranium and fluorine. J. F. Flagg. (MDDC-321)
- Chapter 3. Statistical methods. D. V. Tiedeman, L. S. Kegan and M. J. Wantman. (MDDC-332)
- Chapter 4. Pathological anatomy following uranium poisoning. T. B. Barnett and R. G. Metcalf. (MDDC-249)
- Chapter 5. Characteristics of uranium poisoning. J. H. Wills. (MDDC-271)
- Chapter 6. Toxicity following parenteral administration of certain soluble uranium salts. F. Haven and H. C. Hodge. (MDDC-258)
- Chapter 7. Studies of toxicity of various uranium compounds when fed to experimental animals. E. A. Maynard and H. C. Hodge. (MDDC-263)
- Chapter 8. The toxicology of compounds of uranium following applications to the skin. J. A. Orcutt. (MDDC-266)
- Chapter 9. The toxicology of uranium compounds following application to the eye. J. A. Orcutt. (MDDC-265)
- Chapter 10. Toxicity following inhalation. H. E. Stokinger, A. Rothstein, E. Roberts, C. J. Spiegl, H. P. Dygert, C. W. LaBelie, and G. P. Sprague, Jr. (MDDC-376)

* Part I, II. N.Y., McGraw-Hill, 1949
Part III, IV. N.Y., McGraw-Hill, 1953

NATIONAL NUCLEAR ENERGY SERIES DIVISION VI, VOLUME 1PHARMACOLOGY AND TOXICOLOGY OF URANIUM COMPOUNDS

Carl Voegtlin and Harold C. Hodge, Eds.

- Chapter 11. The distribution and excretion of uranium. W. F. Neuman.
(MDDC-264)
- Chapter 12. Tolerance to uranium compounds. F. Haven. (MDDC-257)
- Chapter 13. The action of uranium on enzymes and proteins.
A. L. Dounce and T. H. Lan. (MDDC-423)
- Chapter 14. Catalasuria as a sensitive test for uranium poisoning.
A. L. Dounce, E. Roberts and J. H. Wills. (MDDC-252)
- Chapter 15. The mechanism of action of uranium compounds in the
animal body. A. L. Dounce. (MDDC-253)
- Chapter 16. Studies on human exposure to uranium compounds.
J. W. Howland. (MDDC-260)

Part II. The pharmacology and toxicology of fluorine and hydrogen
fluoride.

- Chapter 17. Toxicity following inhalation of fluorine and hydrogen
fluoride. H. E. Stokinger. (MDDC-330)

Part III. Chronic studies.

- Chapter 18. Chemistry. W. F. Neuman and G. H. Tishkoff.
- Chapter 19. Biochemical methods. N. Glover, F. A. Smith, W. Mann
and L. T. Steadman.
- Chapter 20. Oral toxicity of uranium compounds. E. A. Maynard,
W. L. Downs, and H. C. Hodge.
- Chapter 21. Toxicity following inhalation for one and two years.
H. E. Stokinger, R. C. Baxter, H. P. Dygert,
C. W. LaBelle, S. Laskin, U. C. Pozzani, E. Roberts,
J. J. Rothermel, A. Rothstein, C. J. Spiegl,
G. F. Sprague III, H. B. Wilson and R. G. Yaeger.

NATIONAL NUCLEAR ENERGY SERIES DIVISION VI, VOLUME 1PHARMACOLOGY AND TOXICOLOGY OF URANIUM COMPOUNDS

Carl Voegtlin and Harold C. Hodge, Eds.

Chapter 22. Insufflation studies in rabbits with dusts of uranium compounds. H. E. Thompson and L. T. Steadman. (M-1984R)

Part IV. Mechanism and metabolic studies.

Chapter 23. Metabolic studies. H. L. Berke, A. Rothstein, C. W. Bishop, E. Roberts and W. Mann.

Chapter 24. Deposition of uranium in bone. W. F. Neuman.

Chapter 25. Studies in cell metabolism. A. Rothstein.

Chapter 26. Maximum allowable concentration of uranium dust in air. H. C. Hodge, H. E. Stokinger, W. F. Neuman, W. F. Bale and A. E. Brandt.

Chapter 27. Biological effects of uranium: Literature review. A. G. Dinse and L. J. LaFrance.

Chapter 28. Special materials. H. E. Stokinger and C. J. Spiegl.

Chapter 29. Résumé of chapters 18 to 28. H. C. Hodge.

NATIONAL NUCLEAR ENERGY SERIES DIVISION VI, VOLUME 2*

STUDIES OF THE BIOLOGICAL EFFECTS OF RADIATION

Henry A. Blair, Editor

Section A. Observations on animals exposed to single doses of whole body x-radiation.

- Chapter 1. Observations on animals exposed to single doses of whole body x-radiation. R. D. Boche and F. W. Bishop. (MDDC-250)
- Chapter 2. The pathological changes exhibited by animals exposed to single doses of x-radiation. R. G. Metcalf, R. J. Blandau and T. B. Barnett. (UR-123)
- Chapter 3. The effects of acute exposure to roentgen radiation on the peripheral blood of experimental animals. M. Ingram and W. B. Mason. (UR-122)
- Chapter 4. Experiments on radiated animals in relation to shock. K. Fink. (MDDC-212)
- Chapter 5. Cross circulation experiments. J. S. Lawrence, W. N. Valentine, and A. H. Dowdy. (MDDC-217, MDDC-326)
- Chapter 6. Fingerprint changes in monkeys following x-radiation. R. A. Harvey. (MDDC-215)
- Chapter 7. Relation of mutation frequency to dosage in Drosophila. W. P. Spencer and C. Stern. (MDDC-765)
- Chapter 8. Comparison of x-radiation and beta radiation effects in rabbits. F. W. Bishop. (MDDC-203)

Section B. Chronic x-radiation

- Chapter 9. Observations on animals exposed to whole body x-radiation in divided doses over long periods. Introduction and techniques. A. H. Dowdy, R. E. Boche and F. W. Bishop. (MDDC-254)
- Chapter 10. Clinical observations, effects on growth and survival. R. D. Boche. (MDDC-204)

* N.Y., McGraw-Hill, 1954.

NATIONAL NUCLEAR ENERGY SERIES DIVISION VI, VOLUME 2STUDIES OF THE BIOLOGICAL EFFECTS OF RADIATION

Henry A. Blair, Editor

- Chapter 11. The effects of chronic exposure to roentgen radiation on the peripheral blood of experimental animals. M. Ingram and W. E. Mason. (UR-121)
- Chapter 12. Pathology in animals subjected to repeated daily exposure to roentgen rays. R. G. Metcalf, F. A. Inda, T. B. Barnett and G. W. Casarett. (UR-38)
- Chapter 13. Alterations in the clinical blood chemistry associated with chronic exposure of dogs to x-radiation. K. Fink. (MDDC-211)
- Chapter 14. Analysis of fingerprint changes in persons exposed to radiation. R. A. Harvey. (MDDC-216)
- Chapter 15. The influence of chronic irradiation with gamma rays at low dosages on the mutation rate in Drosophila melanogaster. E. Caspari and C. Stern. (M-1966, MDDC-1200)
- Section C. Observations on animals exposed to fractionated doses of fast neutrons.
- Chapter 16. Fast neutron irradiation procedure. E. McDonald.
- Chapter 17. Clinical, pathological, and nematological effects of chronic neutron irradiation. J. O. Ely, M. H. Ross, R. G. Metcalf, F. A. Inda, T. B. Barnett and G. W. Casarett. (UR-92)

NATIONAL NUCLEAR ENERGY SERIES DIVISION VI, VOLUME 3*
BIOLOGICAL STUDIES WITH POLONIUM, RADIUM AND PLUTONIUM

Robert M. Fink, ed.

Part I. Distribution and excretion of polonium. (AECD-2591)

- Chapter 1. General methods used in polonium distribution and excretion experiments. A. T. Gorham, R. M. Fink, C. P. Kimball, W. L. Minto, H. E. Silberstein, E. K. Vittum, W. F. Bale, T. Enns, and E. L. Alling.
- Chapter 2. Polonium distribution and excretion experiments with animals. H. E. Silberstein, W. L. Minto, R. M. Fink, G. A. Boyd, R. G. Metcalf, W. Mann, C. P. Kimball, and A. T. Gorham.
- Chapter 3. Studies of polonium metabolism in human subjects. H. E. Silberstein, W. N. Valentine, W. L. Minto, J. S. Lawrence, R. M. Fink, and A. T. Gorham.

Part II. Distribution and excretion of radium. (AECD-2592)

- Chapter 4. Historical background. H. E. Silberstein.
- Chapter 5. General methods used in radium distribution and excretion experiments. H. E. Silberstein.
- Chapter 6. Radium distribution and excretion studies with rats. H. E. Silberstein.

Part III. Toxicity of polonium, plutonium, and radium in rats.

- Chapter 7. Pilot studies on the intravenous lethal dosage of polonium, plutonium, and radium in rats. G. A. Boyd, H. E. Silberstein, R. M. Fink, A. Frenkel, W. L. Minto, R. G. Metcalf, G. Casarett, and G. M. Suter. (AECD-2593)
- Chapter 8. Simultaneous studies on the intravenous lethal dosage of polonium, plutonium, and radium in rats. G. A. Boyd, A. Williams, W. L. Minto, L. V. Tiedeman, R. M. Fink, G. Casarett, and R. C. Metcalf. (AECD-2605)

* N.Y., McGraw-Hill, 1950.

THESES SUBMITTED BY GRADUATE STUDENTS

Box, C.J.	The effect of uranium nitrate on the cholesterol metabolism of the normal rat.	1945
Bishop, C.	Some aspects of carbohydrate metabolism in normal animals and in animals poisoned with uranyl nitrate, uranium tetrachloride, hydrogen fluoride, and alloxan.	1946
Carlson, A.B.	The removal of uranium compounds from cloth; a laundry problem.	1946
O'Leary, J.F.	The urinary excretion of phenol in uranium-poisoned rats.	1946
Orcutt, J.A.	The toxicology of various compounds of uranium following application to the skin and to the eye.	1946
Randall, C.	Citric acid of bones and urine of uranium-poisoned rats.	1946
Thomas, R.G.	Chromosome aberrations in lymph nodes of rats exposed to x-radiation.	1947
Bonner, J.F., Jr.	Alpha and beta ray counters. (MDDC-967)	1948
Berke, H.L.	The ratio of urinary amino acid nitrogen to creatinine as sensitive test for uranium poisoning in the rabbit. (<u>Science</u> <u>108</u> : 524-31, 1948) (AECD-2276)	1948
Dale, P.P.	Experimental dental caries.	1948
Glover, N.	The isolation of microquantities of uranium by precipitation with protein prior to fluorometric determination.	1948
Danley, R.A.	Physico-chemical studies of the beryllium-citrate complex. (Part I, UR-59; Part III, UR-105).	1950
Gabrio, B.W.	Studies on ferritin. (AECU-831)	1950
Hurwitz, L.	A kinetic study of normal and uranium inhibited hexose metabolism in yeast.	1950
LaBelle, C.W.	The relation of particle size to toxicity.	1950
Underwood, E.E.	Calcium exchange as the mechanism for the uptake of radioactive calcium by bone.	1950

THESES SUBMITTED BY GRADUATE STUDENTS

Williams, L.B.	Transmethylation: Toxicity studies of some methyl acceptors.	1950
Barr, I.A.	Dietary protein, methionine, and forced feeding in the irradiated rat. (Work performed at the National Institutes of Health, Bethesda, Maryland).	1951
Cool, W.S.	The effect of x-rays on polycythemic rats. (Work performed at National Institutes of Health, Bethesda, Maryland).	1951
Kanwisher, J.W.	A chemical dosimeter for ionizing radiations. (UR-167)	1951
Kosel, G.E.	Studies on the chemistry of beryllium. (UR-106)	1951
Megirian, D.	The deposition of fluoride in glycol-ashed bone. (UR-168)	1951
Morrow, P.E.	A new pneumotachograph and its application to a study of human and canine respiration. (UR-182)	1951
O'Leary, J.J.	The paralyzing and anticonvulsant effects of compounds acting in the central nervous system.	1951
Richmond, J.E.	Studies concerning the effects of radiation on the biosynthesis of hemoglobin.	1951
Shaver, S.L.	X-irradiation injury and repair in the germinal epithelium of male rats. I. Injury and repair in adult rats. (UR-218) II. Injury and repair in immature rats. (UR-219)	1951
Simon, G.A.	A spectrographic analysis of a fission product (columbium).	1951
Tishkoff, G.H.	Physico-chemical mechanisms of uranium transport in the body.	1951
Underwood, A.L.	Contributions to the analytical chemistry of beryllium. Studies on the renal excretion of beryllium. (Part I, UR-74, 109; Part II, UR-171)	1951
Vyverberg, R.G.	A quenching circuit for Geiger-Mueller counting of carbon 14 as carbon dioxide. (UR-160)	1951
Zizzo, S.G.	A cadmium sulfide crystal counter for <u>in vivo</u> detection of radioactivity.	1951

THESES SUBMITTED BY GRADUATE STUDENTS

Angleton, G.M.	A spectrographic determination of cerium in biological material.	1952
Casarett, G.W.	Histopathology of alpha radiation from internally administered polonium. (UR-201)	1952
DellaRosa, R.J.	Some aspects of the biosynthesis of chlorophyll.	1952
Dresel, P.E.	Observations on some compounds acting on the central and autonomic nervous systems.	1952
Frankel, D.R.	The relation of protein synthesis to nucleic acid phosphorus turnover in the rat liver. (UR-216)	1952
Gallimore, J.C., Jr.	An autoradiographic and radiochemical study of the distribution of polonium in rats after intravenous administration. (UR-220) (Work performed at the University of Rochester and the Medical Division of the Oak Ridge Institute of Nuclear Studies)	1952
Hammond, W.E.	A spectrochemical method for the determination of naturally occurring trace amounts of beryllium in biological and other material.	1952
Rosenzweig, W.	A dosimetric study of high intensity gamma ray sources. (Work performed at Brookhaven National Laboratory)	1952
Sanders, A.P.	A radiation monitor for measuring A^{41} beta radiation dosage at Brookhaven National Laboratory. (Work performed at Brookhaven National Laboratory)	1952
Spraragen, S.C.	The effect of roentgen irradiation on intestinal absorption.	1952
Tidball, C.S.	The toxicology of a phosphate polymer and its use as a uranium antidote. (UR-204)	1952
Toporek, M.	L-histidine-2- C^{14} , its synthesis and some aspects of its metabolism in rats. (UR-203)	1952
Watson, M.L.	Spermatogenesis in the adult albino rat as revealed by tissue sections in the electron microscope. (UR-185) (<u>Bichim. et. Biophys. Acta</u> 8: 369-74, 1952)	1952
Barker, R.F.	Development of a neutron dosimeter for use in monitoring procedures.	1953

THESES SUBMITTED BY GRADUATE STUDENTS

Boyd, E.S.	Studies on cartilage.	1953
Dahl, A.H.	Measurement of x-ray beam quality by the use of metal wall to "air" - wall chamber ratios. (UR-250)	1953
Demis, D.J.	A study of the effects of insulin and of mercury on the utilization of monosaccharides by excised rat diaphragm.	1953
DiStefano, V.F.	Selected studies on the role of bone phosphatase in calcification.	1953
Downs, W.L.	The effects of parathyroid extract on the bone lesion induced by beryllium compounds.	1953
Hein, J.W.	Experimental studies of oral health; evaluation of certain water-soluble chlorophyll derivatives.	1953
Hurwitz, L.	A comparative study of the inhibitory actions of mercury and uranium on yeast and yeast hexokinase. (UR-252)	1953
Jespersen, H.W., Jr.	The probability theory of Geiger-Muller counters. (UR-234)	1953
Levinskas, G.J.	Solubility studies of synthetic hydroxylapatite (the lattice of bone mineral).	1953
Megirian, R.	The metabolic fate of synthetic metaphosphates and their influence on uranium excretion.	1953
Millar, F.K.	Investigations upon the growth, salt accumulation and related metabolic problems of plant tissue by the use of radioactive isotopes.	1953
Provoost, A.T.	Histopathological effects of x-irradiation of the transplanted adrenal cortex on shielded lymphatic organs in rats.	1953
Rausa, G.J.	A comparison of the photographic effects produced by cadmium and rhodium after neutron bombardment with reference to personnel monitoring.	1953
Rouser, G.L.	Studies on the biochemistry of white blood cells.	1953
Schlesinger, M.J., Jr.	The effect of a protein free diet on recovery from x-irradiation injury in the rat.	1953

THESES SUBMITTED BY GRADUATE STUDENTS

Shandley, P.D.	The radium content of common foods.	1953
Smith, D.S.	The application of infrared spectrophotometry to the detection of possible proteoses and peptones in the blood of irradiated animals. (UR-251)	1953
Smith, P.H.	Studies on gastrointestinal motility and absorption of glucose after x-irradiation.	1953
Sultzer, M.R.	The elimination of polonium 210 by humans with elevated body contents of lead 210 as a result of extensive exposure to high radon and radon daughter levels. (UR-266)	1953
Whipple, G.Hoyt, Jr.	Luminous bacteria as a radiobiological test organism, with special reference to the radiations from a 130-inch frequency modulated cyclotron. (UR-249)	1953
Woodsum, H.C.	The use of ionization chambers for health physics survey of the BNL 3 BEV proton-synchrotron. (Work done at Brookhaven National Laboratory)	1953
Bair, W.J.	The effects of x-radiation on the metabolism of Bakers' yeast. (UR-321)	1954
Bruce, A.K.	Organic synthesis of carbon-14 labeled hematoporphyrin dimethyl ester.	1954
Chen, P.S., Jr.	Studies on the renal excretion of calcium.	1954
Dagirmanjian, R.	The effects of calcium versenate on uranium poisoning.	1954
Davis, K.H.	Hematology studies in normal and fasting mice.	1954
Gordon, E.R.	Changes induced by irradiation in organ weight, and liver chemistry in adrenalectomized and intact rats.	1954
Greenburg, L.J.	The effects of 2,2-Diethyl 1,3-Propanediol and 2,2-Diethyl 1,4-Butanediol on the succinoxidase system.	1954
Hilcken, J.A.	Tyndallometric estimation of polydisperse aerosol deposition in man. (UR-300)	1954

THESES SUBMITTED BY GRADUATE STUDENTS

Megirian, D.	A neuropharmacological study of beta-erythroidine and its derivatives.	1954
Milani, R.E.	Some aspects of calcium metabolism in x-irradiated rabbits.	1954
Morken, D.A.	The acute toxicity of radon.	1954
Putnam, T.E.	The urinary excretion of radium.	1954
Richmond, J.E.	Studies on the biosynthesis of hemin.	1954
Roberts, C.J.	Some effects of aging, x-radiation, and radium poisoning on the rat aorta.	1954
Shapiro, J.	An evaluation of the pulmonary radiation dosage from radon and its daughter products. (UR-298)	1954
Weikel, J.H., Jr.	Investigations into the dynamics of skeletal metabolism.	1954
White, N.G.	Studies of the deposition of air-borne submicron UO_2F_2 dust in the respiratory tract of rabbits during normal respiration.	1954
Adams, S.	Comparative observations on the action of 2,2-Diethyl-1, 3-Propanediol, an anticonvulsant, and its convulsant homologue on the spinal cord and isolated peripheral systems.	1955
Berke, H.L.	Assimilation and dissimilation of carbohydrates by Baker's Yeast.	1955
Brent, R.L.	The effect of x-irradiation on rat embryos at the twelfth day of gestation.	1955
Casarett, L.J.	Autoradiographic studies on polonium.	1955
Cleveland, R.S.	An investigation of the effect of x-irradiated lusteroid on luminous bacteria.	1955
Lewis, L.	The biological equivalence of thermal neutrons to x-radiation in rats as determined by the time to recover weight loss after irradiation. (Work done at Brookhaven.)	1955

THESES SUBMITTED BY GRADUATE STUDENTS

O'Brien, J.F.	The use of threshold detectors for neutron measurement at the BNL cosmotron. (Work done at Brookhaven.)	1955
Sikov, M.R.	Studies on the effects of irradiation with maternally administered P-32 on the prenatal and postnatal development of the rat.	1955
Thomas, R.G.	Studies on polonium in the blood.	1955
Bickmore, J.T.	Factors influencing the rate and course of chemical reactions induced in aqueous solutions by x-rays: Studies on methylene blue.	1956
Black, S.C.	Low level polonium determinations of tissue and urine. (UR-463)	1956
Bruce, A.K.	The effects of ionizing radiation upon potassium exchange in yeast.	1956
Carsten, A.L.	Determination of the recovery from lethal effects of lower body irradiation in rats. (UR-455)	1956
Ganis, F.M.G.	Some observations on the IN VITRO metabolism of hormones. Part I. The effect of adrenocorticotrophic hormone (ACTH) on protein synthesis in the isolated perfused beef adrenal gland. Part II. The intermediary metabolism of steroids by kidney tissue.	1956
Henderson, B.J.	The effect of a highly irradiated food medium on life span and development of <u>Drosophila melanogaster</u> . (UR-483)	1956
Lovaas, A.	The effect of alpha-irradiation on luminescence of <u>Achromobacter fischeri</u> .	1956
Mercer, T.T.	A study of some physical properties of an aerosol in relation to airborne decay products of radon. (UR-474)	1956
Scharff, T.G.	The hexokinases of yeast.	1956
Stoll, W.R.	The nature of sodium in bone.	1956
Strates, B.	Selected studies on the mechanism of calcification.	1956

THESES SUBMITTED BY GRADUATE STUDENTS

Taylor, J.M.	Studies on plasma levels and urinary excretion of aurin tricarboxylic acid in the rabbit.	1956
Wiberg, J.S.	The influence of cations on the enzymatic hydrolysis of nucleic acids.	1956
Blake, R.L.	A study of glucose uptake by rat diaphragm in vitro.	1957
Casarett, A.P.	Histological investigations of mechanisms of x-ray effects on spermatogenesis in the rat. (UR-496 and UR-497)	1957
Carsten, A.L.	Investigation of the lethal mechanisms associated with upper body x-irradiation in the rat, with special emphasis on the rate of recovery.	1957
Gabourel, J.D.	Detoxication of atropine in mice and rats.	1957
Goldman, M.	Factors influencing lymphocyte release from the isolated perfused spleen.	1957
Green, M.	Studies on chlorophylls.	1957
Haft, D.E.	Metabolic studies on the isolated perfused rat liver.	1957
Krieg, D.R.	A study of gene action in ultraviolet-irradiated bacteriophage. (<u>Virology</u> 8: 80-98, 1959) (UR-482)	1957
Little, K.D.	The effects of D-lysergic acid diethylamide and serotonin on spinal reflexes.	1957
Myers, H.M.	The nature of the hydration shell of hydroxylapatite.	1957
Nussbaum, E.	Radon solubility in body tissues and in fatty acids. (UR-503)	1957
O'Brien, J.A.	Renal excretion of polonium in the rabbit.	1957
Rothe, W.E.	Irradiation of the gastrointestinal tract of the rat by insoluble beta emitters. (UR-529)	1957
Anderson, L.L.	Design studies directed toward a self-nulling balanced-character ion-current instrument. (UR-525)	1958

THESES SUBMITTED BY GRADUATE STUDENTS

Armstrong, R.D.	Sensitivity and inhalation studies on beryllium oxide fume.	1958
Casarett, L.J.	A study of the pharmacodynamics of polonium administered via the lung.	1958
Dewey, W.C.	Amount of plasma proteins and red blood cells and the vascular-extravascular exchange of plasma proteins in the rat as measured with I ¹³¹ and Cr ⁵¹ labels. (UR-524)	1958
Firschein, H.E.	The mechanism of action of the parathyroid hormone.	1958
Gordon, E.R.	A study of the causes of glycogen accumulation in the liver of an irradiated rat.	1958
Jordan, H.C.	Constant protein catabolism of Walker Carcinoma 256 and human skin epithelium in tissue culture. (<u>Cancer Research 19: 195-200, 1959</u>) (UR-531)	1958
Keary, F.V.	The effects of sodium pentobarbital after x-irradiation.	1958
Martin, G.R.	On the nature of osteoclasia.	1958
Schulman, M.	The effects of ionizing radiation on the incorporation of delta-aminolevulinic acid-2,3-C ¹⁴ into hemin.	1958
Boecker, B.B.	A study of the deposition and retention of plutonium dioxide in rats.	1959
Davis, T.P.	A theoretical and experimental investigation of the temperature response of pig skin exposed to thermal radiation. (UR-553)	1959
DellaRosa, R.J.	Studies on the renal excretion of strontium and calcium in the dog.	1959
Rowe, W.B.	Studies on the deoxyribonucleases in the rat.	1959
Stuart, B.O.	The effects of high oxygen tensions on potassium retentivity and survival of Baker's yeast.	1959
Taylor, J.M.	Toxic effects of fluoride on the rat kidney.	1959

THESES SUBMITTED BY GRADUATE STUDENTS

Angel, C.R.	Effect of whole body x-irradiation upon the excretion of taurine and other metabolites in four species of mammals.	1960
Dagirmanjian, R.	Some pharmacological and toxicological effects of three tetrahydrocannabinols.	1960
Hansen, C.L., Jr.	The biological effects of upper body x-irradiation of beagles.	1960
Harris, M.D., Jr.	A study of chemical protection against single and fractionated whole body x-irradiation in the rat.	1960
Potter, J.P.	Particulate studies of the BNL pile cooling air effluent. (Work performed at Brookhaven National Laboratory)	1960

INDEX OF AUTHORS

	<u>Page</u>		<u>Page</u>
Ackerman, H.	144, 184, 208	Angel, C.R.	100, 102, 241
Ackermann, I.B.	94, 108	Angeli, M.A.K.	176
Adams, M.	89, 120	Angleton, G.M.	234
Adams, S.	207, 216, 237	Archer, V.E.	185
Adams, W.S.	117, 118	Armstrong, R.D.	149, 150, 151 201, 240
Adler, D.L.	188	Armstrong, W.D.	162
Adolph, J.	53	Arroyave, G.	60
Alderman, I.M.	108	Ashenburg, N.J.	145, 146, 150, 194
Allen, R.P.	144, 145, 146, 184, 192, 193, 197, 198	Ashworth, B.J.	149, 199
Alling, E.L.	29, 147, 231	Avery, J.K.	68, 79
Alpert, S.	90	Axelrod, L.R.	18, 19, 20, 22, 26, 27, 57, 58, 60
Altland, P.D.	94	Baily, N.	136
Altman, K.I.	11, 13, 14, 15, 16, 17, 18, 20, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 35, 36, 37, 41, 42, 86, 87, 90, 93, 94, 95, 96, 97, 98, 99, 100, 120, 121, 122, 123, 124, 160, 174, 222	Bair, W.J.	44, 51, 87, 91, 95, 236
Anderson, J.R.	122	Bale, W.F.	13, 14, 15, 16, 18, 19, 24, 25, 26, 27, 28, 37, 38, 39, 40, 41, 42, 43, 67, 76, 88, 132, 133, 135, 136, 137, 164, 172, 180, 181, 183, 197, 206, 218, 225, 228, 231
Anderson, L.L.	135, 239	Bales, H.W.	23, 112, 113

INDEX OF AUTHORS

	<u>Page</u>		<u>Page</u>
Barker, R.F.	135, 234	Berke, H.L.	16, 26, 44,
Barner, H.	114	(See also	48, 49, 51
Barnes, S.W.	119, 125	Berkowitz, H.L.)	74, 163, 176,
Barnett, T.B.	84, 85, 226,		178, 196, 198,
	229, 230	Berkley, K.M.	200, 228, 232,
Barr, I.A.	233		237
Barrett, R.	126, 196	Berkowitz, H.L.	109, 110, 113,
Barron, E.S.G.	24		114
Bassett, S.H.	36, 37, 196	Berkowitz, H.L.	188, 189
Basso, J.A.	110, 113, 115	Berry, J.F.	60
Battaglia, J.A.	193	Beyer, G.T.	24
Baum, J.W.	135	Bibby, B.G.	160
Baxter, R.C.	58, 97, 100,	Bickmore, J.T.	211, 213, 216,
	164, 169, 174,		238
	175, 177, 178,	Birk, R.E.	26
	207, 217, 227,	Bishop, C.W.	153, 190, 195,
Behringer, A.J.	61		228, 232
Benjamin, J.A.	25, 213	Bishop, F.W.	78, 80, 81,
Bennett, L.R.	13, 83, 84,		82, 208, 210,
	85, 104	Black, B.	229
Bennett, R.	14, 82	Black, S.C.	165
Bennett, V.C.	14, 84	Blair, H.A.	176, 238
Benson, R.E.	107		6, 77, 88, 91,
Berg, G.G.	34		92, 99, 103,
Berghout, C.F.	152		174, 175, 177,
			206, 209, 212,
			217, 218, 221,
			223, 224, 229,
			230,
		Blake, R.L.	36, 239
		Blakney, R.M.	109, 115, 133

INDEX OF AUTHORS

	<u>Page</u>		<u>Page</u>
Blanchet, H.J., Jr.	26, 167	Brandt, A.E.	197, 228
Blandau, R.J.	85, 229	Brayer, F.T.	23, 40, 59, 90, 93, 94, 95, 99
Bleasdale, J.	153	Brent, R.L.	85, 87, 89, 91, 101, 205, 237
Bless, S.	169	Brodie, D.C.	190
Bloor, W.R.	52	Brothers, G.B.	145
Bly, C.G.	15, 16, 17, 19, 20, 25, 37	Brown, B.	145, 197
Board, F.A.	75	Brown, J.B.	23
Boche, R.D.	229	Bruce, A.K.	28, 35, 48, 49, 51, 96, 97, 98, 102, 121, 236, 238
Boecker, B.B.	171, 240	Bruce, M.	49, 50
Bonner, G.	144, 146, 184	Bruce, R.A.	144, 145, 146, 148
Bonner, J.F., Jr.	56, 57, 64, 68, 69, 132, 133, 137, 158, 160, 185, 218, 219, 232	Brudevold, F.	158, 159, 160, 161, 162, 211, 214
Booth, C.	126, 196	Bruns, F.H.	27, 33, 95
Box, C.J.	232	Bruton, W.	166
Boyd, E.S.	65, 66, 67, 70, 71, 235	Burke, W.T.	21, 22, 28, 29, 35, 38, 41, 222
Boyd, G.A.	11, 12, 75, 171, 172, 180, 208, 216, 231,	Cabot, C.	213
Boyd, J.	68, 181	Calkins, M.C.	165, 203
Boyle, F.P.	96	Cantarow, A.	24, 208
Bradford, W.L.	83		

INDEX OF AUTHORS

	<u>Page</u>		<u>Page</u>
Caplin, S.	20, 27	Chen, P.S., Jr.	21, 29, 34, 45, 57, 58, 61, 158, 213, 216, 220, 236
Carlson, A.B.	54, 59, 200, 204, 232	Chiquoine, A.D.	80
Carpenter, C.M.	80, 208	Christian, R.M.	123
Carr, M.	87, 173	Chu, F.C.	223
Carsten, A.L.	92, 96, 100, 102, 103, 224, 238, 239	Clark, R.K.	136
Casarett, A.P. (See also Provoost, A.T.)	23, 93, 96, 99, 239	Clark, R.T., Jr.	15
Casarett, G.W.	11, 14, 24, 37, 40, 76, 83, 64, 85, 89, 90, 91, 92, 93, 95, 96, 99, 100, 103, 168, 169, 173, 174, 176, 205, 206, 221, 222, 224, 230, 231, 234	Clarkson, T.W.	34, 49, 50, 51, 215
Casarett, L.J.	8, 9, 19, 28, 75, 165, 169, 171, 174, 175, 176, 177, 178, 179, 217, 237, 240	Claus, C.J.	19
Caspari, E.	82, 230	Cleveland, R.S.	216, 237
Cedars, N.	196	Cloutier, R.	165
Chaffee, E.	46	Cobler, J.G.	153, 189
Charles, D.R.	76, 94, 103, 217	Coco, S.	17, 57, 60, 61, 75
		Coelho, M.A.	8, 128
		Coghlan, E.R.	66
		Cohenour, L.B.	52, 54, 140
		Coleman, R.D.	225
		Colgan, J.	87, 88
		Collier, V.	83
		Colodzin, M.	185
		Conley, J.	168

INDEX OF AUTHORS

	<u>Page</u>		<u>Page</u>
Cool, W.S.	94, 233	Dale, P.P.	102, 153, 159, 186, 202, 215, 232
Coonan, L.	86, 89, 120	Danley, R.A.	56, 73, 74, 75, 149, 232
Cooper, B.J.	163	Dautrebande, L.	9
Cotton, W.K.	90, 106	Davis, K.E.	132
Cottone, M.A.	79	Davis, K.H.	125, 236
Coulter, M.P.	85, 86, 87, 88, 90, 104, 105, 106, 107, 108, 118	(See also Little, K.D.)	
Cox, G.J.	157, 159	Davis, R.W.	119, 123
Coye, R.D., Jr.	149, 165, 168	Davis, T.P.	109, 110, 111, 112, 113, 115, 116, 133, 134, 135, 136, 207, 222, 240
Craddock, C.G., Jr.	117, 118		
Crain, R.C.	41	Davis, W.	54
Craver, B.N.	102, 103	DeBottis, D.J.	107
Crociata, M.	86	DeLalla, V.	109
Crossland, R.S.	190	DeLaVergne, L.	14
Crump, S.L.	23, 205, 209, 210	DellaRosa, R.J.	15, 25, 26, 57, 58, 75, 170, 174, 175, 176, 177, 178, 214, 234, 240
Cucci, M.R.	143, 219		
Cucci, M.W.	55	Demis, C.	44, 45, 50
Cusson, K.Y.	36, 37, 196	Demis, D.J.	45, 46, 48, 51, 235
Dagirmanjian, R.	170, 201, 236, 241	Demis, V.	46
Dahl, A.H.	76, 133, 134, 235	DeMott, D.W.	115
Dailey, M.E.	142		

INDEX OF AUTHORS

	<u>Page</u>		<u>Page</u>
DeNardi, J.	142	Downs, W.L.	142, 143, 144, 145, 146, 149.
Dent, C.E.	62		150, 151, 155, 156, 157, 161.
Dessauer, G.	132		162, 163, 164, 165, 166, 167,
DeVoldre, J.J.	146, 150, 156, 157, 165		168, 169, 184, 197, 199, 200, 202, 203, 218, 227, 235
Dewey, P.A.	59, 70, 71		
Dewey, W.C.	39, 40, 122, 124, 240	Dowse, C.M.	225
Dinse, A.G.	228	Dresel, P.E.	216, 234
DiPasqua, A.C.	176, 178	Duffy, B.J., Jr.	86, 90, 94, 205, 209
DiStefano, V.F.	16, 29, 59, 65, 66, 67, 69, 70, 71, 120, 167, 212, 213, 235	Dunham, C.L.	224
		Dustan, C.	151
Dittman, D.	189	Dutton, A.M.	95, 100, 206, 210, 225
Doherty, D.G.	212	Dwight, E.	161
Dohl, J.M.	7, 127, 199	Dygert, H.P.	7, 139, 140, 141, 153, 189, 190, 191, 192, 226, 227
Dole, N.	119		
Doran, E.	163	Dygert, P.	139, 186
Dounce, A.L.	24, 52, 54, 73, 186, 200, 202, 226, 227,	Dziuba, S.P.	8, 73, 198, 199, 200
Dowdy, A.H.	6, 125, 180, 229	Eberl, J.J.	208
		Edwards, V.M.	190
		Eisenbud, M.	151, 152
		Eldredge, D.M.	137, 162

INDEX OF AUTHORS

	<u>Page</u>		<u>Page</u>
El-Tamami, M.Y.	35	Fenn, W.O.	15
Ely, J.O.	84, 230	Field, J.B.	104, 122
Emery, A.J., Jr.	23, 112, 116	Fink, K.	62, 229, 230
Emmel, V.M.	213	Fink, R.M.	62, 171, 172, 180, 231
Enns, T.	132, 231	Firschein, H.E.	22, 29, 31, 32, 72, 225, 240
Erickson, J.O.	146	Fisch, S.	65
Eriksen, N.	53, 154, 155	Flagg, J.F.	52, 53, 54, 73, 226
Ervin, D.M.	123	Fleisch, H.	71
Esler, F.L.	132, 133	Fleming, R.W.	59, 200
Estabrook, R.W.	27	Flick, J.J.	103
Evans, T.C.	103	Fosdick, L.S.	209
Failla, G.	136	Frank, P.B.	10, 126, 129, 167
Falconer, D.W.	126, 127	Frankel, D.R.	18, 234
Falkenheim, M.	64, 69	Frazell, E.L.	209
Falkenheim, R.	30	Freer, R.M.	24
Fancher, J.A.	206	Frenkel, A.W.	56, 195, 196, 201, 231
Fanta, P.E.	52	Frisch, M.	59
Farhi, L.E.	212	Fuller, M.E.	197
Fassett, D.W.	26	Furman, N.H.	75
Feldman, I.	17, 55, 56, 57, 58, 59, 67, 73, 74, 75, 149, 158, 160, 177, 208, 212, 215, 217		
Feltman, R.	159		

INDEX OF AUTHORS

	<u>Page</u>		<u>Page</u>
Furth, F.W.	85, 86, 87, 104, 105, 106, 107, 108, 119, 205	Glegg, R.E.	96
Gabourel, J.D.	212, 216, 239	Glicksman, A.S.	223
Gabrio, B.W.	15, 24, 166, 167, 232	Glover, N.	55, 59, 227 232
Gallimore, J.C., Jr.	12, 174, 234	Goldman, M.	91, 95, 116, 122, 124, 125, 164, 169, 239
Ganis, F.M.G.	22, 29, 30, 31, 34, 36, 225, 238	Goodland, R.L.	38, 39, 40, 41, 42, 43
Gardner, D.E.	55, 60, 66, 148, 151, 155, 156, 157, 158, 159, 160, 161, 162, 200, 210 211	Goodman, J.W.	46, 48, 49
Gates, A.A.	180, 182	Gordon, E.R.	36, 101, 236, 240
Gates, E.	84, 87, 88	Gordon, L.H.	34
Gehrmann, G.	29	Gorham, A.T.	231
Gerber, G.	99	Gosselin, R.E.	16, 21, 26, 66, 74, 146, 148, 163, 167, 199, 204, 207, 212
Gerber, G.B.	31, 99	Grace, J.L.	106
Gibb, F.R.	9, 165, 171, 177, 178, 214	Grachus, T.	84
Gilda, J.E.	7, 132	Gray, E. LeB.	169
Gitelman, H.J.	68	Green, M.	30, 31, 33, 35, 36, 42, 239
Glasser, S.R.	23, 26, 31, 32, 33, 34, 40, 90, 91, 93, 94, 95, 99, 100, 213, 222, 225	Greenberg, L.J.	21, 35, 236
		Grier, R.S.	142
		Grimaldi, A.J.	38, 87, 89
		Grobman, A.B.	103, 217

INDEX OF AUTHORS

	<u>Page</u>		<u>Page</u>
Gruschow, J.	13, 56, 196	Hayes, A.D.	8, 9, 27, 47, 49, 128, 166
Haberland, G.L.	27, 33, 95, 97, 98	Hein, J.W.	158, 159, 160, 210, 216, 235
Haft, D.E.	21, 22, 31, 36, 222, 239	Helmkamp, R.W.	39, 42
Hald, P.M.	223	Hempelmann, L.H.	92, 94, 95, 96, 97, 98, 99, 100, 221
Hall, R.H.	55, 56, 146, 147, 148, 150, 151, 167, 184	Henderson, B.J.	97, 168, 207, 238
Hammond, W.E.	62, 234	Herling, F.	22
Hansen, C.L., Jr.	100, 101, 102, 241	Heyer, L.	210
Hardy, H.L.	142	Hilcken, J.A.	8, 236
Haroutunian, L.M.	210	Hinsbaw, J.R.	112, 113, 114, 115, 116, 222
Harris, M.D., Jr.	108, 241	Hodge, H.C.	19, 24, 26, 28, 29, 53, 63, 64, 65, 66, 67, 68, 69, 70, 142, 143, 149, 150, 157, 158, 159, 160, 161, 162, 163, 164, 165, 167, 168, 178, 181, 184, 185, 186, 187, 189, 190, 197, 198, 199, 200, 201, 202, 205, 209, 210, 218, 219, 220, 224, 226, 227, 228
Harris, W.B.	151		
Harrison, W.	204		
Harvey, R.A.	82, 229, 230		
Hausmann, E.	34		
Haven, F.L.	164, 186, 187, 188, 190, 200, 202, 226, 227		
Havill, J.R.	17, 55, 56, 58, 74, 75, 149		
Hawkins, D.R.	167		
Haydon, H.	173, 176	Hogg, L., Jr.	109, 115, 205

INDEX OF AUTHORS

	<u>Page</u>		<u>Page</u>
Holaday, D.A.	225	Inda, F.A.	84, 230
Holler, J.W.	36	Ingram, M.	76, 85, 86, 87, 89, 92, 94, 96, 119, 120, 121, 122, 125, 206, 221, 222, 223, 224, 229, 230
Hooper, D.C.	49		
Horne, S.	33		
Horton, C.A.	52, 54, 153, 189, 190	Issac, S.	161
Howe, R.E.	153	Izzo, J.L.	23, 31, 32, 33, 34, 209
Howland, J.W.	32, 35, 40, 76, 83, 85, 86, 87, 92, 93, 96, 97, 98, 99, 100, 101, 103, 104, 105, 106, 107, 108, 119, 124, 143, 144, 146, 147, 204, 205, 209, 212, 213, 218, 219, 224, 227	Izzo, M.J.	41, 119, 124
		Jacobson, B.L.	78
		Jennings, D.H.	49, 50
		Jespersen, H.W., Jr.	137, 235
		Jespersen, J.	96, 120
		Johnson, K.	27
Hunter, H.B.	208, 215	Johnstone, D.E.	32, 97, 99, 213
Hursh, J.B.	13, 62, 76, 83, 84, 86, 91, 92, 93, 94, 95, 96, 103, 134, 137, 173, 179, 180, 181, 182, 183, 185, 200, 202, 208, 219, 221, 224	Jones, E.B.	6
		Jordan, H.C.	39, 42, 85, 87, 89, 240
		Kanwisher, J.W.	133, 134, 233
		Karr, J.W.	87, 102, 208, 219
Hurwitz, L.	45, 46, 47, 48, 120, 144, 167, 193, 232, 235	Katz, R.	159
		Keary, F.V.	102, 240
Hutchinson, E.D.	150, 185	Kegan, L.S.	225

INDEX OF AUTHORS

	<u>Page</u>		<u>Page</u>
Kertesz, Z.I.	96, 97	LaFrance, L.J.	145, 149, 163, 199, 228
Kesel, R.C.	149, 150	Lamm, M.	70
Keutmann, E.H.	144, 146, 147	Lamson, B.G.	25
Kimball, C.P.	172, 231	Lan, T.H.	227
Kingsley, H.D.	76, 109, 115, 205	Larrabee, C.	44, 56, 195, 198
Knight, K.	17	Laskin, S.	7, 8, 9, 10, 55, 76, 126, 127, 128, 143, 144, 146, 148, 150, 167, 196, 198, 199, 200, 219, 227
Konnerth, A.	107, 108	Lauenstein, K.	29, 98
Konno, K.	32, 100	Laush, G.	153
Kosel, G.E.	54, 56, 60, 144, 146, 233	Lauterbach, K.E.	7, 8, 9, 126, 127, 128, 129, 144, 148, 164, 198, 201, 221
Koszalka, J.M.	107	Lavin, M.	97
Koszalka, T.R.	30, 33, 35	Lawrence, J.S.	117, 118, 125, 172, 229, 231
Kowlessar, O.D.	30, 94, 96	Leach, L.J.	7, 8, 126, 127, 128, 129, 148, 150, 161, 164, 165, 185, 200, 201, 221
Krebs, C.A.	177	Leary, D.E.	211, 212, 213
Kreig, D.R.	207, 239	Leathem, J.H.	225
Kresge, M.	83	Lehmann, E.E.	208, 210
Krolak, L.J.	109, 110, 111, 112, 115, 133, 135, 207		
Kurath, P.	29, 30		
Kusnetz, H.L.	225		
LaBelle, C.W.	7, 8, 126, 127, 137, 143, 144, 155, 196, 198, 199, 200, 219, 226, 227, 232		

INDEX OF AUTHORS

	<u>Page</u>		<u>Page</u>
Leighton, A.	76	Main, E.R.	13, 63, 64, 191, 193, 194, 200
Lennox, E.	132	Mann, W.	13, 24, 56, 196, 227, 228, 231
Leone, N.C.	160	Manrodt, S.	26
Lerman, B.	114	Marinetti, G.	60
LeSher, M.F.	157, 199	Markham, J.	86, 105
Levi, H.	11	Marshall, V.F.	209
Levinskas, G.J.	66, 67, 68, 70, 235	Marti, N.	120
Lewis, L.	101, 237	Martin, A.E.	76
Lie, R.	166, 169, 215	Martin, G.R.	31, 32, 71, 72, 225, 240
Light, A.E.	161	Mason, K.E.	85, 102, 205
Little, K.D. (See also Davis, K.H.)	213, 216, 239	Mason, W.B.	17, 27, 57, 59, 60, 61, 62, 75, 87, 90, 96, 98, 119, 211, 212, 213, 223, 229, 230
Little, M.F.	211	Masters, R.E.	14, 37
Lobene, R.	52, 53, 54		
Loewenstein, B.	50		
Lofstrom, J.E.	170		
Looney, W.B.	185		
Lovaas, A.	102, 182, 238		
Lovejoy, F.W., Jr.	145, 148		
Low, R.J.	76		
Lyon, J.L.	111, 112, 116		
Maas, R.	82		

INDEX OF AUTHORS

	<u>Page</u>		<u>Page</u>
Maynard, E.A.	26, 142, 143, 144, 145, 146, 149, 150, 151, 154, 155, 156, 157, 162, 163, 164, 165, 166, 167, 168, 169, 170, 184, 185, 187, 188, 190, 191, 195, 197, 199, 200, 201, 202, 203, 205, 218, 219, 225, 227	Mermagen, H.	76, 133, 137, 206
McCauley, H.B.	159	Metcalf, R.G.	84, 85, 186, 226, 229, 230, 231
McConnell, K.P.	163, 205	Michaelson, S.M.	35, 40, 92, 95, 98, 99, 100, 101, 103, 107, 108, 124, 213, 223, 224
McDonald, E.	230	Milani, R.E.	101, 237
McDonnel, G.M..	104	Millar, F.K.	36, 235
McGovern, G.R.	225	Miller, G.J.	16, 26, 74, 75, 123, 163, 206
McKane, A.	122	Miller, J.	120, 186
Megirian, D.	65, 211, 216, 233, 237	Miller, L.L.	13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24, 25, 26, 27, 28, 29, 31, 32, 33, 34, 35, 37, 38, 39, 41, 42, 84, 87, 88, 206, 208, 210, 222,
Megirian, R.	19, 21, 163, 167, 199, 201, 235	Miller, R.W.	87, 88, 89, 90, 106, 107
Mehrhof, E.	9	Minor, J.	192
Meier, D.W.	126, 127	Minto, W.L.	172, 231
Meier, R.C.	16, 24, 44, 45, 47, 48, 51, 74, 145, 197, 198, 199	Mitchell, J.	7
Mercer, T.T.	8, 128, 134, 137, 206, 238	Mixter, G., Jr.	110, 111, 112

INDEX OF AUTHORS

	<u>Page</u>		<u>Page</u>
Mohney, J.B.	84, 94	Murphy, N.	126
Monture, E.	82	Mutschler, L.E.	39, 42
Monty, K.J.	29	Myers, H.M.	72, 239
Moore, R.	32, 34, 43	Neufeld, H.A.	21, 27
Morgan, B.H.	97	Neuman, M.W.	11, 53, 64, 68, 69, 71, 144, 155, 193, 194, 223
Morgan, H.R.	205		
Morken, D.A.	8, 9, 133, 135, 158, 160, 181, 183, 213, 237	Neuman, W.F.	11, 14, 15, 16, 18, 19, 21, 22, 25, 26, 28, 29, 30, 31, 32, 45, 53, 54, 55, 56, 57, 59, 60, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 128, 143, 144, 145, 146, 149, 155, 167, 168, 181, 184, 185, 186, 187, 188, 191, 192, 193, 194, 196, 197, 198, 200, 202, 204, 213, 214, 218, 219, 220, 222, 223, 225, 227, 228
Morrison, M.	29		
Morrow, P.E.	8, 9, 19, 26, 28, 75, 127, 128, 129, 165, 171, 174, 175, 176, 177, 178, 210, 213, 214, 217, 221, 223, 233		
Morton, J.H.	109, 115, 205		
Morton, J.J.	25		
Mulryan, B.J.	16, 19, 29, 31, 32, 55, 63, 64, 65, 66, 67, 68, 69, 71, 72, 187, 191, 192, 193, 194, 197, 200, 225	Nevin, R.B.	160
Murden, C.H.	109	Nielsen, G.	86, 89, 120
Murlin, J.R.	27	Noonan, A.M.	88

INDEX OF AUTHORS

	<u>Page</u>		<u>Page</u>
Noonan, T.R.	11, 14, 18, 24, 37, 82, 83, 86, 88, 92, 93, 95, 96, 100, 103, 164, 165, 168, 170, 175, 220, 221, 224	Papadopoulou, Z.	30
		Papageorge's, N., Jr.	120
		Parks, H.F.	79, 80
		Passow, H.	47, 50, 214
North, C.A.	208, 215	Payne, F.W.	113, 114, 222
Novitski, E.	82, 204	Payne, J.T.	76, 109, 115, 205
Nussbaum, E.	182, 239	Peachey, L.D.	79, 80, 98
Oberg, H.A.	7, 139, 140, 141, 189, 191, 192	Pearse, H.E.	109, 110, 111, 112, 113, 114, 115, 116, 133, 222
O'Brien, J.A.	158, 179, 239		
O'Brien, J.F.	136, 238	Pearson, R.	148
O'Brien, M.	82	Pekola, J.S.	75
O'Connell, P.W.	73	Perkins, J.B.	109
Okada, S.	30, 98	Peters, P.A.	39, 42
O'Leary, J.C.	188	Petropoulos, M.C.	97, 120
O'Leary, J.F.	14, 15, 54, 64, 73, 188, 200, 232	Pettengill, A.G.	143, 145, 146, 197, 219
O'Leary, J.J.	215, 233	Platt, D.	86, 89, 120, 121
Orcutt, J.A.	153, 188, 193, 226, 232	Piccirilli, A.	182
Osterhoudt, J.	67	Pillemer, L.	98
Otis, E.M.	90, 205	Platt, J.B.	135
Overton, D.E.	159	Plosscone, R.P.	210

INDEX OF AUTHORS

	<u>Page</u>		<u>Page</u>
Potter, J.L.	30, 61	Roberts, E.	24, 186, 187, 188, 190, 191, .192, 195, 226, 227, 228
Potter, J.P.	9, 241	Robinson, R.A.	79, 81
Pozzani, U.C.	189, 190, 227	Robscheit-Robbins, F.S.	28
Prankerd, T.A.J.	121, 122, 124	Rodgers, J.	54
Provoost, A.T. (See also Casarett, A.P.)	101, 235	Root, R.E.	146, 147, 148, 150, 151, 156, 184
Putnam, T.E.	182, 183, 237	Rosenzweig, W.	234
Quinn, G.P.	215	Ross, M.H.	84, 230
Radakovich, M.	29, 30, 31, 95, 225	Rossi, H.E.	136
Rahn, H.	212	Roth, R.E.	112, 113
Ramsey, G.	210	Rothe, W.E.	165, 239
Randall, C.	200, 201, 232	Rothermel, J.J.	191, 192, 227
Rausa, G.J.	134, 138, 235	Rothstein, A.	16, 24, 26, 34, 37, 44, 45, 46, 47, 48, 49, 50, 51, 56, 73, 74, 126, 143, 144, 163, 164, 165, 166, 188, 189, 191, 192, 193, 195, 196, 197, 198, 199, 202, 214, 215, 219, 220, 221, 222, 225, 226, 227, 228
Reinhardt, G.E.	53	Rothstein, M.	17, 18, 19, 20, 21, 27
Rekers, P.E.	83, 84, 85, 104, 117, 118, 120, 204		
Rene, R.M.	163		
Richmond, J.E.	15, 16, 17, 18, 20, 21, 26, 27, 28, 30, 86, 87, 94, 121, 125, 233, 237		
Riley, R.F.	69		
Roberts, C.J., Jr.	101, 134, 237		

INDEX OF AUTHORS

	<u>Page</u>		<u>Page</u>
Rouser, G.L.	18, 44, 60, 70, 125, 235	Scharff, T.G.	45, 51, 158, 238
Rouvina, J.	132	Schepartz, A.I.	189, 193
Rowe, V.K.	167	Schilling, J.A.	95, 208
Rowe, W.B.	36, 240	Schlamowitz, M.	53, 192
Rowley, J.	211	Schlegel, B.	33
Rushing, D.E.	225	Schlesinger, M.J., Jr.	107, 108, 235
Russel, E.R.	121		
Sadoul, P.	212	Schreier, K.	95, 97
Salisbury, P.	120	Schulman, M.	35, 99, 100, 102, 240
Salomon, K.	11, 13, 14, 15, 16, 17, 18, 20, 21, 24, 25, 26, 27, 28, 30, 33, 35, 37, 41, 42, 86, 87, 93, 94, 97, 99, 100, 120, 121, 123, 166, 167, 174, 215	Scott, D.C.	78
Salvatore, J.	61, 98	Scott, J.K.	76, 87, 91, 95, 121, 128, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 163, 164, 165, 166, 169, 173, 177, 182, 184, 185, 197, 198, 199, 200, 201, 205, 208, 218, 220, 221
Same, E.	189	Scott, R.G.	57
Sanders, A.P.	234	Seeger, J.	106
Sanfilippo, S.J.	15	Segal, H.L.	25, 210
Sanford, R.A.C.	7, 139, 140, 186, 191	Shandley, P.D.	180, 181, 183, 236
Sarcione, E.J.	32, 33		
Saunor, P.	177		

INDEX OF AUTHORS

	<u>Page</u>		<u>Page</u>
Shapiro, J.V.	8, 181, 182, 183, 212, 237	Smith, F.A. (Cont'd)	175, 176, 177, 178, 197, 198, 200, 210, 214, 219, 224, 227
Shaver, A.	84		
Shaver, S.L.	85, 88, 89, 102, 205, 233	Smith, G.A.	30, 165, 166, 169
Sherman, R.E.	57, 58	Smith, N.B.	153, 188
Shilen, J.	142	Smith, P.H.	101, 236
Shively, J.N.	92, 98	Smith, W.K.	90
Shourie, K.L.	159, 215	Smith, W.W.	94, 108
Shrier, J.	86, 105, 119	Smull, K.	24
Siegal, G.	186	Snape, W.J.	24
Sikov, M.R.	92, 164, 165, 168, 169, 170, 238	Sognnaes, R.F.	209
		Sokal, J.E.	32, 33
Silberstein, H.E.	172, 180, 231	Solomons, C.C.	71
Simon, G.A.	127, 233	Spar, I.L.	23, 38, 39, 40, 41, 42, 43, 210
Sippel, T.O.	217		
Slater, I.H.	21, 207, 211	Sparks, A.F.	144, 146, 184
Smith, C.G.	30	Spencer, W.F.	103, 167, 229
Smith, D.S.	90, 236	Spiegl, C.J.	24, 128, 129, 137, 144, 145, 146, 147, 148, 149, 151, 163, 164, 165, 187, 188, 189, 192, 193, 194, 203, 221, 226, 227, 228
Smith, F.A.	23, 55, 57, 58, 60, 64, 66, 73, 94, 145, 146, 147, 148, 150, 151, 155, 156, 157, 158, 159, 160, 161, 162, 174,		

INDEX OF AUTHORS

	<u>Page</u>		<u>Page</u>
Sprague, G.F., Jr.	143, 144, 145, 150, 163, 193, 197, 204, 219, 226, 227	Stokinger, H.E. (Cont'd)	184, 186, 187, 189, 195, 196, 197, 198, 199, 200, 204, 208, 219, 226, 227, 228
Spraragen, S.C.	18, 234		
Stannard, J.N.	12, 15, 48, 49, 51, 57, 76, 77, 85, 87, 91, 95, 173, 174, 175, 176, 177, 178, 206, 207, 214, 217, 221, 223, 224	Stoll, W.R.	68, 70, 72, 238
		Stotz, E.	29
		Strain, W.H.	210
		Strates, B.	31, 68, 70, 72, 238
Steadman, L.T.	8, 52, 53, 55, 56, 76, 82, 83, 84, 85, 87, 89, 98, 146, 147, 148, 151, 152, 162, 165, 166, 168, 169, 184, 185, 186, 193, 211, 214, 227, 228	Stroud, C.A.	147, 148, 150, 151, 184
		Struthers, A.	121
		Stuart, B.O.	51, 240
		Suhrland, L.G.	80, 208
		Sultzer, M.R.	181, 236
Steinberg, C.L.	158, 161	Sundvall-Hagland, I.	162
Steinhard, T.H.	164	Sunier, A.A.	73
Stern, C.	82, 103, 204, 229, 230	Suter, G.M.	117, 125, 231
Stern, E.	184	Swisher, S.N.	105, 106, 107, 121, 122, 124
Stokinger, H.E.	7, 8, 9, 16, 52, 73, 126, 139, 140, 143, 144, 145, 146, 147, 148, 150, 151, 155, 156, 163, 164, 165,	Sylvester, G.E.	7, 8, 129, 164, 197, 198, 199, 200, 201
		Tabechian, H.	30, 160, 222

INDEX OF AUTHORS

	<u>Page</u>		<u>Page</u>
Tarbell, A.T.	52, 53, 140	Tuttle, L.W.	91, 92, 95, 96, 97, 100, 116, 122, 124, 164, 165, 168, 169, 174, 178, 207, 211, 213, 221, 224
Taylor, J.M.	36, 162, 165, 239, 240		
Terepka, A.R.	34, 70, 71		
Thale, T.	166, 167		
Thomas, R.G.	101, 165, 166, 169, 174, 175, 176, 178, 179, 184, 185, 224, 232, 238	Underwood, A.L., Jr.	54, 55, 56, 59, 60, 67, 74, 148, 233
		Underwood, E.E.	64, 65, 69, 232
Thompson, H.E.	25, 53, 83, 84, 85, 193, 228	Uphoff, D.	82
		Valentine, W.N.	117, 118, 125, 172, 229, 231
Thomson, R.A.E.	35, 101, 124	VanAlstine, H.	196
Tidball, C.S.	74, 163, 167, 199, 234	VanSlyke, F.	86, 91, 95
Tiedeman, D.V.	117, 226, 231	VanSlyke, H.N.	61
Tihen, J.A.	217	VanValkenburg, P.A.	84, 94
Tishkoff, G.H.	14, 15, 52, 53, 73, 75, 227, 233	Velasquez, T.	145
Toporek, M.	17, 18, 26, 234	Vittum, E.K.	231
		Voegtlin, C.	163, 170, 187, 202, 226, 227, 228
Toribara, T.Y.	19, 28, 34, 56, 57, 58, 59, 61, 66, 67, 68, 70, 71, 74, 75, 211, 223	Voss, M.J.	53
		Vosteen, R.E.	129, 137
Trunnell, J.B.	209	Vyverberg, R.G.	133, 134, 233
Turner, R.A.N.	7, 142, 219	Wanta, R.C.	151

INDEX OF AUTHORS

	<u>Page</u>		<u>Page</u>
Wantman, M.J.	117, 226	Whitmore, W.F.	209
Ware, E.	53, 54	Wiberg, J.S.	30, 33, 36, 239
Warner, H.	59, 61	Wichser, F.W.	190
Warner, R.S.	209	Williams, A.I.	11, 231
Warren, S.L.	24, 218	Williams, D.B.	109
Waterhouse, C.	25, 36, 37, 144, 146, 147, 196	Williams, L.B.	167, 169, 233
Watman, R.N.	123	Wills, J.H.	13, 188, 191, 200, 202, 226, 227
Watson, M.L.	15, 25, 37, 68, 78, 79, 80, 81, 234	Wilson, D.E.	96
Watson, R.	86, 89	Wilson, H.B.	7, 8, 54, 59, 164, 189, 190, 195, 196, 197, 198, 199, 200, 201, 227
Watts, N.P.	173, 205, 216	Wilson, J.G.	82, 84, 86, 87, 89, 102
Wedd, A.M.	209, 212	Wilson, R.H.	7, 10, 126, 127, 128, 129, 166, 214, 221
Weikel, J.H., Jr.	66, 67, 68, 71, 220, 237	Wing, D.	156
Weil, C.S.	52, 54, 153, 154, 163, 189, 190	Wirts, C.W.	24
Weiss, C.	214	Witter, R.F.	79
Welton, J.	121	Wolf, B.S.	151
Whipple, G.H.	14, 25, 28	Wolfe, D.E.	38, 39, 40, 43
Whipple, G.H., Jr.	87, 89, 133, 177, 206, 213, 236	Wood, D.	58
White, F.A.	132	Woodard, H.Q.	209
White, N.G.	201, 237		

INDEX OF AUTHORS

	<u>Page</u>
Woodsum, H.C.	135, 236
Woolrich, P.F.	225
Wright, M.	86, 120
Yaeger, R.G.	196, 227
Yettewich, G.	89, 120, 121
Young, H.Y.	25
Young, L.E.	30, 119, 122, 123, 124, 160
Y., N.G.	148
Yuile, C.L.	14, 25
Zizzo, S.G.	134, 135, 138, 233