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BIOLOGY DIVISION BULLETIN
CLINTON NATIONAL LABORATORY
OAK RIDGE, TENNESSEE

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*** DR. SHIELDS WARREN AND MEMBERS OF THE ATOMIC ENERGY ADVISORY ***
BOARD FOR BIOLOGY AND MEDICINE TO VISIT OAK RIDGE

Dr. Shields Warren, director of the Division of Biology and Medicine of the Atomic Energy Commission, Washington, D. C., and all members of the Advisory Board for Biology and Medicine will pay a two-day visit to Oak Ridge installations on Friday and Saturday, December 12 and 13. The morning of December 12 will be spent inspecting Clinton National Laboratory facilities. Nine men, including the director and assistant to the director, will make the trip to Tennessee. The members of the party and their connections are listed below.

Dr. Warren, Director of the Division, is Director of Pathology at Deaconess Hospital, Boston, Massachusetts.

Dr. John Bowers, Assistant to the Director, is affiliated with Johns Hopkins Hospital, Baltimore, Maryland.

Dr. Alan Gregg, Chairman of the Board, is Director for Medical Sciences, Rockefeller Foundation, New York City.

Dr. A. B. Hastings, Professor of Biochemistry at Harvard Medical School, Boston, Massachusetts.

Dr. E. O. Goodpasture, Dean of the Medical School, Vanderbilt University, Nashville, Tennessee.

Dr. D. W. Bronk, Director of Johnson Research Foundation of the University of Pennsylvania, Philadelphia. He is also Chairman of the National Research Council.

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Dr. J. P. Wearn, Dean of the School of Medicine and Professor of Medicine at Western Reserve University, Cleveland, Ohio.

Dr. E. C. Stakman, Chief of the Division of Plant Pathology and Botany, University of Minnesota, Minneapolis, Minnesota.

Dr. G. W. Beadle, Professor and Chairman of the Division of Biology, California Institute of Technology, Pasadena, California.

BIOLOGY SEMINARS

Meetings continue to be held on Thursday afternoons at 3:30 on the third floor of Building 9207. Shuttle leaves X-10 at 2:50 p.m.

December 4, 1947

Speaker: Dr. Alan D. Conger

Subject: "X-Ray Sensitivity of the Stages of Mitosis"

December 11, 1947

Speakers: Mr. G. E. Stapleton, Dr. E. H. Anderson, Dr. J. G. Carlson

Subjects (listed in order of speakers): "Techniques for Irradiating Microorganisms with Artificially Radioactive Materials, Part I - Radioactive Material in Suspension"

"Techniques for Irradiating Microorganisms with Artificially Radioactive Materials, Part II - External Radiation Sources"

"Relative Effectiveness of Different Intensities of Gamma Radiation in Retarding Mitosis in the Grasshopper Neuroblast"

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- Bacteriophage formation without bacterial growth. I. Formation of staphylococcus phage in the presence of bacteria inhibited by penicillin, by Winston H. Price.
Journal of General Physiology, Vol. 31, No. 2, Nov. 1947, p. 119.
- Bacteriophage formation without bacterial growth. II. The effect of niacin and yeast extract on phage formation and bacterial growth in the presence of penicillin, by Winston H. Price.
Journal of General Physiology, Vol. 31, No. 2, Nov. 1947, p. 127.
- Bacteriophage formation without bacterial growth. III. The effect of iodoacetate, fluoride, gramicidin, and azide on the formation of bacteriophage, by Winston H. Price.
Journal of General Physiology, Vol. 31, No. 2, Nov. 1947, p. 135.
- Interactions between enzyme-forming systems during adaptation, by S. Spiegelman and Reba Dunn.
Journal of General Physiology, Vol. 31, No. 2, Nov. 1947, p. 153.
- The formation and stabilization of adaptive enzyme in the absence of substrate, by S. Spiegelman and John M. Reiner.
Journal of General Physiology, Vol. 31, No. 2, Nov. 1947, p. 175.
- The Inhibition of Ribo- and Thymo-Nucleic Acid Synthesis in Tumour Tissue by Irradiation with X-rays, by Barbara E. Holmes.
British Journal of Radiology, Vol. 20, No. 239, Nov. 1947, p. 450.
- Desoxyribose Nucleic Acid from Isolated Chromosome Threads in Experimental Methylcholanthrene Carcinogenesis in Mice, by A. R. Gopal-Ayengar and E. V. Cowdry.
Cancer Research, Vol. 7, No. 1, Jan. 1947, p. 1
- Succinic Dehydrogenase and Cytochrome Oxidase in Epidermal Carcinogenesis induced by Methylcholanthrene in Mice, by Christopher Carruthers and V. Sontzef.
Cancer Research, Vol. 7, No. 1, Jan. 1947, p. 9.
- Sex Hormone Effects on Chromosome Size in Leukemic and Normal Lymphocytes of C58 Mice, by John J. Biesele and Gabriel Gasic.
Cancer Research, Vol. 7, No. 2, Feb. 1947, p. 65.
- Chromosomes in Lymphatic Leukemia in C58 Mice, by John J. Biesele.
Cancer Research, Vol. 7, No. 2, Feb. 1947, p. 70.
- A Study of Three New Duck Variants of the Rous Chicken Sarcoma, by F. Duran-Reynals.
Cancer Research, Vol. 7, No. 2, Feb. 1947, p. 99

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- Transmission of Adult Pigeons of Several Variants of the Rous Sarcoma of Chickens, by F. Duran-Reynals.
Cancer Research, Vol. 7, No. 2, Feb. 1947, p. 103.
- The Response of Rats to the Simultaneous Application of Two Different Carcinogenic Agents, by Werner G. Jaffe.
Cancer Research, Vol. 7, No. 2, Feb. 1947, p. 113.
- The Excretion of N¹⁵ in the Urine of Dogs after the Administration of Labeled Pentobarbital, by H.B. van Dyke, John V. Scudi and D.L. Tabern.
Journal of Pharmacology and Experimental Therapeutics, Vol. 90, No. 4, Aug. 1947, p. 364.
- Further experiments upon the Effect of Methionine on the Nitrogen loss after Burning, by M. de G. Gribble, R.A. Peters and R.W. Wakelin.
Journal of Physiology, Vol. 106, No. 4, 15 Oct. 1947, p. 36P
- Über Fluoreszenz, von K. Przibram.
Mikroskopie, Vol. 2, No. 3/4, 1947, p. 68.
- Oberst Dr. h.c. Max Haitinger, der Begründer der modernen Fluoreszenzmikroskopie, von F. Bräutigam.
Mikroskopie, Vol. 2, No. 3/4, 1947, p. 84.
- Wenig bekannte Anwendungsgebiete des Mikroskopes in Wissenschaft und Technik, von F. Bräutigam.
Mikroskopie, Vol. 2, No. 3/4, 1947, p. 118.
- Was lehrt die Fluoreszenzmikroskopie von der Plasmapermeabilität und Stoffspeicherung, von K. Höfler.
Mikroskopie, Vol. 2, No. 1/2, 1947, p. 13.
- Die biologischen Grundlagen der Strahlengenetik, von O. Paget.
Mikroskopie, Vol. 2, No. 1/2, 1947, p. 42.
- Biology of Cancer, by A. C. Ivy.
Science, Vol. 106, No. 2759, Nov. 14, 1947, p. 455.
- The Epidemiology of Cancer.
U.S. Navy. Medical News Letter, Vol. 10, No. 11, 21 Nov. 1947, p. 2.
- Pyridoxine in Radiation Sickness.
U.S. Navy. Medical News Letter, Vol. 10, No. 11, 21 Nov. 1947, p. 10
- Natural Radiocarbon from Cosmic Radiation, by W.F. Libby, S. Weinhouse, A.F. Reid, A.D. Kirshenbaun, and A.V. Grosse.
Physical Review, Vol. 72, No. 10, Nov. 15, 1947, p. 931.

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- Action du pH sur les bacteriophages C₁₆ et S₁₃, par R. Wahl et L. Blum-Emerique.
Annales de l'Institut Pasteur, Vol. 73, No. 8, Aug. 1947, p. 741.
- La Bacteriophagie en milieux liquides pauvres, par Pierre Nicolle et Paul Ducrest.
Annales de l'Institut Pasteur, Vol. 73, No. 8, Aug. 1947, p. 755.
- Recherches enzymatiques sur les mutations bacteriennes. II. Le metabolisme des diacides chez la forme normale et le mutant "succinate" de *Moraxella lwoffii*, par Andre Lwoff et Alice Audureau.
Annales de l'Institut Pasteur, Vol. 73, No. 6, Juin, 1947, p. 517.
- Irradiation ultraviolette de bacteriophages en cours de multiplication intra-cellulaire, par Raymond Latarjet et Salvatore Luria.
Annales de l'Institut Pasteur, Vol. 73, No. 7, Juli 1947, p. 666.
- Essais d'analyse du role de l'anhydride carbonique dans la croissance microbienne, par Andre Lwoff et Jacques Monod.
Annales de l'Institut Pasteur, Vol. 73, No. 4, Avril 1947, p. 323.
- Relations entre le pouvoir de synthetiser la proline et la resistance au bacteriophage chez des mutants d'*Escherichia coli*, par Elie Wollman.
Annales de l'Institut Pasteur, Vol. 73, No. 4, Avril 1947, p. 348.
- Etude du mecanisme de l'action des ultrasons sur les microbes, par M. Rouyer et P. Grabar.
Annales de l'Institut Pasteur, Vol. 73, No. 3, Mars 1947, p. 215.
- Essais de dissociation et de selection de *Penicillium notatum*, par H. Velu, J. Comandon, P. de Fondrune, M. Janot, H. Peneau, J. Mainil.
Annales de l'Institut Pasteur, Vol. 73, No. 1, Jan. 1947, p. 42.
- The History of the Origin of the Concept of Photosynthesis (On the Occasion of the 175th Anniversary of its Discovery), by L. A. Iwanoff.
Akademii Nauk SSSR. Bullitin. Serie Biologique, No. 3, 1947, May-June, p. 329.
- Modern Notions Concerning the Chemical Structure of Chlorophyll, by B. N. Stepanenko.
Akademii Nauk SSSR. Bullitin. Serie Biologique, No. 3, May-June 1947, p. 341.