

Lawrence Berkeley National Laboratory

Recent Work

Title

A BIBLIOGRAPHY OF BIOLOGICAL APPLICATIONS OF AUTORADIOGRAPHY, 1954 THROUGH 1957

Permalink

<https://escholarship.org/uc/item/7pj7t0pw>

Author

Johnston, Muriel E.

Publication Date

1958-07-01

UCRL-8400

cy 2-
7

University of California

Ernest O. Lawrence
Radiation Laboratory

TWO-WEEK LOAN COPY

*This is a Library Circulating Copy
which may be borrowed for two weeks.
For a personal retention copy, call
Tech. Info. Division, Ext. 5545*

Berkeley, California

DISCLAIMER

This document was prepared as an account of work sponsored by the United States Government. While this document is believed to contain correct information, neither the United States Government nor any agency thereof, nor the Regents of the University of California, nor any of their employees, makes any warranty, express or implied, or assumes any legal responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights. Reference herein to any specific commercial product, process, or service by its trade name, trademark, manufacturer, or otherwise, does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof, or the Regents of the University of California. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or any agency thereof or the Regents of the University of California.

UNIVERSITY OF CALIFORNIA

Radiation Laboratory
Berkeley, California

Contract No. W-7405-eng-48

A BIBLIOGRAPHY OF BIOLOGICAL APPLICATIONS
OF AUTORADIOGRAPHY, 1954 THROUGH 1957

Muriel E. Johnston

July 1958

A BIBLIOGRAPHY OF BIOLOGICAL APPLICATIONS
OF AUTORADIOGRAPHY, 1954 THROUGH 1957

Muriel E. Johnston

Crocker Laboratory
University of California Radiation Laboratory
Berkeley

July 1958

The following bibliography is designed to be added to that compiled by G. A. Boyd in "Autoradiography in Biology and Medicine." It primarily covers the literature of the years 1954 through 1957, but it contains also some entries for 1953 omitted from Boyd's work, and those entries for 1958 encountered in the literature search. No attempt has been made to include articles which use autoradiography merely as an adjunct to the technique of paper chromatography. Those articles marked with an asterisk were unavailable for checking by the author.

- Abercrombie, M., and R. Bellairs, The Effects in Chick Blastoderms of Replacing the Primitive Node by a Graft of Posterior Primitive Streak, *J. Embryol. Exp. Morph.* 2: 55-72, 1954.
- Adley, F. E., and D. E. Wisehart, Appraisal of Autoradiographs of Microscopic Particle Specimens, *Internat. J. Appl. Radiation* 1: 314-5, 1957.
- Afanas'eva, E. V., Technic of Radiographic Investigation of Tissue without Fixation, *Voprosy Onkologii* 1(4): 95-8, 1955.*
- Altman, J. H., and K. F. Stultz, Microdensitometer for Photographic Research, *Rev. Sci. Instr.* 27: 1033-6, 1956.
- Amprino, R., La Demonstration des Sels de Calcium dans les Tissue Normaux et Pathologiques, *Gazeta Medica Portuguesa* 7(1): 212-4, 1954.*
- Amprino, R., Étude Autoradiographique par le Radiosoufre de la Différenciation du Cartilage, *Comp. Rend. Ass. Anat.* 41: 633-43, 1954.
- Amprino, R., Distribution of S³⁵- Sodium Sulfate in Early Chick Embryos, *Experientia* 11: 19-21, 1955.
- Amprino, R., On the Incorporation of Radiosulfate in the Cartilage, *Experientia* 11: 65-7, 1955.

- Amprino, R., Autoradiographic Research on the S^{35} -Sulphate Metabolism in Cartilage and Bone Differentiation and Growth, *Acta Anat.* 24: 121-63, 1955.
- Amprino, R., and F. Camanni, Studio Istoradiografico ed Autoradiografico dei Tessuti Calcificati del Dente, *Boll. Soc. Ital. Biol. Sper.* 29(6): 1161-3, 1953.
- Amprino, R., and E. Pansa, Ricerche Sulla Differenziazione e Sull' Accrescimento della Cartilagine Incondizioni Meccaniche Sperimentalmente Modificate, *Archiv Fur Entwicklungsmechanik* 148: 179-94, 1955.
- Anderson, W. A. D., G. E. Zander, and J. F. Kuzuma, Cancerogenic Effects of Ca^{45} and Sr^{89} on Bones of CF1 Mice, *A.M.A. Arch. of Pathol.* 62: 262-71, 1956.
- Andre, T., Studies on the Distribution of Tritium-Labelled Dihydrostreptomycin and Tetracycline in the Body, *Acta Radiol., Supp.* 142: 1-89, 1956.
- Andresen, N., C. Chapman-Andresen, and H. Holter, Autoradiographic Studies on the Amoeba 'Chaos Chaos' with $14C$, *Compt. Rend. Trav. Lab. Carlsberg, Ser. Chim.* 28: 189-220, 1952.
- Andresen, N., C. Chapman-Andresen, H. Holter, and C. V. Robinson, Quantitative autoradiographic studies on the Amoeba Chaos Chaos with $14C$, *Comp. Rend. Trav. Lab. Carlsberg; Seri. Chim.* 28(22-23): 499-528, 1953.
- Andrews, G. A., R. M. Kniseley, R. R. Bigelow, S. W. Root, and M. Brucer, Pathologic Changes in Normal Human Thyroid Tissue Following Large Doses of I^{131} , *Am. J. Med.* 16: 372-81, 1954.
- Andrews, G. A., R. M. Kniseley, E. L. Palmer, and A. L. Kretchmar, Therapeutic Usefulness of Radioactive Colloids: Comparative Value of Gold-198, Chromic Phosphate (P^{32}), Yttrium-90 and Lutetium-177, *Proceedings of the International Conference on the Peaceful Uses of Atomic Energy, Vol. 10, United Nations, New York, pp. 122-37, 1956.*
- Aragao, M. B., E. Frota-Pessoa, and N. Margem, A New Radioactive Method for Marking Mosquitos and its Application, *Proceedings of the International Conference on the Peaceful Uses of Atomic Energy, Vol. 10, United Nations, New York, pp. 525-28, 1956.*
- Armstrong, W. D., Radiotracer Studies of Hard Tissues, *Ann. N. Y. Acad. Sci.* 60(5): 670-684, 1955.
- Arnold, J. S., An Improved Tecnic for Liquid Emulsion Autoradiography, *Proc. Soc. Exptl. Biol. and Med.* 85(1): 113-6, 1954.
- Arnold, J. S., and W. S. S. Jee, Preparing Bone Sections for Radioautography, *Stain Technol.* 29(2): 49-54, 1954.

- Arnold, J. S., and W. S. S. Jee, Embedding and Sectioning Undecalcified Bone and its Application to Radioautography, *Stain Technol.* 29: 225-39, 1954.
- Arnold, J. S., B. J. Stover, and M. A. Van Dilla, Failure of Y^{90} to Escape from Skeletally-Fixed Sr^{90} , *Proc. Soc. Exptl. Biol. and Med.* 90: 260-63, 1955.
- Arnold, J. S., W. S. S. Jee, and K. Johnson, Observations and Quantitative Radioautographic Studies of Calcium-45 Deposited *in vivo* in Forming Haversian Systems and Old Bone of Rabbit, *Am. J. Anat.* 99: 291-313, 1956.
- Arnold, J. S., and W. S. S. Jee, Bone Growth and Osteoclastic Activity as Indicated by Radioautographic Distribution of Plutonium, *Am. J. Anat.* 101: 367-94, 1957.
- Aronoff, S., Translocation from Soybean Leaves. II, *Plant Physiol.* 30: 184-5, 1955.
- Asboe-Hansen, G., Autoradiography of Mast Cells in Experimental Skin Tumours of Mice Injected with Radioactive Sulfur ($S-35$), *Cancer Research* 13(8): 587-9, 1953.
- Asboe-Hansen, G., Autoradiographic Evidence of Cortisone Action on Mast Cells in Experimental Skin Tumors, *Cancer Research* 14: 94-5, 1954.
- Asling, C. W., P. W. Durbin, M. W. Parrott, M. E. Johnston, and J. G. Hamilton, Evidence for Function of Aberrant Thyroid Tissue in Thymus of Rats, *Proc. Soc. Exptl. Biol. and Med.* 94: 200-01, 1957.
- Asling, C. W., M. E. Johnston, P. W. Durbin, and J. G. Hamilton, Localization of Cerium-144 in the Skeletal Tissues of Fetal Rats, University of California Radiation Laboratory Report No. 8024, pp. 1-28, October, 1957.
- Austoni, M. E., Autoradiographic Studies on Iron-59 Turnover by Erythroid Cells in Rat Bone Marrow, *Proc. Soc. Exptl. Biol. and Med.* 85: 48-51, 1954.
- Austoni, M., Cytoradioautographic Studies on Utilization of Radioactive Iron by Immature Erythrocytes of Rat Bone Marrow, *Wien Z. inn. Med.* 35: 151-57, 1954.*
- Austoni, M. E., Cytoautoradiography: Fe^{59} Uptake by Bone Marrow Cells. I. Normal Human Erythroblasts and Young Erythrocytes, *Proc. Soc. Exptl. Biol. and Med.* 92: 6-9, 1956.
- Barnes, C. M., D. E. Warner, S. Marks, and L. K. Bustad, Thyroid Function in Fetal Sheep, *Endocrinology* 60: 325-8, 1957.
- Barrier, G. E., and W. E. Loomis, Absorption and Translocation of 2,4-Dichlorophenoxyacetic Acid and P^{32} by Leaves, *Plant Physiol.* 32: 225-31, 1957.
- Basser, A. G., The Uptake of Radioiodine by the Thyroid Cells using Nuclear Emulsion, *Med. J. Australia* 1: 1003-4, 1956.

- Bauer, G. C. H., Long Term Redistribution of Bone Sodium Studied in Rats by Means of Na^{22} Radio-Autography, *Acta Orthopaed. Scand.* 23(3): 192-7, 1954.
- Bauer, G. C. H., Metabolism of Bone Sodium in Rats Investigated with Na^{22} , *Acta Physiol. Scand.* 31: 334-350, 1954.
- Bazerque, P. M., C. M. Maroni, and D. E. Pujo, Localizaciones del Uranio en Tejidos, *Semana Med. (Buenos Aires)* 104: 839-40, 1954.*
- Bejdl, W., Ein Beitrag zur Answertung von Autoradiographien Histologischer Präparate, *Mikroskopie (Wien)* 9(7-8):234-9, 1954.
- Belanger, L. F., Autoradiographic Detection of Sulfur-35 Synthesis by Mucous Neck Cells of the Rat's Stomach, *Nature* 172: 1150, 1953.
- Belanger, L. F., Autoradiographic Visualization of S-35 Incorporation and Turnover by the Mucous Glands of the Gastrointestinal Tract and other Soft Tissues of Rat and Hamster, *Anat. Record* 118: 755-771, 1954.
- Belanger, L. F., Autoradiographic Visualization of the Entry and Transit of S-35 in Cartilage, Bone, and Dentine of Young Rats and the Effect of Hyaluronidase *In Vitro*, *Canad. J. Biochem. Physiol.* 32: 161-69, 1954.
- Belanger, L. F., Autoradiographic Visualization of Ca-45 Intake by Normal and Pathological Cartilage *In Vitro*, *Proc. Soc. Exptl. Biol. and Med.* 88(1): 150-2, 1955.
- Belanger, L. F., Autoradiographic Detection of Radiosulfate Incorporation by the Growing Enamel of Rats and Hamsters, *J. Dental Research* 34(1): 20-7, 1955.
- Belanger, L. F., Autoradiographic Visualization of the Entry and Transit of S-35 Methionine and Cystine in the Soft and Hard Tissues of the Growing Rat, *Anat. Record* 124(3): 555-79, 1956.
- Belanger, L. F., The Entry of Ca-45 into the Skin and other Soft Tissues of the Rat: An Autoradiographic and Spodographic Study, *J. Histochem. Cytochem.* 5: 65-71, 1957.
- Belanger, L. F., The Mineralization of Rat Enamel in the Light of Ca^{45} Autoradiography and Microincineration, *J. Dental Research* 36: 595-601, 1957.
- Belanger, L. F., Microdensitometry of Autoradiographs of S^{35} Methionine Incorporation at the Epiphyseal Plate of Normal and Magnesium Deficient Rats, *J. Histochem. Cytochem.* 6: 96, 1958. Abstract.

- Belanger, L. F., Quantitative Appreciation by Comparative Autoradiography of the Synthesis and Maintenance of some Organic Constituents of the Epiphyseal Plate of Growing Rats, in Relation with Magnesium Deficiency, *J. Histochem. Cytochem.* 6: 146-53, 1958.
- Belanger, L. F., C. Belanger, P. Burke, and P. C. Tremblay, Autoradiographic Visualization of Calcium intake in vitro by Sulfopolysaccharides present in Cartilage and Arteries, *J. Histochem. Cytochem.* 2: 467-69, 1954. Abstract.
- Belanger, L. F., W. E. Lotz, W. J. Visek, and C. L. Comar, Autoradiographic Visualization with Ca-45 of Normal Growth of the Incisor of Pigs and the Effect of Fluorine Feeding, *Anat. Record* 119(1): 53-69, 1954.
- Belanger, L. F., and D. Magner, Autoradiographic Visualization of Radio-calcium and Radiosulfur in vitro uptake by Bone Tumors, *Cancer* 10: 1110-13, 1957.
- Belanger, L. F., W. J. Visek, W. E. Lotz, and C. L. Comar, The Effects of Fluoride Feeding on the Organic Matrix of Bones and Teeth of Pigs as observed by Autoradiography after in vitro uptake of Ca⁴⁵ and S³⁵, *J. Biophys. Cytol.* 3: 559-66, 1957.
- Berenbaum, M. C., Autoradiographic Localization and Measurement of Intracellular Antibody, using labelled Antigen, *Nature* 177(4497): 46-7, 1956.
- Berenbaum, M. C., and C. A. Birch, Thorium Deposits in the Liver, Demonstrated during Life, *Lancet* 265(6791): 852-5, 1953.
- Bergstrom, I., and E. Lindgren, Treatment of Malignant Blood Diseases by Radioactive Phosphorus. Part I. Clinical Aspects, *Acta Radiol. Supp.* 150: 1-107, 1957.
- Bergstrom, I., and G. Magnusson, Autoradiografiska Studier over Fe⁵⁹-Upptagningen, *Nordisk Medicin* 50(51): 1736-8, 1953.
- Bern, H. A., Histology and Chemistry of Keratin Formation, *Nature* 174: 509-11, 1954.
- Bern, H. A., D. R. Harkness, and S. M. Blair, Studies of Vaginal Keratinization with the aid of Radiocystine, *J. Clin. Endocrinol. and Metabolism* 14: 797, 1954. Abstract.
- Bern, H. A., D. R. Harkness, and S. M. Blair, Radioautographic Studies of Keratin Formation, *Proc. Nat. Acad. Sci.* 41: 55-60, 1955.
- Bernard, S. R., and E. G. Struxness, A Study of the Distribution and Excretion of Uranium in Man. An Interim Report, Oak Ridge Nat'l. Lab. Report No. 2304, pp. 1-57, 1957.

- Biddulph, S. F., Visual Indications of S^{35} and P^{32} Translocation in the Phloem, *Am. J. Bot.* 43: 143-48, 1956.
- Biddulph, O., R. Cory, and S. Biddulph, The Absorption and Translocation of Sulfur in the Red Kidney Bean, *Plant Physiol.* 31: 28-33, 1956.
- Biddulph, O., and R. Cory, An Analysis of Translocation in the Phloem of the Bean Plant using THO , P^{32} , and C^{14} , *Plant Physiol.* 32: 608-19, 1957.
- Boll, I., Studien zur Proliferationsaktivitat des Menschlichen Knochenmarks Mittels Einzelzell Autoradiographien nach Radiophosphor zusatz in vitro, *Acta Haematologica* 18: 390-403, 1957.
- Boll, I., and H. G. Mehl, Phosphoraufnahme von Plasmocytom- und Normalen Knochenmarkzellen in vitro, *Klin. Wchnschr.* 34: 157-60, 1956.
- Boström, H., U. Friberg, E. Odeblad, and N. Ringertz, Uptake of labelled Sulphate by Experimental Skin Tumours in the Rat and the Mouse, *Acta Pathol. Microbiol. Scand.* 35(1): 1-7, 1954.
- Boström, H., E. Jorpes, and E. Odeblad, An Autoradiographic Study on the uptake of Se^{75} -labelled Sodium Selenate by different Organs of the Adult Rat, *Acta Physiol. Scand.* 28(2-3): 255-60, 1953.
- Boström, H., and E. Jorpes, On the Enzymatic Exchange of the Sulphate Group of the Animal Sulphomucopolysaccharides, *Experientia* 10: 392-6, 1954.
- Boström, H., and E. Odeblad, An Autoradiographic Study on the Occurrence of Injected Radiosulphate in the Intestine, *Acta Physiol. Scand.* 32(2-3): 124-8, 1954.
- Bowsher, D., Pathways of Absorption of Protein from Cerebrospinal Fluid: An Autographic Study in the Cat, *Anat. Record* 128: 23-39, 1957.
- Boyd, G. A., *Autoradiography in Biology and Medicine*, Academic Press, New York, pp. 399, 1955.
- Boyd, J. D., Radioisotopes in the Qualitative Study of Dentinal Sclerosis, *J. Dental Research* 34: 674, 1955. Abstract.
- Boyd, J. D., Dental Autoradiography. I. Choice of Radioisotope, *J. Dental Research* 36(2): 274-80, 1957.
- Boyd, J. D., R. W. Sims, and D. R. Osgood, Dental Autoradiography. II. Effect of Printing Technics on Interpretation, *J. Dental Research* 36(2): 281-5, 1957.

- Boyd, J. D., R. W. Sims, Jr., D. R. Osgood, and A. S. Blum, Photographic versus Autoradiographic Portrayal of Dental Structure, *Internat. J. Appl. Radiation* 3: 8-12, 1958.
- Brachet, J., Effects of Ribonuclease on the Metabolism of Living Root-Tip Cells, *Nature* 174: 876-7, 1954.
- Brachet, J., Action of Ribonuclease and Ribonucleic Acid on Living Amoebae, *Nature* 175: 851-2, 1955.
- Brachet, J., Biochemical Cytology, Academic Press, New York, pp. 516, 1957.
- Brachet, J. E., E. Baltus, A. Ficq, Y. Skreb, and Y. Thomas, L'action de la Ribonuclease et de L'acide Ribonucleique sur des Amibes Vivantes, *Arch. Intern. Physiol.* 63: 253-4, 1955. Abstract.
- Brachet, J., and A. Ficq, Remarques a Propos du Role Biologique des Acides Nucleiques, *Arch. Biol. (Liege)* 67: 431-46, 1956.
- Brattgaard, S. O., and T. Lindquist, Demonstration of ⁸²Br in Nerve Cells, *J. Neurol., Neurosurg. Psychiat.* 17: 11-13, 1954.
- Breslau, A. M., Photographic and Photometric Processes in Cytochemistry, *J. Biol. Photogr. Assoc.* 21(4): 19-21, 1953.
- Bronner, F., Disposition of Intraperitoneally Injected Calcium-45 in Suckling Rats, *J. Gen. Physiol.* 41: 767-82, 1958.
- Brown, J. C., and R. S. Holmes, Iron, the Limiting Element in a Chlorosis: Part I. Availability and Utilization of Iron Dependent upon Nutrition and Plant Species, *Plant Physiol.* 30: 451-7, 1955.
- Bruce-Chwatt, L. J., and J. Hayward, Uptake of Radioactive Phosphorus by Larvae and Adults of Mosquitoes, *Nature* 177: 661-2, 1956.
- Bruce, M., Isotopes in Medicine - Are They Worth the Trouble?, Oak Ridge Institute of Nuclear Studies, Report No. 17, pp. 1-41, 1957.
- Buck, R. C., Uptake of Radioactive Sulfate by Arteries of Normal and Cholesterol-Fed Rabbits, *J. Histochem. Cytochem.* 3: 435-40, 1955.
- Bukovac, M. J., S. H. Wittwer, and H. B. Tukey, Anesthetization by Di-Ethyl Ether and the Transport of Foliar Applied Radiocalcium, *Plant Physiol.* 31: 254-5, 1956.
- Bukovac, M. J., and S. H. Wittwer, Absorption and Mobility of Foliar Applied Nutrients, *Plant Physiol.* 32: 428-35, 1957.
- Butcher, E. O., Penetration of Radioactive Stearic Acid into the Skin of the Rat, *J. Investigative Dermatology* 21(4): 243-7, 1953.

- Calcium Metabolism, Mass. Inst. of Tech. Radioactivity Center, AECU-3261, pp. 20-35, 1956.
- Calcium Metabolism in Animals. I. Absorption and Internal Distribution, Univ. of Tenn. Agricultural Research Program, Progress Report, ORO-150, pp. 58-75, 1956.
- Cancino Serna, L. A., Generalidades Acerca de la Autorradiografia, Revista de Sanidad Militar 8: 326-8, 1956.
- Camny, M. J., High Resolution Autoradiography of Water-Soluble Substances, Nature 175: 857-8, 1955.
- Casarett, L. J., Autoradiographic Study of Effects of Route of Administration on Distribution of Polonium-210, U. of Rochester A. E. Project No. 447, pp. 1-21, 1956.
- Casarett, L. J., and J. N. Stannard, Further Evidence for a Role of the R-E System in the Distribution of Po^{210} in Rat Tissues, J. Pharmacol. Exp. Therap. 113: 9-10, 1955. Abstract.
- Cember, H., T. F. Hatch, J. A. Watson, and T. B. Grucchi, Pulmonary Penetration of Particles Administered by Intratracheal Insufflation, A.M.A. Arch. Ind. Hyg. 10: 124-29, 1954.
- Chapman-Andresen, C., Thin Films for Application between Emulsion and Isotope-containing Specimen in Autoradiography, Compt. Rend. Trav. Lab. Carlsberg 28(22-23): 499, 528, 1953.
- Chapman-Andresen, C., and H. Holter, Studies on the Ingestion of ^{14}C Glucose by Pinocytosis in the Amoeba Chaos Chaos, Exp. Cell. Research, Supp. 3, 52-63, 1955.
- Chavin, W., Thyroid Distribution and Function in the Goldfish, Carassius Auratus L., J. Exp. Zool. 133: 259-79, 1956.
- Chevallier, A., and C. Burg, The Use of Colloidal Chromium Radiophosphate in the Treatment of Malignant Tumors, Proceedings of the International Conference on the Peaceful Uses of Atomic Energy, Vol. 10, United Nations, N. Y., 1956.
- Christopherson, W. M., and H. F. Berg, A Histopathological Study of Lymph Nodes Irradiated with Colloidal Au^{198} , Cancer 8: 1261-69, 1955.
- Christopherson, W. M., H. F. Berg, G. C. Kyker, and M. Brucer, Studies of Interstitial Radiolutetium (Lu^{177}) in the Dog, A.M.A. Arch. Pathol. 62: 441-44, 1956.
- Christopherson, W. M., G. C. Kyker, H. F. Berg, and M. Brucer, Effect of Specific Activity on Distribution of Radiolutetium (Lu^{177}), Proc. Soc. Exptl. Biol. and Med. 95: 750-54, 1957.
- Clark, D. E., and J. H. Rule, The Role of Radioactive Iodine in the Treatment of Thyrotoxicosis and Carcinoma of the Thyroid, Proceedings of the International Conference on the Peaceful Uses of Atomic Energy, Vol. 10, United Nations, New York, pp. 161-70, 1956.

- Clayton, R. M., and M. Feldman, Detection of Antigens in the Embryo by Labelled Antisera, *Experientia* 11: 29-31, 1955.
- Clode, W., A. M. Baptista, V. H. Franco, and M. A. Santos, Nota Sobre uma Posível Polaridade de Foliculo Tiroideo; Estudo Autoradiográfico com ^{131}I , *Medicina contemporanea* 74(9), 431-40, 1956.*
- Clowes, F. A. L., Nucleic Acids in Root Apical Meristems of *Zea*, *New Phytol.* 55: 29-34, 1956.
- Clowes, F. A. L., Localization of Nucleic Acid Synthesis in Root Meristems, *J. Exp. Bot.* 7: 307-312, 1956.
- Coe, G. E., Distribution of Carbon ^{14}C in Ovules of *Zephyranthes Drummondii*, *Botanical Gazette* 115: 342-46, 1954.
- Cohen, J., C. J. Maletskos, J. H. Marshall, and J. B. Williams, Radioactive Calcium Tracer Studies in Bone Grafts, *Am. J. Bone and Joint Surg.* 39A(1): 561-77, 1957.
- Comar, C. L., *Radioisotopes in Biology and Agriculture*, McGraw-Hill, N. Y., pp. 324-59, 1955.
- Comar, C. L., Radiocalcium Studies in Pregnancy, *Ann. N. Y. Acad. Sci.* 64(3): 281-98, 1956.
- Cormack, D. V., The beta-ray Sensitivity of Autoradiographic Stripping Film, *Br. J. Radiol.* 28(332): 450-2, 1955.
- Crawford, W. H., Fluid Penetration between Fillings and Teeth using Ca^{45} , *J. Dental Research* 33(5): 694-5, 1954.
- Crawford, W. H., and J. H. Larson, Fluid Penetration between Fillings and Teeth using Ca^{45} , *J. Dental Research* 35: 518-22, 1956.
- Crevier, M., and L. F. Belanger, Démonstration par Électrophorèse et Autoradiographie D'une Sulfomucoprotéine Synthétisée à L'Aide de Radiosulfate par le Glande Gastrique du Rat, *Comp. Rend. Soc. Biol.* 148: 1530-4, 1954.
- Cristiansson, J., and E. Palm, The Exchange of Substances in the Anterior Part of the Vitreous Body, Bordering upon the Lens; Experiments with Radioactive Phosphate, *Acta Ophthalmol.* 32(3): 197-212, 1954.
- Cuer, P., Recent Progress in our Knowledge of Nuclear Track Photography, *Sci. and Inds. Phot.* 28(2): 185-90, 1957.*

- Curran, R. C., and T. Gibson, The Uptake of Labelled Sulphate by Human Cartilage Cells and its use as a Test for Viability, Proc. Roy. Soc. London, B., 114: 572-76, 1956.
- Curran, R. C., and J. S. Kennedy, Utilization of Sulfate Ion by Fibroblasts in the Quartz Focus, Nature 175(4453): 435-6, 1955.
- Curran, R. C., and J. S. Kennedy, The Distribution of the Sulphated Mucopolysaccharides in the Mouse, J. Path. Bact. 70: 449-57, 1955.
- Dallemagne, M. J., Étude Critique de la Méthode Autoradiographique Appliquée au Squelette "in vitro", Arch. Intern. Physiol. 66: 84-5, 1958.
- Dankmeijer, J., and R. Spruit, Radioautographie, Nederlandsch Tijdschrift voor geneeskunde 97(36): 2370-2, 1953.
- Daoust, R., Localization of Deoxyribonuclease in Tissue Sections, Exp. Cell Research 12: 203-11, 1957.
- Davenport, A. N., and G. W. W. Stevens, Use of X-ray Film for Comparing Radioactivities, Nature 174: 178-9, 1954.
- Davies, D. V., and L. Young, Radioautographic Studies of the Digestive Tracts of Rats injected with Inorganic Sulfate Labelled with Sulfur-35, Nature 173: 448-49, 1954.
- Davies, D. V., and L. Young, The Distribution of Radioactive Sulfur (35S) in the Fibrous Tissues, Cartilages, and Bones of the Rat following its Administration in the Form of Inorganic Sulphate, J. Anat. 88(2): 174-83, 1954.
- Dent, J. N., and C. W. Sheppard, The Distribution of Lithium in Amphibian Gastrulae Autoradiographically Demonstrated, J. Exp. Zool. 135: 587-97, 1957.
- DiMarco, A., Evaluation of Antineoplastic Activity of Pyrimidine Analogues by Autoradiographic Method, Acta; Unio Internationalis Contra Cancrum (Lourain) 13(3): 466-70, 1957.*
- DiMarco, A., M. Gaetani, A. Necco, F. Polvani, and R. Silvestrini, I. Indagini sul Metabolismo di Fosforo Nucleinico di Tumori da Trapiato - Inibizione da Tiopirimidine, Tumori 42: 651-63, 1956.
- Dissanaike, A. S., G. A. Dissanaike, W. J. Niles, and R. Surendranathan, Further Studies on Radioactive Mosquitoes and Filarial Larvae using Autoradiographic Technique, Exp. Parasitology 6(3): 261-270, 1957.
- Dobyns, B. M., Physiologic Concepts in the Diagnosis and Treatment of Graves' Disease, Am. J. Med. 20: 684-97, 1956.

- Dobyns, B. M., A. L. Vickery, F. Maloof, and E. M. Chapman, Functional and Histologic Effects of Therapeutic Doses of Radioactive Iodine on the Thyroid of Man, *J. Clin. Endocrinol.* 13: 548-67, 1953.
- Dockum, N. L., E. J. Coleman, and G. Vogt, Detection of Plutonium Contamination in Humans by the Autoradiographic Method, Hanford Atomic Products Operation No. 51754, 1-13, 1957.*
- Dockum, N. L., and J. W. Healy, Spot Diameter Method of Quantitative Autoradiography of Ruthenium-106 Particles in Lung Tissues, *Stain Tech.* 32: 209-213, 1957.
- Domingues, F. J., A. Sarko, and R. R. Baldwin, A Simplified Method for Quantitation of Autoradiography, *Internat. J. of Appl. Radiation* 1(1-2): 94-101, 1956.
- Donato, L., S. Panichi, and U. Della Maggio, Tecnica ed Impiego Clinico del Radiotireogramma (radiothyreogram), *Minerva Medica (Torino)* 46(50): 1843-6, 1955.*
- Doniac, I., A. Howard, and S. R. Pelc, "Autoradiography", pp. 1-26, in *Progress in Biophysics*, Vol. 3, Ed. by J. A. V. Butler, and J. T. Randall, Academic Press, New York, 1953.
- Doniach, I., and J. H. Logothetopoulos, Radioautography of Inorganic Iodide in the Thyroid, *J. Endocrinol.* 13(1): 65-9, 1955.
- Dow, P. R., and J. I. Angle, Isotope Determination of Root Canal Failure, *Oral Surg., Oral Med., and Oral Pathol.* 8(10): 1100-04, 1955.
- Drenckhahn, F. O., and J. Meissner, Autoradiographische Untersuchungen uber die Lokalisation von $\text{Na}_2^{35}\text{SO}_4$ in der Meerschweincheniere, *Arch. Exp. Pathol.* 227(5): 444-55, 1956.
- Drexel, H., and K. Dirnagel, Autoradiographische Studien zur Sulfatresorption durch die Haut, *Archiv fur Physikalische Therapie* 8(1): 34-7, 1956.*
- Dudley, R. L. and S. R. Pelc, Automatic Grain Counter for Assessing Quantitatively High-Resolution Autoradiographs, *Nature* 172: 992-3, 1953.
- Dugger, W. M. Jr., Autoradiography with Plant Tissue, *Botanical Review* 23: 351-87, 1957.
- Durbin, P. W., C. W. Asling, M. E. Johnston, and J. G. Hamilton, The Effect of Propyl Thiouracil on the Recovery of Rat Thyroid Gland from Irradiation with Astatine 211, *Anat. Record* 129: 17-37, 1957. Also University of California Radiation Laboratory Report No. 3606, 1957.

- Dute, H. L., R. E. Going, and M. Massler, Penetration of I^{131} around and into various filling Materials, *J. Dental Research* 37: 17, 1958. Abstract.
- Duthie, R. B., A Simple Method for cutting Sections from Undecalcified Bone for subsequent Autoradiography and Microscopy, *J. Pathol. and Bacteriol. (London)* 68(1): 296-7, 1954.
- Duthie, R. B., and A. N. Barker, An Autoradiographic Study of Mucopolysaccharide and Phosphate Complexes in Bone Growth and Repair, *Br. J. of Bone and Joint Surg.* 27-B(2): 304-23, 1955.
- Dziewiatkowski, D. D., Effect of Age on some Aspects of Sulfate Metabolism in the Rat, *J. Exp. Med.* 99: 283-98, 1954.
- Dziewiatkowski, D. D., Turnover of S-35 Sulfate in the Mucosa of the Gastrointestinal Tract of Rats as seen in Autoradiograms, *J. Biophys. Cytol.* 2(1): 29-32, 1956.
- Dziewiatkowski, D. D., F. Bronner, N. Di Ferrante and R. M. Archibald, Some Aspects of the Metabolism of Sulfate- S^{35} and Calcium-45 in the Metaphyses of Immature Rats, *J. Biophys. Cytol.* 3: 151-60, 1957.
- Editorial, Microradiography and Autoradiography, *Nature* 173: 387-8, 1954.
- Editorial, New Aids in Investigation: Microradiography, Autoradiography and X-ray Microscopy, *Med. J. Australia* 42, 1, (5): 146-7, 1955.
- Edwards, L. C., Nuclear Plate Coating Device for Autoradiography, *Rev. Sc. Instr.* 26: 515-6, 1955.
- Edwards, L. C., An Adhesive Transfer Method of Cutting and Mounting Thin Sections for Autoradiography, *Stain Tech.* 30: 163-8, 1955.
- Edwards, L. C. Autoradiography by Neutron Activation: The Cellular Distribution of Boron-10 in the Transplanted Mouse Brain Tumour, *Int. J. Appl. Radiation* 1(3): 184-90, 1956.
- Edwards, L. C., and K. N. Udupa, Autoradiographic Determination of S-35 in Tissues after Injection of Methionine-S-35 and Sodium Sulfate-S-35, *J. Biophys. Cytol.* 3(5): 757-66, 1957.
- Eisen, V. D., and F. T. C. Harris, Demonstration of Early Renal Uptake of Potassium-42 by an Autographic Method for Water-Soluble Isotopes of Short Half-life, *Nature* 180: 440-41, 1957.
- Ekholm, R., Nutrition of Articular Cartilage; A Radioautographic Study, *Acta Anat.* 24(3-4): 329-38, 1955.

- Engfeldt, B., Biophysical Studies on Bone Tissue. VI. Biophysical Studies on Bone Tissue from Osteogenic Sarcoma, *Cancer* 7(4) 815-25, 1954.
- Engfeldt, B., G. Bergman, and E. Hammerlund-Essler, Studies on Mineralized Dental Tissues. I. A Microradiographic and Autoradiographic Investigation of Teeth and Tooth Germs in Normal Dogs, *Exp. Cell Research* 7(2): 381-92, 1954.
- Engfeldt, E., R. Bjornstedt, C. J. Clemedson, and A. Engström, A Preliminary Study of the in vivo and in vitro Uptake of Sr⁹⁰ in Bone Tissue and the Osseous Localization of Radioactive Fission Products from Atomic Explosions, *Acta Orthopaed. Scand.* 24: 101-14, 1954.
- Engfeldt, B., A. Engström, and R. Zetterstrom, Renewal of Phosphate in Bone Minerals. II. Radioautographic Studies of the Renewal of Phosphate in Different Structures of Bone, *Biochim. Biophys. Acta* 8(4): 375-80, 1952.
- Engfeldt, B., A. Engström, and H. Boström, The Localization of Radiosulfate in Bone Tissue, *Exp. Cell. Research* 6: 251-3, 1954.
- Engfeldt, B., and S.-O. Hjertquist, Biophysical Studies on Bone Tissue. X. The in vivo and in vitro Uptake of Radioactive Isotopes and Ionic Exchange Reactions in Bone Tissue, *Acta Pathol. Microbiol. Scand.* 35: 205-16, 1954.
- Englund, S., B. Westin, and E. Odeblad, Autoradiographic Measurements on the Unfertilized Rabbit Ovum and Periovarial Granulosa Tissue, *Acta Obstet. Gynecol. Scand.* 35(3): 455-9, 1956.
- Eranko, O., Radioautographic Demonstration of Noradrenaline and Adrenaline in the Adrenal Medulla with I-131-labelled Iodate and Iodate-formalin, *J. Histochem. Cytochem.* 5: 408-13, 1957.
- Fang, S. C., and J. S. Butts, Studies of Carboxyl-C¹⁴-labeled 3-Indolacetic Acid in Plants, *Plant Physiol.* 32: 253-9, 1957.
- Feldman, M., and C. H. Waddington, The Uptake of Methionine-S³⁵ by the Chick Embryo and its Inhibition by Ethionine, *J. Embryol. Exp. Morph.* 3: 44-58, 1955.
- Fell, H. B., Sir E. Mellanby, and S. R. Pelc, Influence of Excess Vitamin A on the Sulphate Metabolism of Chick Ectoderm grown in vitro, *Br. Med. J.* 2: 611, 1954.
- Fellinger, K., and H. Vetter, Radiogold-Therapie der Leukämischen Erkrankungen, *Strahlentherapie, Supp.* 33: 175-82, 1955.
- Ficq, A., Analyse de L'induction Neurale par Autoradiographie, *Experientia* 10(1): 20-1, 1954.

- Ficq, A., Analyse de L'induction Neurale chez les Amphibiens au Moyen D'organismes Marqués, *J. Embryol. Exp. Morph.* 2: 194-203, 1954.
- Ficq, A., Localisation et Dosage du Lithium dans les Embryons D'amphibiens, *J. Embryol. Exp. Morph.* 2: 204-15, 1954.
- Ficq, A., Étude Autoradiographique du Métabolisme de L'ocyte D'Asterias Rubens au Cours de la Croissance, *Arch. Biol. (Liege)* 66(3): 509-24, 1955.
- Ficq, A., Étude Autoradiographique du Métabolisme des Protéines et des Acides Nucléiques au Cours de L'oogenèse chez les Batraciens, *Exp. Cell. Research* 9: 286-93, 1955.
- Ficq, A., Incorporation de Phénylalanine-3-¹⁴C dans Fragments Nucléés et Anucléés D'amibes, *Arch. Intern. Physiol.* 64: 129-30, 1956. Abstract.
- Ficq, A., and J. Brachet, Distribution de L'acide Ribonucléique et Incorporation de la Phénylalanine-2-¹⁴C dans les Protéines, *Exp. Cell. Research* 11(1): 135-145, 1956.
- Ficq, A., and M. Errera, Étude Autoradiographique de L'Incorporation dans le foie de Souris de Précurseurs des Acides Nucléiques et des Protéines, *Arch. Intern. Physiol. (Paris)* 62(3): 563, 1954. Abstract.
- Ficq, A., and M. Errera, Étude Autoradiographique de L'Incorporation dans le foie de Souris de Précurseurs des Acides Nucléiques et des Proteines, *Biochim. Biophys. Acta* 16(1): 45-50, 1955.
- Ficq, A., and M. Errera, Action de la Ribonucléase sur les Oocytes D'Asterias, *Arch. Intern. Physiol.* 63: 259-60, 1955. Abstract.
- Ficq, A., and M. Errera, Incorporation de Phénylalanine-2-¹⁴C dans les Noyaux Isolés, *Arch. Intern. Physiol.* 64: 533-4, 1956. Abstract.
- Ficq, A., and M. Errera, Analyse Autoradiographique de L'Incorporation de la Phénylalanine-2-¹⁴C dans les Noyaux Isolés, *Exp. Cell. Research* 14: 182-92, 1958.
- Ficq, A., and C. Pavan, Autoradiography of Polytene Chromosomes of Rhynchosciara Angelae at Different Stages of Larval Development, *Nature* 180: 983-4, 1957.
- Firket, H., Recherches sur la Synthèse des Acides Désoxyribonucléiques et la Préparation à la Mitose dans des Cellules Cultivées "in vitro." (Étude Cytophotométrique et Autoradiographique.) *Arch. Biol. (Liege)* 69: 1-166, 1958.

- Firket, H., and W. G. Verly, Autoradiographic Visualization of Synthesis of Deoxyribonucleic Acid in Tissue Culture with Tritium-labelled Thymidine, *Nature* 181: 274-5, 1958.
- Fisher, F. J. J., Plastochron Determination in Ranunculus using Carbon-14 Dioxide, *Nature* 178: 300-01, 1956.
- Fitzgerald, P. J., Radioautography in Cytology, *Tex. Repts. Biol. and Med.* 11(4): 671-7, 1953.
- Fitzgerald, P. J., I-131 Concentration and Thyroid Morphology, *The Thyroid, Brookhaven Symposium in Biology No. 7*, 220-49, 1955.
- Fitzgerald, P. J., Radioautography, its use in Cytology, *Analytical Cytology*, Ed. by R. C. Mellors, Blakiston, N. Y., Ch. 7, pp. 1-47, 1955.
- Fitzgerald, P. J., L. Hellman, J. Weinstein, and R. Schimmel, The Concentration, Distribution, and Excretion of Radio-Ethionine (S35) in the Rat on Stock and Protein-Depleted Diets-Determined by Radioactivity Counting and Radioautography, *Am. J. Path.* 30: 619-20, 1954. Abstract.
- Fitzgerald, P. J., J. Weinstein, R. Batchelder, and M. Alvizouri, Radioautographic Studies of Methionine (C14), Methionine (S35) and Ethionine (S35) Distribution in the Rat, *J. Histochem. Cytochem.* 2: 463-65, 1954. Abstract.
- Fitzpatrick, T. B., and A. Kukita, A Histochemical Autoradiographic Method for Demonstration of Tyrosine in Human Melanocytes, Nevi, and Malignant Melanoma, *J. Invest. Derm.* 26: 173-83, 1956.
- Flanigan, S., E. R. Gabrieli, and P. D. MacLean, Cerebral Changes Revealed by Radioautography with S35 labeled L-Methionine, *A.M.A. Arch. Neurol. Psychia.* 77(6): 588-594, 1957.
- Fleischmajer, R., and V. H. Witten, Studies of Thorium Applied to Human Skin. IV. Clinical and Autoradiographic Findings following the Introduction by Iontophoresis, *J. Invest. Derm.* 25(4): 223-32, 1955.
- Forbes, J. A., A Study of Nodular Goitre using Radioautography as the main method of Examination, *Australian Ann. Med.* 3(2): 138-45, 1954.*
- Forni, P. V., Citoautoradiografia della Candida Albicans con P³² e con Ca⁴⁵, *Boll. Soc. Ital. Biol. Sper.* 33(3): 311-13, 1957.
- Freuden Berg, K., H. Reznik, W. Fuchs, and M. Reichert, Untersuchungen Über die Entstehung des Lignins und des Holzes, *Naturwiss.* 42: 29-35, 1955.

- Friberg, U., and N. R. Ringertz, Jr., Autoradiographic Studies with S^{35} on the Development of the Rat Embryo, *Experientia* 10: 67-8, 1954.
- Friberg, U., and N. R. Ringertz, An Autoradiographic Study on the Uptake of Radiosulphate in the Rat Embryo, *J. Embryol. Exp. Morph.* 4: 313-25, 1956.
- Fries, B., and G. Walinder, Absorption of Colloidal Au¹⁹⁸ from Peritoneum and Pleura, and its inhibition by Polyphlorethin Phosphate, *Acta Radiol.* 48: 113-121, 1957.
- Fruhling, L., C. M. Gros, and A. Batzenschlager, Sarcome Endothelial Angioplastique Générale chez un Malade Ayant Subi iz ans Auparavant une Injection Intra-Artérielle et Para-Artérielle de Thorotrast, *Bull. Assoc. Franc. Etude Cancer* 42: 559-63, 1955.
- Gabrieli, E. R., and A. A. Auskaps, The Effect of Whole Body X-irradiation on the Reticulo-Endothelial System as Demonstrated by the use of Radioactive Chromium Phosphate, *Yale J. Biol. and Med.* 26: 159-69, 1954.
- Gabrieli, E. R., and J. L. Cutler, Beta Irradiation Effects on Reticulo-Endothelial System following Intravenous Injection of Radioactive Chromium Phosphate, *Proc. Soc. Exptl. Biol. and Med.* 87: 661-65, 1954.
- Gabrieli, E. R., D. Goulian, Jr., and J. L. Cutler, Hepatic Radioautography following Intravenous Injection of Radioactive Chromium Phosphate as a further Contribution to Reticulo-Endothelial Functional Tests, *Yale J. Biol. and Med.* 28(1): 63-71, 1955 and 1956.
- Gallimore, J. C., E. C. Bauer, and G. A. Boyd, A Non-leaching Technic for Autoradiography, *Stain Tech.* 29(2): 95-8, 1954.
- Gallimore, J. C., Jr., G. A. Boyd, G. A. Andrews, and M. Brucer, A Study of Gallium IX. Autoradiographic Studies, *Radiol.* 61(4): 595-602, 1953.
- Gallimore, J. C., G. A. Boyd, and J. N. Stannard, An Autoradiographic Study of the Distribution of Polonium in the Rat during 24 Hours after Intravenous Injection, *Anat. Record* 118(2): 253-74, 1954.
- Gavosto, F., and A. Ficq, Étude Autoradiographique sur la Localisation Cellulaire du Virus de la Mosaique du Tabac, Utilisé comme Antigène, *Ann. Inst. Pasteur* 86(3): 320-33, 1954.
- Gavosto, F., and A. Ficq, Étude Autoradiographique de L'Incorporation de la Glycine-1- ^{14}C , lors de la Synthèse des Anticorps, *Ann. Inst. Pasteur.* 86(4): 425-37, 1954.

- Gavosto, F., A. Ficq, and M. Errera, Incorporation in vivo de Glycine-1-¹⁴C dans les Cellules Individuelles de la Moelle Osseuse, *Exp. Cell. Research* 6: 238-9, 1954.
- Gavosto, F., and R. Rechenman, In vitro Incorporation of Glycine-1-¹⁴C in Reticulocytes, *Biochim. Biophys. Acta* 13(4): 583-6, 1954.
- George, L. A., Jr., N. L. Dockum, and L. K. Bustad, Removal of Plutonium from Pig Skin, Hanford Works, Report No. HW-47500, pp. 146-56, 1957.
- Glick, D., A Critical Survey of Current Approaches in Quantitative Histo- and Cytochemistry, pp. 468-9 in particular, In *International Review of Cytology*, Vol. II, Ed. by G. H. Bourne and J. F. Danielli, Academic Press, New York, 1953.
- Glucksmann, A., A. Howard, and S. R. Pelc, Incorporation of ³⁵S-DL-Methionine in Mouse Tissues as Indicated by Autoradiographs. I. Testis, Epididymis, and Seminal Vesicle, *J. Anat.* 89(1): 13-18, 1955.
- Gonzalez, Rincones R., Autografia con ³⁵S, *Gaceta Médica de Caracas* 62(11-12): 709-13, 1954*
- Gothie, S., La Réponse Folliculaire Et/Ovulaire Emploi des Traceurs dans L'Etude de la Gonadotrophine Chorale, *Ann. Endocrinol.* 15: 579-84, 1954.
- Granul, E. H., Aktuelle Probleme der Angewandten Radioisotopie, *Arch. Phys. Ther.* 4: 68-128, 1956.*
- Greulich, R. C., An Autoradiographic Study of Organically Bound Carbon-¹⁴ in Growing Epiphyseal Cartilage and Bone, *Am. J. Bone and Joint Surg.* 38-A: 611-26, 1956.
- Greulich, R. C., and U. Friberg, Histochemical Studies of Sulfo-Mucopolysaccharides in the Organic Matrices of Mineralized Tissues, *Exp. Cell. Research* 12: 685-89, 1957.
- Greulich, R. C., and C. P. Leblond, Radioautographic Visualization of the Formation and Fate of the Organic Matrix of Dentin, *J. Dental Research* 33(6): 859-72, 1954.
- Gros, C. M., P. Cueur, and C. Gegauff, Sur Quelques possibilités de la Methode des Traceurs Histophotographiques, *Comp. Rend. Soc. Biol.* 147(13-14): 1298-1301, 1953.
- Gros, C. M., and A. Knobloch, Mise en Évidence des Traces Alpha dans Certaines Préparations Histologiques, *Bull. Assoc. Franc. Etude Cancer (Paris)* 41(2): 316-7, 1954.

- Gross, J. D., Incorporation of Phosphorus-32 into Salivary-type Chromosomes which exhibit "Puffs". *Nature* 180: 440, 1957.
- Gude, W. D., Controlled Humidity of Autoradiographic Stripping Film during Storage, *Stain Tech.* 32(4): 197-8, 1957.
- Gude, W. D., A. C. Upton, and T. T. Odell, Jr., Giemsa staining of Autoradiograms prepared with Stripping Film, *Stain Tech.* 30: 161-2, 1955.
- Guidotti, G., Sulla Tecnica della "inverted autoradiography", *Rivista di Istochimica* 1: 471-76, 1955.
- Guidotti, G., Quantitative Autoradiography of Isolated Thyroid-Gland Colloid, *Stain Tech.* 31: 7-11, 1956.
- Guidotti, G., Autoradiographic Evidence of Radiosulfate uptake by Thyroid Gland of Rat, *Exp. Cell. Research* 10(2): 544-5, 1956.
- Guidotti, G., Turnover of the Sulphate Groups in Mast Cells of Young and Adult Rats, *Exp. Cell. Research* 12: 659-61, 1957.
- Guidotti, G., and F. Passalacqua, On the Preparation of Specimens for Autoradiography, *Experientia* 12(3): 117-8, 1956.
- Guidotti, G., and R. L. Setti, Autoradiography of Tracks from Beta-particle Emitters in Tissues, *Stain Tech.* 31(2): 57-65, 1956.
- Gustafson, F. G., and M. J. Schlessinger, Jr., Absorption of Cobalt⁶⁰ by Leaves of Bean Plants in the Dark, *Plant Physiol.* 31: 316-8, 1956.
- Gyllensten, L., and N. R. Ringertz, Uptake of Radiophosphate in Thyroid and Lymphatic Tissue of Young Guinea Pigs after Subtotal Thymectomy, *Acta Pathol. Microbiol. Scand.* 35: 309-20, 1954.
- Gyllensten, L., N. Ringertz, and N. R. Ringertz, The Uptake of Labelled Phosphate in Lymph Nodes during Experimental Lymphadenitis in Relation to the Morphological Picture, *Acta Pathol. Microbiol. Scand.* 38: 81-95, 1956.
- Hagmuller, K., and H. Hellauer, Kritische Untersuchung Histologischer Arbeitsgange zur Autoradiographie mit ¹³¹I, *Acta Histochem.* 2: 16-24, 1955.
- Hahn, P. F., Therapeutic Use of Artificial Radioisotopes, J. Wiley and Sons, N. Y., pp. 1-414, 1956.
- Hamilton, J. G., P. W. Durbin, and M. Parrott, The Accumulation and Destructive Action of Astatine-211 (eka-iodine) in the Thyroid Gland of Rats and Monkeys, *J. Clin. Endocrinol.* 14: 1161-78, 1954.
- Hansard, S. L., C. L. Comar, and G. K. Davis, Effects of Age upon the Physiological Behavior of Calcium in Cattle, *Am. J. Physiol.* 177: 383-89, 1954.

- Harbers, E., and K. Neumann, Grundlagen der Autoradiographischen Darstellung der Nucleinsäuren in Gewebsschnitten mit Hilfe von Radio-Phosphor, Zschr. für Naturforsch. 9B: 175-80, 1954.
- Harbers, E., and K. Neumann, Autoradiographie als Histochemische Methodik, Klin. Wochsch. (Berlin) 32(15-16): 337-42, 1954.
- Harbers, E., and R. Backman, Autoradiographische Darstellung von Phospho-Proteinen in Gewebsschnitten mit Hilfe von Radiophosphor, Zschr. für Naturforsch. 10B: 385-388, 1955.
- Harel, J., M. Guerin, M. Tubiana, and J. Abbatiucci, Effets sur le Parenchyme Hépatique du Rat des Injections Intraperitoneales D'or Colloidal Radio-actif (Au¹⁹⁸), Obtention de Cholangiomes, Bull. Assoc. Franc. Etude Cancer 42: 441-62, 1955.
- Harkness, D. R., and H. A. Bern, Radioautographic Studies of Hair Growth in the Mouse, Acta Anat. 31: 35-45, 1957.
- Harris, N. O., and R. L. Hayes, A Tracer Study of the Effect of Acute and Chronic Exposure to Sodium Fluoride on the Thyroid Metabolism of Rats, J. Dental Research 34: 470, 1955.
- Heatley, N. G., D. W. Jerrome, M. A. Jennings, and H. W. Florey, On the Fixation of Mucin and the Preparation of Autoradiographs, Quart. J. Exp. Physiol. 41: 124-30, 1956.
- Hevesy, G., Les Isotopes comme Indicateurs dans la Recherche Physiologique, Documenta Rheumatologica Geigy, No. 6, pp. 5-63, 1955.
- Hidalgo, J. U., E. Burns, and R. T. Nieset, A Technique for Evaluating the Effectiveness of Localization of Radioactive Colloidal Gold-198 after Direct Injection into Tumors, Am. J. Roentgenol. 72: 658-60, 1954.
- Hodges, R. E., T. C. Evans, J. T. Bradbury, and W. C. Keettel, The Accumulation of Radioactive Iodine by Human Fetal Thyroids, J. Clin. Endocrinol. and Metabolism 15: 661-67, 1955.
- Hofmann, E., and A. Suss, Über die Aufnahme von Radioactiven Schwefel (S³⁵) bei Einigen Kulturpflanzen, Naturwiss. 41: 506, 1954.
- Hoffman, P. F., and B. M. Zuckerman, Oak Wilt Fungus labelled with C-14, Science 120(3107): 106-8, 1954.
- Holma, B., and A. Nelson, Location and Duration of Retention of Radioactive Particles in Mice, Acta Radiol. 49: 145-53, 1958.

- Holmstrand, K., Biophysical Investigations of Bone Transplants, Plastic and Reconstructive Surg. 19: 265, 1957.
- Holzner, H., Anatomische Befunde bei einem Fall von Ovarical-carcinom nach Intraperitonealer Applikation von Kolloidalem Radioactivem Gold (Au-198), Beitrage zur Path. Anat. 114(2): 315-22, 1954.
- Hornsey, S., and A. Howard, Autoradiograph Studies with Mouse Ehrlich Ascites Tumor, Ann. N. Y. Acad. Sciences 63(5): 915-28, 1956.
- Hultborn, K. A., and L. I. Jonsson, The Use of Colloidal Au¹⁹⁸ for the Detection of Lymph Nodes in Radical Excision of the Breast, Acta Radiol. 43: 132-138, 1955.
- Hultborn, K. A., L.-G. Larsson, and I. Ragnhult, The Lymph Drainage from the Breast to the Axillary and Parasternal Lymph Nodes, Studied with the Aid of Colloidal Au¹⁹⁸, Acta Radiol. 43(1): 52-64, 1955.
- Hunzinger, W. A., and G. A. Ortelli, Retention und Austausch von Calcium aus Ca⁴⁵ Dinatrium-Aethylendiamin-Tetra Acetat, Strahlentherapie, Suppl. 36: 76-84, 1956.
- Hurwitz, J. K., Emulsion Calibration for Quantitative Autoradiography, Rev. Sci. Instr. 26: 518-9, 1955.
- Indovina, I., and M. M. Addario Indovina, Tecniche Autoradiografiche ad alto potere Risolutivo, Boll. Soc. Ital. Biol. Sper. 29(5): 973-5, 1953.
- Jarabak, J. R., M. M. Kamins, and K. L. Vehe, Radioautographic Study of the Deposition of Calcium-⁴⁵ in the Cranium, Teeth, and Mandible, J. Am. Dental Assoc. 47(6): 639-48, 1953.
- Jasinski, B., and G. E. Stiefel, Das Schicksal und die Verwertung Intravenös Verabreichten Kolloidalen Eisens, Schweiz. Med. Wochschr. 84(33): 947-50, 1954.
- Jee, W. S. S., and J. S. Arnold, Microradiographic Studies of Cortical Bone of Chronic Toxicity Dogs, Univ. of Utah School of Medicine Progress Report, Sept. 30, pp. 56-61, 1957.
- Jee, W. S. S., C. R. Mott, J. S. Arnold, and R. Mical, The Failure of Plutonium to Deposit in the Osteoid of Rachitic Rats, Univ. of Utah School of Medicine Progress Report, Sept. 30, pp. 62-67, 1957.
- Jennings, M. A., and H. W. Florey, Autoradiographic Observations on the Mucous Cells of the Stomach and Intestine, Quart. J. Exp. Physiol. 41: 131-152, 1956.

- Jensen, W. A., The Incorporation of C^{14} -Adenine and C^{14} -Phenylalanine by developing Root-Tip Cells, Proc. Nat. Acad. Sci. 43: 1038-46, 1957.
- Joftes, D. L., and S. Warren, Simplified Liquid Emulsion Radioautography, J. Biol. Photographic Assoc. 23(4): 145-50, 1955.
- Johnston, P. M., Autoradiographic Studies of the Utilization of Ca^{45} by the Chick Embryo, J. Biophys. Cytol. 4: 163-9, 1958.
- Johnston, P. M., and C. L. Comar, Autoradiographic Studies of the Utilization of S-35-Sulfate by the Chick Embryo, J. Biophys. Cytol. 3: 231-8, 1957.
- Jowsey, J., The use of the Milling Machine for Preparing Bone Sections for Microradiography and Microautoradiography, J. Sci. Instr. 32: 159-63, 1955.
- Jowsey, J., M. Owen, and J. Vaughan, Microradiographs and Autoradiographs of Cortical Bone from Monkeys Injected with 90-Sr, Brit. J. Exp. Pathol. 34(6): 661-7, 1953.
- Jowsey, J., M. Owen, M. Tuft, and J. Vaughan, Retention and Excretion of ^{90}Sr by Adult Rabbits, Br. J. Exp. Pathol. 36: 22-26, 1955.
- Jowsey, J., H. A. Sissons, and J. Vaughan, The Site of Deposition of Y-91 in the Bones of Rabbits and Dogs, J. Nuclear Energy 2: 168-76, 1956.
- Kallee, E., and G. Seybold, Über ^{131}I -Signiertes Insulin III, Ztschr. für Naturforsch. 9B: 307-319, 1954.
- Kaminski, E. J., Histological Processing in Autoradiography: Loss of Radioactivity, Stain Tech. 30: 139-45, 1955.
- Kawin, B., N. L. Dockum, and R. F. Palmer, Distribution and Excretion of Plutonium, Hanford Works, Report No. HW-47500, pp. 30-35, 1957.
- Kellershohn, C., and P. Pellerin, Sur la Mise en Evidence par une Methode Photographique Externe de la Localisation et de la Distribution d'un corps Radioactif dans un Organisme, Comp. rend. Soc. Biol. 148(13-14): 1194-5, 1954.
- Kemp, N. E., Incorporation of Radioactive Glycine into Proteins of Frog Oocytes, Science 121: 471-2, 1955.
- Kemp, N. E., Localization of Glycine-2- C^{14} Injected into Adult Female Frogs, J. Exp. Zool. 133: 227-39, 1956.

- Kent, P. W., J. Jowsey, L. M. Steddon, R. Oliver, and J. Vaughan, The Deposition of ^{35}S in Cortical Bone, *Biochem. J.* 62: 470-76, 1956.
- Kiehn, C. L., J. W. Blunt, and J. D. Desprez, The Significance of Radio-phosphorus Uptake by the Metastatic Head and Neck Neoplastic Cell, *Plastic and Reconstructive Surg.* 19: 114-20, 1957.
- Kiehn, C. L., Gutentag, J., and D. M. Glover, Localization of Isotopes in Bone Grafts by Autoradiography, *Plastic and Reconstructive Surg.* 14(6): 425-30, 1954.
- Kinersly, T., Beta-track Autoradiographic Study of Teeth with Ca-45, *Yale J. Biol. and Med.* 27(2): 114-8, 1954.
- Knutson, F., and T. Norin, Localization and Effect of Injected Radioactive Gold (Au^{198}) in the Treatment of Malignant Tumors. II. *Acta Pathol. Microbiol. Scand.* 38: 447-65, 1956.
- Kodicek, E., and J. Loewi, The Uptake of (^{35}S) Sulfate by Mucopolysaccharides of Granulation Tissue, *Proc. Roy. Soc. London, B*, 144: 100-115, 1955.
- Kolousek, J., J. Fischer, and Z. Todin, Eine Histoautoradiographische Methode mit einer Zugänglichen Emulsion, *Acta Histochem.* 3(7-8): 328-33, 1957.
- Kottmeier, H.-L., and G. Moberger, Experience with Radioactive Colloidal Gold as an Additional Treatment in the Radiotherapy of Uterine Cancer, *Acta Obstet. et Gynecol. Scand.* 34: 1-29, 1955.
- Krakusin, J. S., and R. B. Jennings, Radioautographic Localization of Na-22 in the Rat Kidney, *A.M.A. Arch. Pathol.* 59(4): 471-86, 1955.
- Kraus, L. M., and D. B. Morrison, *In vitro* Incorporation of Iron-59 into Hemoglobin S Visualized by Autoradiography, *Proc. Soc. Exptl. Biol. and Med.* 89(4): 598-602, 1955.
- Kukita, A., and T. B. Fitzpatrick, Demonstration of Tyrosinase in Melanocytes of the Human Hair Matrix by Autoradiography, *Science* 121: 893-4, 1955.
- Kumamoto, Y., and C. P. Leblond, Radioautographic Study of Mineralization of Growing Teeth with Labeled Calcium, *J. of Dental Research* 35(1): 147-156, 1956.

- Kumamoto, Y., and C. P. Leblond, Visualization of C^{14} in the Tooth Matrix after Administration of Labeled Hexoses, *J. Dental Research* 37: 147-161, 1958.
- Kuntz, H., and O. Biddulph, Factors affecting Absorption and Translocation of Foliar applied Phosphorus, *Plant Physiol.* 32: 463-70, 1957.
- Kurnick, N. B., Histochemistry of Nucleic Acids, *International Review of Cytology*, Vol. 4, Ed. by G. H. Bourne and J. F. Danielli, Academic Press, p. 260, 1955.
- Kyker, G. C., W. M. Cristopherson, H. F. Berg, and M. Brucer, Selective Irradiation of Lymph Nodes by Radiolutecium (Lu^{177}), *Cancer* 9: 489-98, 1956.
- Lacroix, P., Radiocalcium and Radiosulphur in the Study of Bone Metabolism at the Histological Level, *Proceedings of Second Radioisotope Conference*, Vol. I. Ed. by J. E. Johnston, Academic Press, New York, pp. 134-37, 1954.
- Lacroix, P., and R. Ponlot, The Delayed Redistribution of Radiocalcium in the Skeleton, *United Nations Conference, UNESCO/NS/RIC/82*, 1957.
- Lajtha, L. G., High Resolution Autoradiography: Isotope Uptake of Individual Cells, *J. Phot. Science* 2: 130-34, 1954.
- Lajtha, L. G., Detection of Adenine Carbon-14 in Deoxyribonucleic Acid by Autoradiography, *Nature* 173(4404): 587-8, 1954.
- Lajtha, L. G., Utilization of Formate- ^{14}C for Synthesis of Deoxyribonucleic Acid by Human Bone Marrow Cells *in vitro*, *Nature* 174: 1013-4, 1954.
- Lajtha, L. G., R. Oliver, and F. Ellis, Incorporation of ^{32}P and Adenine ^{14}C into DNA by Human Bone Marrow Cells *in vitro*, *Br. J. Cancer* 8: 367-79, 1954.
- Lajtha, L. G., R. Oliver and F. Ellis, DNA Synthesis in Bone Marrow Studied by Autoradiography, *Radiobiology Symposium*, Ed. by Z. M. Bacq and P. Alexander, Butterworths Scientific Publications, pp. 216-9, 1955.
- Lamerton, L. F., E. H. Belcher and E. B. Harriss, "Experimental Studies in Normal and Irradiated Rats using Radioactive Iron", *Proceedings of Second Radioisotope Conference*, Vol. I. Ed. by J. E. Johnston, Academic Press, New York, pp. 210-18, 1954.
- Lamerton, L. F., and E. B. Harris, Resolution and Sensitivity Considerations in Autoradiography, *J. Phot. Science* 2: 135-44, 1954.
- Landau, B. R., and A. E. Renold, The Distribution of Alloxan in the Rat, *Diabetes* 3(1): 47-50, 1954.

- Lawendel, J., F. Passalacqua, and E. Servida, Ricerche Sperimentali nel Ratto Sulla Distribuzione della Caseina Jodurata Marcata con ^{131}I , *Biologica Latina* 8(1): 130-44, 1955.
- Lea, L., and J. Vaughan, The Uptake of S-35 in Cortical Bone, *Quart. J. Microscop. Sci.* 98: 369-75, 1957.
- Leblond, C. P., L. F. Belanger, and R. C. Greulich, Formation of Bones and Teeth as Visualized by Radioautography, *Ann. N. Y. Acad. Sci.* 60(5): 630-59, 1955.
- Leblond, C. P., N. B. Everett, and B. Simmons, Sites of Protein Synthesis as shown by Radioautography after Administration of S^{35} -labelled Methionine, *Am. J. Anat.* 101: 225-71, 1957.
- Leblond, C. P., and R. C. Greulich, Autoradiographic Studies of Bone Formation and Growth, *The Biochemistry and Physiology of Bone*, Ed. by G. H. Bourne, Academic Press, New York, pp. 325-58, 1956.
- Levene, M. B., G. A. Andrews, and R. M. Kniseley, Large Doses of I-131 in Dogs; Radiation Dosage Correlated with Histologic and Autoradiographic Changes, *Am. J. Roentgenol.* 73(1): 88-97, 1955.
- Levi, H., Quantitative B-track Autoradiography of Single Cells, *Exp. Cell Research* 7(1): 44-51, 1954.
- Levi, H., and A. S. Hogben, Quantitative B-track Autoradiography with Nuclear Track Emulsions, *Dan. Mat. Fyr. Medd.* 30: 1-23, 1955.*
- Levine, B., H. Hoffman, and S. O. Freedlander, Distribution and Effect of Colloidal Chromic Phosphate (P^{32}) Injected into the Hepatic Artery and Portal Vein of Dogs and Man, *Cancer* 10: 164-72, 1957.
- Levinthal, C., and C. A. Thomas, Jr., Molecular Autoradiography: The B-ray Counting from Single Virus Particles and DNA Molecules in Nuclear Emulsions, *Biochim. Biophys. Acta*, 24332, 23(3): 453-465, 1957.
- Lewin, R., H. E. Hart, J. Greenberg, H. Spencer, K. G. Stern, and D. Laszlo, Biological Studies on Stable and Radioactive Rare Earth Compounds. III. Distribution of Radioactive Yttrium in Normal and Ascites-Tumor-Bearing Mice and in Cancer Patients with Serous Effusions, *J. Nat. Cancer Inst.* 15: 131-43, 1954.
- Lewin, R., H. E. Hart, J. Greenberg, H. Spencer, K. G. Stern, and D. Laszlo, Distribution of Y^{90} in Ascites Tumor Mice following Intraperitoneal Administration of Yttrium Chloride, *Science* 119: 880-1, 1954.

- Lewin, R., H. E. Hart, J. Greenberg, H. Spencer, K. G. Stern, and D. Laszlo, Distribution of Yttrium-90 upon Systemic and Intracavitary Administration and its Modification by Chelating Agents, Proceedings of Second Radioisotope Conference, Vol. I., Ed. by J. E. Johnston, Academic Press, New York, pp. 125-33, 1954.
- Lewis, J. E., and R. C. Plumb, A Radiochemical Technique for Determining the Specific Area of Aluminum Metal Surfaces, Internat. J. of Appl. Radiation 1: 33-45, 1956.
- Lindenbaum, A., J. Schubert, and M. R. White, Studies on the Mechanism of Protection by Aurintricarboxylic Acid in Beryllium Poisoning V. Long-Term Distribution Studies with C¹⁴-labeled ATA, Arch. Biochem. 52: 143-50, 1954.
- Liquier-Milward, J., A Track-Radioautography Study of the Intracellular Localization of Cobalt in Neoplastic Tissues, Biochem. Biophys. Acta 14(4): 459-70, 1954.
- Liquier-Milward, J., Electron Microscopy and Radioautography as Coupled Techniques in Tracer Experiments, Nature 177(4509): 619, 1956.
- Ludwig, F., Sur L'emploi du Condensateur à Fond Noir pour la Microphotographie des Autoradiogrammes Biologiques, Internat. J. Appl. Radiation 3: 13-4, 1958.
- Luick, J. R., J. M. Boda, and M. Kleiber, Some Biokinetic Aspects of Calcium Metabolism in Dairy Cows, Am. J. Physiol. 189: 483-88, 1957.
- MacDonald, E., and C. T. Bahner, Hafnium Complexes for Biological Investigation, Proc. Soc. Exptl. Biol. and Med. 83(4): 801-4, 1953.
- Maclean, P. D., S. Flanigan, J. P. Flynn, C. Kim, and J. R. Stevens, Hippocampal Function: Tentative Correlations of Conditioning, EEG, Drug, and Radioautographic Studies, Yale J. Biol. and Med. 28(3-4): 380-95, 1956.
- Magnusson, G., I. Bergstrom, and E. Odeblad, Studies on the Uptake of Fe-59 in Rat Embryo, Placenta, Uterus, and Mammary Gland, Acta Radiol. 43(3): 227-32, 1955.
- Magnusson, G., and E. Odeblad, Apposition Technique with Stripping Film for Autoradiography, Exp. Cell Research 6(2): 525-6, 1954.
- Maloof, F., A. L. Vickery, and B. Rapp, An Evaluation of Various Factors Influencing the Treatment of Metastatic Thyroid Carcinoma with I¹³¹, J. Clin. Endocrinol. 16: 1-27, 1956.
- Mamul, Y. V., Quantitative Autoradiography using a Radioactive Wedge, Internat. J. Appl. Radiation 1(3): 178-83, 1956.

- Mancini, R. E., and E. S. De Lustig, Investigacion Autorradiografica de la Cappacion del Azufre Radiactivo (S-35) por el Tejido Connectivo, Rev. Soc. Argent. Biol. 30(1-2): 67-76, 1954.
- Mancini, C. N., C. Nunez, and E. S. Lustig, A Radiogautographic Study on the Specificity and Sequence of the Uptake of S³⁵ by the Mucopolysaccharides of the Embryonic and Adult Connective Tissues, J. Histochem. Cytochem. 4: 444-45, 1956. Abstract.
- Marshall, J. H., V. K. White, and J. Cohen, Autoradiography of Serial Cross-Sections of Undecalcified Bone, Internat. J. Appl. Radiation 1(3): 191-3, 1956.
- Mattsson, O., Reduction of Statis Disturbances in Dark Rooms, Acta Radiol. 45: 383-88, 1956.
- Maurer, W., Messungen der Unsatzrate von Plasma-und Korpereiweiss and Über Genetische Beziehungen Zwischen den Einzelnen Serumeiweiss-Fraktionen, Strahlentherapie, Supp. 36, 86-94, 1956.
- Maurer, W., Untersuchungen zur Grosse des Eiweissumsatzes von Plasma- und Organeiweiss, Wien. Z. Inn. Med. 10: 393-413, 1957.
- Mayr, G., The use of Nuclear Emulsions to Determine Small Amounts of P-33 Present in Samples of P-32, Experientia 11(1): 21-2, 1955.
- Mayr, G., Determinazioni Quantitative di Massima Sensibilita' Mediante le Emulsioni Fotografiche Nucleari, Tumori 41: 481-8, 1955.
- Mayr, G., Le Emulsioni Fotografiche come Strumento di Ricerca Biologica, Tumori 41: 489-99, 1955.
- Mayr, G., Determinazione e Utilizzazione del Fosforo 33, Presente nel radiofosforo Invecchiato, Tumori 42(3): 411-18, 1956.
- Mayr, G., Advantages given by P³³- or aged P³²- in Autoradiography, Experientia 12(8): 298-9, 1956.
- Mazia, D., W. S. Plaut, and G. W. Ellis, A Method for the Quantitative Assessment of Autoradiographs, Exper. Cell. Res. 9(2): 305-12, 1955.
- McIssac, R. J., The Distribution of Zinc-65 in the Rat Pancreas, Endocrinology 57(5): 571-9, 1955.
- McQuade, H. A., M. Friedkin, and A. A. Atchison, Radiation Effects of Thymidine-2-C¹⁴. I. Uptake of Thymidine-2-C¹⁴ and Thymine-2-C¹⁴ in the Onion Root Tip, Exp. Cell. Research 11: 249-56, 1956.

- Medvedev, Z. A., Distribution of Labeled S^{35} Substance in Proteins and Plant Organs of the new Generation during the Course of the Entire Period of Development of Bean Seeds, Doklady Akademii Nauk SSSR(English Trans.) Biochemistry Section, 114: 126-9, 1957.
- Mehl, H. G., Autoradiography as a new Method of Research, Photo-Technik U. Wirtschaft 6: 354-57, 1955.*
- Mellgren, J., F. Knutsson, and T. Norin, Localization and Effect of Injected Radioactive Gold (Au^{198}) in the Treatment of Malignant Tumors. I., Acta Pathol. Microbiol. Scand. 34: 393-409, 1954.
- Meroni, C. M., P. M. Bazerque, and D. E. Pujo, Tecnica para la Obtencion de Radioautografias, Revista Odontologica (Buenos Aires) 40(8): 20-3, 1952.
- Messier, B., and C. P. Leblond, Preparation of Coated Radioautographs by Dipping Sections in Fluid Emulsion, Proc. Soc. Exptl. Biol. and Med. 96: 7-10, 1957.
- Messier, B., C. P. Leblond, and I. Smart, Presence of DNA Synthesis and Mitosis in the Brain of Young Adult Mice, Exp. Cell. Research 14: 224-6, 1958.
- Miller, J. W., and H. W. Elliott, Rat Tissue Levels of Carbon-14 Labelled Analgetics as related to Pharmacological Activity, J. Pharmacol. Exp. Therap. 113(3): 283-91, 1955.
- Mineral Metabolism in Animals. II. Interrelationships of Minerals, Vitamins, Hormones, and other Factors, Univ. of Tenn. Agricultural Research Program, Progress Report, ORO-160, pp. 38-51, 1957.
- Mineral Metabolism in Animals. II. Interrelationship of Minerals, Vitamins, Hormones, and other Factors, Univ. of Tenn. Agricultural Research Program, Progress Report, ORO-163, pp. 49-57, 1957.
- Montagna, W., and C. R. Hill, The Localization of S^{35} in the Skin of the Rat, Anat. Record 127: 163-171, 1957.
- Morel, F., and M. Guinnebault, Origine Tubulaire du Potassium Excrété par la Rein: Etude Experimentale à L'aide du Radio-Potassium K^{42} chez le lapin, Helv. Physiol. Acta 14: 255-63, 1956.
- Moricard, R., and S. Gothie, L'utilisation des Traceurs ($32P$ et $35S$) dans L'étude de la Maturation Ovulaire, de la Fecondation et de la Segmentation de L'oeuf, Ann. Ostet. Gin. 78(1): 106-117, 1956.
- Morrow, P. E., F. R. Gibb, R. Cloutier, L. J. Casarett, and J. K. Scott, Fate of Indium Sesquioxide and of Indium-114 Trichloride Hydrolysate following Inhalation in Rats, Univ. of Rochester AEC Report, UR-508, 1958.

- Moses, M. J., and J. H. Taylor, Desoxy-pentose Nucleic Acid Synthesis during Microsporogenesis in *Tradescantia*, *Exp. Cell. Research* 9: 474-88, 1955.
- Moyson, F., Étude Autoradiographique de L'incorporation Nucleocytoplasmique D'aides Amines Marques et D'adenine dans le fore Normal et en Regeneration, *Arch. Biol.* 66(2): 149-66, 1955.
- Moyson, F., Limitation de L'emploi des Coupes Tissulaires pour L'étude des Phénomènes Métaboliques, *Experientia* 12: 103-4, 1956.
- Moyson, F., Étude Autoradiographique de L'incorporation de Glycine Marquée au Cours de L'hépatite Toxique chez le Rat, *Revue Belge Pathol. Med. Exp.* 25: 190-7, 1956.*
- Muller, J. H., Radiogold-Therapie, mit Besonderer Berücksichtigung der Behandlung des Ovarial-Karzinoms in Seinen Verschiedenen Ausbrietungsstadien, *Strahlentherapie, Supp.* 33: 137-48, 1955.
- Muller, J. H., Zur Dosimetrie des Intraperitoneal Applizerten Kolloidalen Radiogoldes (Au¹⁹⁸), mit Spezieller Berücksichtigung der Neutronen-Aktivationsanalyse, *Strahlentherapie, Supp.* 36: 177-86, 1956.
- Myers, H. M., The Localization of Radiocalcium in the Mandibular Incisor and Adjacent Structures of the Rat, *J. Dental Research* 34(2): 217-24, 1955.
- Nadler, N. J., The Quantitative Estimation of Radioactive Isotopes by Radioautography, *Am. J. Roentgenol.* 70(4): 814-23, 1953.
- Nadler, N. J., and C. P. Leblond, The Site and Rate of Formation of Thyroid Hormones, *The Thyroid, Brookhaven Symposium in Biol. No. 7*, 40-60, 1955.
- Nadler, N. J., C. P. Leblond, and R. Bogoroch, The Rate of Iodine Metabolism by the Thyroid Follicle as a Function of its Size, *Endocrinol.* 54: 154-172, 1954.
- Nakayama, K., Diagnostic Significance of Radioactive Isotopes in Early Cancer of the Alimentary Tract, especially the Esophagus and the Cardia, *Surgery* 39: 736-59, 1956.
- Nandi, S., R. K. Poddar, and C. K. Pyne, The Total and Differential Concentration of Radio-iodine in Thyroid Tissue and its Variation with Time, as Studied by Auto-radiography, *J. Endocrinol.* 13(2): 125-32, 1956.
- Narahara, H. T., N. B. Everett, B. S. Simmons, and R. H. Williams, Metabolism of Insulin-I¹³¹ and Glucagon-I¹³¹ in the Kidney of the Rat, *Am. J. Physiol.* 192: 227-31, 1958.

- Nelson, A., An Improved Method for Macroscopic Radioautography, *Acta Radio.* 47: 199-202, 1957.
- Nelson, C. D., and P. R. Gorham, Uptake and Translocation of C¹⁴-labelled Sugars applied to Primary Leaves of Soybean Seedlings, *Canad. J. Botany* 35: 339-47, 1957.
- Neukomm, S., J. Rivier, and P. Leich, Comportement et Action de l'or Colloïdal Radioactif dans les Épanchements Pleureaux et Peritoneaux, *Schweiz. Med. Wochschr.* 84: 512-14, 1954.
- Niklas, A., and N. Oehlert, Autoradiographische Untersuchung der grosse des Eiweisstoffwechsels Verschiedener Organe, Gewebe, und Zellarten, *Beit. Patholog. Anat.* 116(1): 92-123, 1956.
- Niklas, A., and W. Oehlert, Autoradiographische Untersuchungen der grosse des Eiweisstoffwechsels Verschiedener Organe, Gewebe und Zellarten, *Acta Histochem.* 4: 166-70, 1957.
- Nichita, H., and K. H. Larson, Summary of Certain Trends in Soil-Plant Relationship Studies of the Biological Availability of Fall-out Debris, UCLA, A.E.C. Report No. 401, pp. 1-68, 1957.
- Norhagen, A., and E. Odeblad, A Study on the Uptake of Radioactive Sulfate in the Kidney, *Acta Pathol. Microbiol. Scand.* 36(3): 224-7, 1955.
- Norhagen, A., and E. Odeblad, Uptake of Radiosulfate in the Islets of Langerhans of Mice, *Arch. Biochem. Biophys.* 54(2): 562-3, 1955.
- Norris, W. P., and L. A. Woodruff, The Fundamentals of Radioautography, *Annual Review of Nuclear Science*, Ed. by J. G. Beckerley, 5: 297-326, 1955.
- Odeblad, E., Grundamnesundersokningar i Ovarier och Uterus med Aktiveringsanalys, *Nord. Med.* 51: 779-80, 1954.
- Odeblad, E., Pin-hole Autoradiography, *Acta Radiol.* 43(2): 145-51, 1955.
- Odeblad, E., Autoradiography coupled with Fractionation of the Rabbit Ovary, *Acta Pathol. Microbiol. Scand.* 36(2): 125-8, 1955.
- Odeblad, E., Matrix Theory of Quantitative Apposition Autoradiography, *Acta Radiol.* 45(4): 323-29, 1956.
- Odeblad, E., A Method for the Measurement of the Thickness of Histologic Paraffin Sections using the Backscattering of Beta Particles, *Acta Radiol.* 47: 249-53, 1957.
- Odeblad, E., and H. Bostrom, A Study on the Effect of S³⁵-labelled Sodium Sulphate on Fertility in Mice, *Acta Radiol.* 41: 525-28, 1954.

- Odeblad, E., E. L. Dobson, A. M. Odeblad, and H. B. Jones, Autoradiographic Study of the Distribution of Radioactive Particulate Chromic Phosphate in Liver, Spleen, and Lung of the Mouse, *Am. J. Physiol.* 181(3): 210-14, 1955.
- Odeblad, E., and G. Magnusson, An Autoradiographic Study on the Intracellular Accumulation of Radioactive Phosphate in the Egg Cell of the Mouse, *Acta Endocrinol.* 17(1-4): 290-3, 1954.
- Odeblad, E., and C. A. Tobias, Autoradiography after Activation of Histological Sections with Deuterons, *Arch. Biochem. Biophys.* 49(2): 452-3, 1954.
- Odeblad, E., and D. Ziliotto, Accumulation of Radioactive Phosphate in Epithelia, *Acta Pathol. Microbiol. Scand.* 37: 150-2, 1955.
- Odell, T. T., and L. H. Smith, Localization of Injected Bone Marrow Cells by Autoradiography, *Acta Haemat.* 19: 114-20, 1958.
- Ortavant, R., Autoradiographie des Cellules Germinales du Testicule de Belier. Duree des Phenomenes Spermatogenetiques, *Arch. Anat. Micr.* 45(1): 1-10, 1956.
- Osborne, J. C., and K. Kowalewski, The Uptake of Radiosulfur in the Fractured Humerus in the Rat, *Surg. Gyn. and Obstet.* 103: 38-40, 1956.
- Oster, H., H. W. Kundt, and R. Taugner, Methodische Untersuchungen zur Autoradiographischen Darstellung Wasserloslicher Stoffe in der Niere, *Arch. Exp. Pathol.* 224(5-6): 476-82, 1955.
- Otsuka, J., Y. Arai, and S. Jo, Radioautograph of Malignancy of the Gastrointestinal Tract, Gann; The Japanese Journal of Cancer Research 47(3-4): 478-480, 1956.*
- Owen, M., J. Jowsey, and J. Vaughan, Investigation of the Growth and Structure of the Tibia of the Rabbit by Microradiographic and Autoradiographic Techniques, *Br. J. Bone and Joint Surg.* 37-B(2): 324-42, 1955.
- Owen, M., H. A. Sissons, and J. Vaughan, The Effect of a Single Injection of High Dose of ⁹⁰Sr(500-100 µC/kg) in Rabbits, *Br. J. of Cancer* 11: 229-248, 1957.
- Pallas, J. E. Jr., and A. S. Crafts, Critical Preparation of Plant Material for Autoradiography, *Science* 125: 192-3, 1957.
- Pantelouris, E. M., and L. Mulherkar, Tracer Studies on Chick Embryos in vitro, *J. Embryol. and Exp. Morph.* 5: 51-59, 1957.

- Papillon, J., M. Berger, and A. Anjou, Résultats Préliminaires des Injections Interstitielles d'or Radioactif, Bull. Assoc. Franc. Etude Cancer 41: 376-92, 1954.
- Passalacqua, F., Elementi di Tecnica Autoradiografica, in Riferimento alle Applicazioni nel Campo della Cancerologia, Tumori 40(2): 132-46, 1954.
- Passalacqua, F., Problemi et Orientamenti della Tecnica Autoradiografica nelle Ricerche Biologiche, Arch. Ital. Anat. Istolog. Patol. 28: 269-76, 1954.*
- Passalacqua, F., Problemi di Autoradiografia con Au-198, Nota II, Biologica Latina 7(4): 935-6, 1954.
- Passalacqua, A., Bibliography of the Publications of Biological and Medical Applications of Autoradiography, 1924-54, Biologica Latina, Suppl. 4: 1-30, 1955.
- Pavlovic, M. R., Uptake of ¹³¹I by the Thyroid of the Infantile Rat after Prolonged 'in vitro' Cultivation, J. Endocrinol. 12: 227-30, 1955.
- Pelc, S. R., The Stripping-Film Technique of Autoradiography, Internat. J. Appl. Radiation 1(3): 172-7, 1956.
- Pelc, S. R., Effect of X-rays on the Metabolism of Cell Nuclei of Non-dividing Tissues, Nature 178: 359-60, 1956.
- Pelc, S. R., On the Connection between the Synthesis of RNA and DNA in the Testis of the Mouse, Exp. Cell. Research 12: 320-4, 1957.
- Pelc, S. R., Nuclear Uptake of Labelled Adenine in the Seminal Vesicle of the Mouse, Exper. Cell. Research 14: 301-15, 1958.
- Pelc, S. R., and A. Glucksmann, Sulfate Metabolism in the Cartilage of the Trachea, Pinna, and Xiphoid Process of the Adult Mouse as Indicated by Autoradiographs, Exper. Cell. Research 8(2): 336-44, 1955.
- Pelc, S. R., and A. Howard, Effect of Irradiation on DNA Synthesis in vicia as shown by Autoradiographs, Acta Radiol. Supp. 116: 699, 1954. Abstract.
- Pelc, S. R., and A. Howard, A Difference between Spermatogonia and Somatic Tissues of Mice in the Incorporation of (8-¹⁴C)-Adenine into Deoxyribonucleic Acid, Exp. Cell. Research 11: 128-34, 1956.
- Pelc, S. R., and A. Howard, Metabolic Activity of Salivary Gland Chromosomes in Diptera, Exp. Cell. Research 10: 549-52, 1956.
- Pellerin, P., Technique D'autoradiographie a très basse Température, Comp. Rend. 244(11): 1555-1558, 1957.

- Phillipp, K., Die Autoradiographie in der Experimentellen Medizin, Strahlentherapie, Supp. 33: 21-30, 1955.
- Phillips, A. F., The Gamma-ray Dose in Carcinoma of the Thyroid treated by Radio-iodine, Acta Radiol. 41: 533-44, 1954.
- Phillips, A. F., The Choice of a Radioactive Isotope for Treatment of Carcinoma of the Thyroid, Br. J. Radiol. 30: 247-53, 1957.
- Phillips, A. F., and R. D. Saunders, Autoradiography and Radioactivity Measurements with Human Neoplasms containing Radiophosphorus, Acta Radiol. 48: 101-12, 1957.
- Pitt-Rivers, R., and W. R. Trotter, The Site of Accumulation of Iodide in the Thyroid of Rats treated with Thiouracil, Lancet 265: 918-9, 1953.
- Plant, W. S., DNA Synthesis in the Microsporocytes of Lilium Henryi, Hereditas 39: 438-44, 1953.
- Plendl, H. S., and F. E. Steigart, Projection of Nuclear Emulsion Track Images, Rev. Sci. Instr. 27: 239, 1956.
- Poddar, R., and K. R. Chatterjee, Autoradiographic Detection of Sulphone in the affected Tissues of Leprosy Patients, Nature 180: 854-5, 1957.
- Poliakov, V. A., Radioautography in the Study of Bone Fractures, Vestnik Rentgenologii i Radialogii 31(1): 69-73, 1956.*
- Polvani, F., and R. Silvestrini, Prime Indagini Autoradiografiche con Radiofosforo (³²P) sulla Placenta del Ratto; Nota Preliminare, Ann. Ostet. Gin. 77(6): 595-8, 1955.*
- Porcher, M. P., Valeur Diagnostique de la Radiocinematographie (film radiocinematographique 16 mm, 5m), Bull. Soc. Med. Hop. 71(11-12): 412-44, 1955.*
- Preuss, L. E., and C. Harrison, A Note on a Chemographic Artifact in Autoradiography, Science 120(3106): 67-8, 1954.
- Puget, E., A. Bru, and H. Planel, Contribution à L'étude du Devenir de l'or Radioactif Colloidal Injecte dans la Glande Mammaire de la Chienne, Bull. Assoc. Franc. Etude Cancer 42: 193-204, 1955.
- Radioisotope Uptake in Marine Organisms, Univ. of Hawaii Marine Lab. Annual Report, pp. 1-29, 1955.

Radium and Mesothorium Toxicity in Humans, Mass. Inst. of Tech. Radioactivity Center, AECU-3504, pp. 21-28, 1957.

Ramfjord, S. J. Burgers, and J. J. Hiniker, Radioautographic Study of P^{32} and Ca^{45} Uptake in Jaws and Knee Joints of Adult Rats, Oral Surg., Oral Med. and Oral Path. 10: 541-55, 1957.

Rice, E. L., and L. M. Rohrbaugh, Effect of Kerosene on Movement of 2,4-dichlorophenoxyacetic Acid and some Derivatives through destarched Bean Plants in Darkness, Botanical Gazette 115: 76-81, 1953.

Rice, E. L., and L. M. Rohrbaugh, Effects of Temperature on the Immobilization of 2,4-dichlorophenoxyacetic Acid in Bean Leaves in Darkness, Botanical Gazette 116: 261-6, 1955.

Rieder, G., Zur Autoradiographischen Methode, Naturwiss. 41: 421-2, 1954.

Rohrbaugh, L. M., and E. L. Rice, Relation of Phosphorus Nutrition to the Translocation of 2,4-dichlorophenoxyacetic Acid in Tomato Plants, Plant Physiol. 31: 196-9, 1956.

Romieu, C., P. Leenhardt, and R. Colin, Possibilités D'utilisation des Colloides Radioactifs dans L'exploration Lymphatique: Données Expérimentales, Montpellier Medical 50(1): 128-46, 1956.*

Romney, E. M., and S. J. Toth, Plant and Soil Studies with Radioactive Manganese, Soil Science 77: 107-17, 1954.

Root, S. W., G. A. Andrews, R. M. Kniseley, and M. P. Tyor, The Distribution and Radiation Effects of Intravenously Administered Colloidal Au^{198} in Man, Cancer 7: 856-66, 1954.

Root, S. W., M. P. Tyor, G. A. Andrews, and R. M. Kniseley, Distribution of Colloidal Radioactive Chromic Phosphate after Intracavitary Administration, Radiol. 63: 251-59, 1954.

Rotblat, J., and G. Ward, Analysis of the Radioactive Content of Tissues by α -track Autoradiography, Phys. in Med. and Biol. 1(1): 57-70, 1956.

Rotblat, J., and G. Ward, The Radioactivity from Thorotrast and its Retention in Tissues, Phys. in Med. and Biol. 1: 125-37, 1956.

Rothenburg, S. F., H. L. Jaffe, T. J. Putnam, and B. Simkin, Hypophysiotomy with Radioactive Chromic Phosphate in Treatment of Cancer, AMA Arch. of Neurol. Psychiat. 73: 193-99, 1955.

Rowland, R. E., J. Jowsey, and J. H. Marshall, Radon Escape from Bone Mineral, Radiation Research 8: 298-306, 1958.

Rozkos, M., and V. Petrzilka, Dependence of the Developed Density of Photographic Emulsions upon the Energy of the Beta-radiation used for Exposure, Czechoslovak J. Phys. 6: 237-45, 1956.*

- Ruf, F., Uber Stoffwechseluntersuchungen mit Radiophosphor und Radio-calcium in Knochen, Insbesondere Wahrend der Knochenbruchheilung und in Knochenspanen, Strahlentherapie, Supp. 33: 212-21, 1955.
- Salera, U., G. Tamburino, and P. Magnanelli, Citoautoradiografia per Annerimento in Ematologia; Metodologia e Tecnica, Progresso Medico 12: 612-16, 1956.*
- Salera, U., G. Tamburino, and P. Magnanelli, Un Artefatto Citoauto-radiografico da Formalina nelle Cellule del Midollo Osseo Dell'anemico Pernicioso, Haematologica, 42(5): 547-550, 1957.
- Sausen, R. E., Electrophoresis in Dentin with Radioactive Calcium, J. Dental Research 34: 12-19, 1955.
- Sausen, R. E., W. D. Armstrong, and W. J. Simon, Penetration of Radio-calcium at Margins of Acrylic Restorations made by Compression and Noncompression Technics, J. Am. Dental Assoc. 47(6): 636-9, 1953.
- Savchuck, W. B., Effects of Strontium and Fluoride on the Repair of Unreduced Humeral Fractures in the Adult Rat, Am. J. Bone and Joint Surg. 39A(1): 140-52, 1957.
- Schaefer, H. J., and A. Golden, Micro-alignment of Alpha Radioautographs by means of a Contact Replica of the Tissue Pattern printed with Visible Light, Exp. Cell. Research 5(2): 545-8, 1953.
- Schaefer, H. J., and A. Golden, The Effectiveness of Colloidal Thorium Dioxide as an Internal Alpha Emitter: A Combined Morphologic and Radio-autographic Study, Yale J. Biol. and Med. 27: 432-440, 1955.
- Schaefer, R., Mikrotopologische Zuordnung Histologischer Alpha-Radio-autographien mittels Lichtabdruck der Gewbestruktur, Strahlentherapie 94(1): 140-6, 1954.
- Schlesinger, M. J., H. Levi, and R. Weyant, Mounting of Stained Stripping Film Autoradiographs, Rev. Sci. Instr. 27: 969, 1956.
- Schmitterlow, C. G., An Autoradiographical Study of the Distribution of S-35 labelled Promethazine in the Body, Arch. Intern. Pharmacodynamie 108: 431-5, 1956.
- Schmitterlow, C. G., and Y. Cohen, Application de L'autoradiographie a L'etude Cinetique de la Fixation Elective D'une Substance Medicamenteuse, Ann. Pharm. Franc. 227-234, February, 1957.*
- Scott, A., and F. Kalz, The Penetration and Distribution of C¹⁴-Hydro-cortisone in Human Skin after its Topical Application, J. Invest. Derm. 26: 149-158, 1956.

- Scott, R., and L. E. Ericson, Some Aspects of Cobalt Metabolism by Rhodymenia Palmate with Particular Reference to Vitamin B₁₂ Content, *J. Exp. Bot.* 6: 348-61, 1955.
- Second Annual Conference on Plutonium, Radium, and Mesothorium, Univ. of Utah College of Medicine, pp. 1-335, 1954.
- Seiss, M., and G. Seybold, Das Impragnierungsverfahren der Autoradiographie von Gewebeschnitten, *Ztsch. Wissen. Mikroskopie* 63(3): 281-5, 1957.
- Shaw, M., and G. A. MacLachlan, Chlorophyll Content and Carbon Dioxide Uptake of Stomatal Cells, *Nature* 173: 29-30, 1954.
- Shellabarger, C. J., and J. T. Godwin, Studies on the Thyroidal Uptake of Astatine in the Rat, *J. Clin. Endocrinol.* 14: 1149-60, 1954.
- Sherman, A. A., and L. J. Essman, A New Method for the Production of Autoradiographs, *Science* 119: 659, 1954.
- Shintani, J., W. Florsheim, and J. W. Wilson, Radioautographic Study of Experimental Sporotrichosis after the Administration of Radioactive Iodine, *J. of Invest. Derm.* 26(2): 137-42, 1956.
- Simmel, E. B., The use of a Fast, Coarse-Grain Stripping Film for Radioautography, *Stain Tech.* 32: 299-300, 1957.
- Simon, F., Sur Différentes Préparations Démulsions Sensibles aux Particules Chargées, *Comp. Rend.* 241: 1564-67, 1955.
- Sirlin, J. L., Nuclear Uptake of Methionine-S³⁵ in the Newt Embryo, *Experientia* 11: 112-3, 1955.
- Sirlin, J. L., Tracing Morphogenetic Movements by Means of Labelled Cells, *Arch. Entwicklunsmech.* 148: 489-93, 1956.
- Sirlin, J., S. K. Brahma, and C. H. Waddington, Studies on Embryonic Induction using Radioactive Tracers, *J. Embryol. Exp. Morph.* 4: 248-53, 1956.
- Sirlin, J. L., and C. H. Waddington, Nuclear Uptake of Glycine-2-¹⁴C in the Newt Embryo, *Nature* 174: 309, 1954.
- Sirlin, J. L., and C. H. Waddington, Cell Sites of Protein Synthesis in the Early Chick Embryo, as indicated by Autoradiographs, *Exp. Cell. Research* 11(1): 197-205, 1956.
- Sisler, E. C., Wm. Duggar, Jr., and H. C. Gauch, The Role of Boron in the Translocation of Organic Compounds in Plants, *Plant Physiol.* 31: 11-17, 1956.

- Smith, A. H., D. G. Reck, and J. R. Luick, Phosphate Exchange in Marrow-filled and Pneumatized Bones of Birds, *Am. J. Physiol.* 190: 455-6, 1957.
- Smith, F. A., R. J. Della Rosa, and L. J. Casarett, Analytical and Autoradiographic Methods for Polonium-210, Univ. of Rochester AEC Report No. UR-305, 1955.
- Smith, R. F., The Use of Polarized Light in the Photography of Unstained Histological Radio Autographs of Plant Tissue, *J. Biol. Photographic Assoc.* 22(1): 15-6, 1954.
- Sognaes, R. F., Microstructure and Histochemical Characteristics of the Mineralized Tissues, *Ann. N. Y. Acad. Sci.* 60(5): 545-74, 1955.
- Sommers, S. C., B. S. Geyer, and R. N. Chute, Autoradiographic Arsenic Localization in Adult and Embryonic Epithelium and Connective Tissues, *Proc. Soc. Exptl. Biol. and Med.* 84(1): 234-9, 1953.
- Sperling, F., Electron-track Autoradiography of Radioactive Frog Embryos, *Nature* 174(4433): 749, 1954.
- Sterling, C., and C. O. Chichester, Autoradiography of Water-soluble Materials in Plant Tissues, *Stain Tech.* 31(5): 227-30, 1956.
- Stiefel, G. E., and B. Jasinski, Kolloidale Eisenverbindungen und ihr Transport im Blut, *Schweiz. Med. Wochschr.* 84(33): 946-7, 1954.
- Stonier, T., Labelling Crown Gall Bacteria with P32 for Radioautography, *J. Bacteriol.* 72(2): 259-268, 1956.
- Stonier, T., Radioautographic Evidence for the Intercellular Location of Crown Gall Bacteria, *Am. J. Bot.* 43: 647-55, 1956.
- Struxness, E. G., A. V. Luessenaop, S. R. Bernard, and J. C. Gallimore, The Distribution and Excretion of Hexavalent Uranium in Man, Proceedings of the International Conference on the Peaceful Uses of Atomic Energy, Vol. 10, United Nations, New York, pp. 186-96, 1956.
- Subcommittee on Atomic Energy of the Council on Dental Research, A.D.A., Bibliography on Uses of Radioactive Materials in Dental Science, *J. Am. Dental Assoc.* 47: 658-60, 1953.
- Sun, K. H., and P. Szydluk, How to Increase Sensitivity of Alpha-Particle Photographic Detection, *Nucleonics* 13(7): 48-50, 1955.

- Tauxe, W. H., A. H. Moser, and G. A. Boyd, Etymology of Autoradiography, *Science* 120: 149-50, 1954.
- Taylor, J. H., Intracellular Localization of Labeled Nucleic Acid Determined with Autoradiographs, *Science* 118: 555-7, 1953.
- Taylor, J. H., and R. D. McMaster, Autoradiographic and Microphotometric Studies of Desoxyribose Nucleic Acid during Microgametogenesis in *Lilium Longiflorum*, *Chromosoma* 6(6-7): 489-521, 1954.
- Taylor, J. H., R. D. McMaster, and M. F. Caluya, Autoradiographic Study of Incorporation of P-32 into Ribonucleic Acid at the Intracellular Level, *Exp. Cell. Research* 9(3): 460-73, 1955.
- Taylor, J. H., P. S. Woods, and W. L. Hughes, The Organization and Duplication of Chromosomes as Revealed by Autoradiographic Studies using Tritium-labeled Thymidine, *Proc. U. S. Nat. Acad. Sci.* 43: 122-8, 1957.
- Taylor, S., The Evolution of Nodular Goiter, *J. Clin. Endocrinol.* 13(10): 1232-47, 1953.
- Taylor, S., An Autoradiographic Study of Simple Goitre, *Bull. World Health Org.* 9(2): 197-210, 1953.
- Taylor, S., Calcium as a Goitrogen, *J. Clin. Endocrinol.* 14: 1412-22, 1954.
- Therapeutic Use of Artificial Radioisotopes, P. H. Hahn, Ed., Wiley, New York, pp. 1-414, 1956.
- Therapy of Radioelement Poisoning, Argonne National Laboratory Report No. 5584, pp. 1-175, 1956.
- Thompson, R. C., and O. L. Hollis, Irradiation of the Gastrointestinal Tract of the Rat by Ingested Ruthenium-106, Hanford Works Report No. 45546, pp. 1-32, 1956.
- Truhaut, R., P. Blanquet, and L. Capot, Sur la Répartition du ^{204}Tl Autoradiographique chez Lapin. Preuve de sa Localisation au Niveau du Système Pileux, *Comp. Rend.* 245: 234-7, 1957.
- Ullberg, S., Autoradiographical Distribution and Excretion Studies with S35-labelled Penicillin, *Proc. Soc. Exptl. Biol. and Med.* 85: 550-53, 1954.
- Ullberg, S., Studies on the Distribution and Fate of S³⁵-labelled Benzylpenicillin in the Body, *Acta Radiol. Supp.* 118: 1-110, 1954.
- Urist, M. R., and N. S. MacDonald, The Function of the Donor Tissue in Bone Graft Operations, U.C.L.A. AEC Report No. 400, pp. 1-26, 1957.

- Van Cleve, C. D., and C. T. Kaylor, Distribution, Retention, and Elimination of Be^7 in the Rat after Intratracheal Injection, *AMA Arch. of Ind. Health* 11: 375-92, 1955.
- Vaughan, J. M., The Effects of Radiation on Bone, *The Biochemistry and Physiology of Bone* Ed. by G. H. Bourne, Academic Press, 1956, pp. 729-65.
- Vaughan, J. M., and M. L. Tutt, Use of Ethylene Diamine Tetra-Acetic Acid (versene) for removing Fission Products from the Skeleton, *Lancet* 265: 856-59, 1953.
- Verly, W. G., G. Hunebelle, and H. Firket, Préparation de Thymidine Tritiée pour Etudier la Biosynthèse de L'adn par la Technique de L'autoradiographie, *Arch. Intern. Physiol.* 66: 130-1, 1958.
- Vincent, J., Recherches sur la Constitution du Tissu Osseux Compact, *Arch. Biol. (Liege)* 65: 531-69, 1954.
- Vincent, J., Sur la Substance Fondamentale des Ostéones en Formation, *Compt. Rend. Soc. Biol.* 148: 1675-7, 1954.
- Vincent, J., Le Remaniement de l'os Compact chez le Cercopitheque, *Arch. Biol. (Liege)* 68: 561-79, 1957.
- Vincent, W. S., Loss of Radioactivity from Tissue Sections during Histological Processing, *Biol. Bull.* 107: 321, 1954.
- Waddington, C. H., and J. L. Sirlin, The Incorporation of Labelled Amino-Acids into Amphibian Embryos, *J. Embryol. Exp. Morph.* 2: 340-47, 1954.
- Waddington, C. H., and J. L. Sirlin, Studies in Amphibian Embryogenesis using Labelled Grafts, *Proc. Roy. Phys. Soc. Edin.* 24: 28-31, 1955.*
- Wainwright, W. W., Time Studies of the Penetration of Extracted Human Teeth by Radioactive Nicotinamide, Urea, Thiourea, and Acetamide. I. Diffuse Penetration from the Enamel Surface, *J. Dental Research* 33(6): 767-79, 1954.
- Wainwright, W. W., Dental Uses of Radioisotopes, Proceedings of the International Conference on the Peaceful Uses of Atomic Energy, Vol. 10, United Nations, pp. 440-52, 1956.
- Wainwright, W. W., E. C. Anderson, P. C. Hammer, and C. A. Lehman, Simplified Autoradiography Exposure Calculation, *Nucleonics* 12(1): 19-21, 1954.
- Wainwright, W. W., and H. H. Belgorod, Time Studies of the Penetration of Extracted Human Teeth by Radioactive Nicotinamide, Urea, Thiourea, and Acetamide. II. Penetration of Dentin from the Pulp Chamber, *J. Dental Research* 34(1): 28-37, 1955.
- Walker, P. M. B., In *Physical Techniques in Biological Research*. Ed. by G. Oster and A. W. Pollister, Vol. 3, pp. 402, Academic Press, N. Y., 1956.

- Wainwright, W. W., B. G. Butt, J. D. Hauptfuehrer, and H. L. Dute, Deposition of Radioactive Iodine in Teeth of Persons Treated for Disease of the Thyroid Gland, *J. Am. Dental Assoc.* 47: 649-55, 1953.
- Wallace-Durbin, P., The Metabolism of Fluorine in the Rat using F-18 as a Tracer, *J. Dental Research* 33(6): 789-800, 1954.
- Wallihan, E. F., and L. Heyman-Herschberg, Some Factors affecting Absorption and Translocation of Zinc in Citrus Plants, *Plant Physiol.* 31: 294-9, 1956.
- Walters, M. C., and R. Thaine, Carbon-14 β -track Autoradiography of High Resolution, *Nature* 173: 1146-7, 1954.
- Warner, G. F., and E. L. Dobson, Disturbances in the Reticulo-Endothelial System following Thermal Injury, *Am. J. Physiol.* 179: 93-8, 1954.
- Waser, P. G., and U. Lüthi, Autoradiography of End-Plates with Carbon-14-Calabash-curarine I and Carbon-14-Decamethonium, *Nature* 178: 981, 1956.
- Waser, P. G., and U. Lüthi, Autoradiographische Lokalisation von ^{14}C -Calabassen-curarin I and ^{14}C -Decamethonium in der Motorischen Endplatte, *Arch. Intern. Pharmacodynamie* 112: 272-96, 1957.*
- Werner, S. C., R. J. Block, R. H. Mandl, and A. A. H. Kassenaar, Pathogenesis of a case of Congenital Goiter with Abnormally high Levels of SPI and with Mono- and Diiodotyrosine in the Serum, *J. Clin. Endocrinol.* 17(7): 817-831, 1957.
- Wheeler, G. P., J. S. Morrow, and H. E. Skipper, Studies with Mustards. II. Paper Chromatography and Radioautography of Reaction Mixtures of Various Compounds with S-35-Sulfur Mustard, *Arch. Biochem. Biophys.* 57(1): 133-9, 1955.
- Whitehouse, W. J., and J. L. Putman, Radioactive Isotopes, Oxford, London, pp. 306-12, 1953.
- Williams, D. E., and J. Vlamis, The Effect of Silicon on Yield, Mn^{54} Uptake, and Mn^{54} Distribution in the Leaves of Barley Plants Grown in Culture Solutions, *Plant Physiol. Supp.* 31: 6, 1956.
- Williams, D. E., and J. Vlamis, The Effect of Silicon on Yield and Manganese- 54 Uptake and Distribution in the Leaves of Barley Plants Grown in Culture Solutions, *Plant Physiol.* 32: 404-09, 1957.

- Witten, V. H., and M. B. Sulzberger, The Mode of Action of Thorium X on Human Skin, *Am. J. Roentgenol.* 74: 90-97, 1955.
- Witten, V. H., E. W. Brauer, R. Loevinger, and V. Holmstrom, Studies of Radioactive Phosphorus (P^{32}) Applied to Human Skin. I. Erythema and Autoradiographic Findings following Applications in Various Forms, *J. Invest. Derm.* 26: 437-47, 1956.
- Wollman, S. H., and I. Wodinsky, Localization of Protein-Bound I-131 in the Thyroid Gland of the Mouse, *Endocrinol.* 56(1): 9-20, 1955.
- Woodruff, L. A., and W. P. Norris, Sectioning of Undecalcified Bone; with Special References to Radioautographic Applications, *Stain Tech.* 30: 179-188, 1955.
- Wright, K. E., and N. L. Barton, Transpiration and the Absorption and Distribution of Radioactive Phosphorus in Plants, *Plant Physiol.* 30: 386-88, 1955.
- Yagoda, H., Isothermal Processing of Thick Nuclear Emulsions, *Rev. Sci. Instr.* 26: 263-6, 1955.
- Zachariae, F., Autoradiographic Investigations on the Uptake of Radioactive Sulphate (^{35}S) into the Ovarian Follicular Mucopolysaccharides, *Acta Endocrinol.* 26: 215-24, 1957.
- Ziliotto, D., and E. Odeblad, A Study on the Uptake of P^{32} in Several Organs of Anemic Rats, *Acta Pathol. Microbiol. Scand.* 37: 153-56, 1955.

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.

