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RESEARCH

NOVEMBER 1, 1934, TO MAY 1, 1935

THE DEPARTMENT OF THE LABORATORIES

Pathology and Bacteriology

- BAUER, JOHANNES H., and COX, HERALD R. Ultrafiltration of the virus of vesicular stomatitis. *Proc. Soc. Exp. Biol. and Med.*, January, 1935, **32**, pp. 567-570.
- †BEARD, J. W., and ROUS, PEYTON. A virus-induced mammalian growth with the characters of a tumor (the Shope rabbit papilloma). II. Experimental alterations of the growth on the skin: morphological considerations: the phenomena of retrogression. *Jour. Exp. Med.*, December 1, 1934, **60**, pp. 723-740.
- CLAUDE, ALBERT. Chemical constitution of chicken tumor extracts. *Am. Jour. Cancer*, November, 1934, **22**, pp. 586-589.
- †——. Properties of the causative agent of a chicken tumor. X. Chemical properties of chicken tumor extracts. *Jour. Exp. Med.*, January 1, 1935, **61**, pp. 27-40.
- †——. Properties of the causative agent of a chicken tumor. XI. Chemical composition of purified chicken tumor extracts containing the active principle. *Jour. Exp. Med.*, January 1, 1935, **61**, pp. 41-57.
- GREENE, HARRY S. N. Hereditary brachydactyilia and associated abnormalities in the rabbit. *Science*, April 26, 1935, **81**, pp. 405-407.
- †HU, CH'UAN-K'UEI. The high pathogenicity of a recently isolated strain of *Spirochaeta pallida*. *Arch. Dermatol. and Syphilol.*, December, 1934, **30**, pp. 847-853.
- and GREENE, HARRY S. N. A lethal mutation in the rabbit with stigmata of an acromegalic disorder. *Science*, January 4, 1935, **81**, pp. 25-26.

† Published in *Studies 92*.

- LANDSTEINER, K., and CHASE, M. W. Decomposition of the group A substance in horse saliva by a *Myxobacterium*. *Proc. Soc. Exp. Biol. and Med.*, February, 1935, **32**, pp. 713-714.
- and —. Additional note on decomposition of the group A substances. *Proc. Soc. Exp. Biol. and Med.*, April, 1935, **32**, p. 1208.
- † —, STRUTTON, W. R., and CHASE, M. W. An agglutination reaction observed with some human bloods, chiefly among Negroes. *Jour. Immunol.*, November, 1934, **27**, pp. 469-472.
- LYNCH, CLARA J. The rôles of heredity and environment in cancer. *Bull. Am. Soc. Control Cancer*, February, 1935, **17**, pp. 1-4.
- MACFADYEN, DOUGLAS A. Effect of aqueous extracts of chicken tumor on nucleic acid. *Am. Jour. Cancer*, November, 1934, **22**, pp. 597-600.
- MCMASTER, PHILIP D. Rate of lymph flow in edematous skin of cardiac and renal disease. *Proc. Soc. Exp. Biol. and Med.*, April, 1935, **32**, pp. 1178-1180.
- MURPHY, JAMES B. Experimental approach to the cancer problem. I. Four important phases of cancer research. II. Avian tumors in relation to the general problem of malignancy. *Bull. Johns Hopkins Hosp.*, January, 1935, **56**, pp. 1-31.
- †NIGG, CLARA. On the preservation of typhus fever rickettsiae in cultures. *Jour. Exp. Med.*, January 1, 1935, **61**, pp. 17-26.
- †OLITSKY, PETER K., and COX, HERALD R. Temporary prevention by chemical means of intranasal infection of mice with equine encephalomyelitis virus. *Science*, December 14, 1934, **80**, pp. 566-567.
- RAKE, GEOFFREY. Viability and virulence of frozen and dried cultures of meningococcus. *Proc. Soc. Exp. Biol. and Med.*, March, 1935, **32**, pp. 975-977.
- ‡ —. Studies on meningococcus infection. VII. The study of an isolated epidemic. *Jour. Exp. Med.*, April 1, 1935, **61**, pp. 545-558.
- . A method for titrating the protective action of antimeningococcal serum. *Proc. Soc. Exp. Biol. and Med.*, April, 1935, **32**, pp. 1175-1178.
- †ROSAHN, PAUL D., PEARCE, LOUISE, and HU, CH'UAN-K'UEI. Comparison of the hemacytological constitution of male and female rabbits. *Jour. Exp. Med.*, December 1, 1934, **60**, pp. 687-699.
- †ROUS, PEYTON, and BEARD, J. W. A virus-induced mammalian growth with the characters of a tumor (the Shope rabbit papilloma). I. The growth on implantation within favorable hosts. *Jour. Exp. Med.*, December 1, 1934, **60**, pp. 701-722.

† Published in *Studies* 92.

‡ To be published in *Studies* 93.

- †ROUS, PEYTON, and BEARD, J. W. A virus-induced mammalian growth with the characters of a tumor (the Shope rabbit papilloma). III. Further characters of the growth: general discussion. *Jour. Exp. Med.*, December 1, 1934, **60**, pp. 741-766.
- and —. Carcinomatous changes in virus-induced papillomas of the skin of the rabbit. *Proc. Soc. Exp. Biol. and Med.*, January, 1935, **32**, pp. 578-580.
- §SCHMIDT, LOUIS. The preparation of photomicrographs and the effective grouping of prints in pages. *Jour. Biol. Photographic Assn.*, March, 1935, **3**, pp. 123-129.
- †SMITHBURN, KENNETH C. The colony morphology of tubercle bacilli. I. The presence of smooth colonies in strains recently isolated from sources other than sputum. *Jour. Exp. Med.*, March 1, 1935, **61**, pp. 395-410.
- WEBSTER, LESLIE T. Experimental studies on St. Louis encephalitis. *Tr. Assn. Am. Physn.*, 1934, **49**, pp. 142-146.
- †—, CLOW, ANNA D., and BAUER, JOHANNES H. Experimental studies on encephalitis. III. Survival of encephalitis virus (St. Louis type) in *Anopheles quadrimaculatus*. *Jour. Exp. Med.*, April 1, 1935, **61**, pp. 479-487.
- and DAWSON, J. R., JR. Early diagnosis of rabies by mouse inoculation. Measurement of humoral immunity to rabies by mouse protection test. *Proc. Soc. Exp. Biol. and Med.*, January, 1935, **32**, pp. 570-573.
- †— and FITE, GEORGE L. Experimental studies on encephalitis. I. Transmission of St. Louis and Kansas City encephalitis to mice. *Jour. Exp. Med.*, January 1, 1935, **61**, pp. 103-114.
- †— and —. Experimental studies on encephalitis. II. The specific virus character of the infectious agent from cases of St. Louis and Kansas City encephalitis, 1933. *Jour. Exp. Med.*, March 1, 1935, **61**, pp. 411-422.

Chemistry

- †BERGMANN, MAX, and FOX, SIDNEY W. Complex salts of amino acids and peptides. I. Metal complex salts of glycine and their specificity. *Jour. Biol. Chem.*, April, 1935, **109**, pp. 317-324.
- , ZERVAS, LEONIDAS, and FRUTON, JOSEPH S. A synthetic peptide as substrate for tryptic proteinase. *Science*, February 15, 1935, **81**, p. 180.

† Published in *Studies 92*.

§ To be published in *Studies 94*.

‡ To be published in *Studies 93*.

- ‡BERGMANN, MAX, ZERVAS, LEONIDAS, FRUTQON, JOSEPH S., SCHNEIDER, F., and SCHLEICH, H. On proteolytic enzymes. V. On the specificity of dipeptidase. *Jour. Biol. Chem.*, April, 1935, **109**, pp. 325-346.
- ‡LEVENE, P. A. Note on the preparation of crystalline *d*-mannose and of crystalline *d*-ribose. *Jour. Biol. Chem.*, February, 1935, **108**, pp. 419-420.
- and COMPTON, JACK. On *d*-xylomethylose (5-desoxyxylose). *Science*, February 8, 1935, **81**, p. 156.
- and —. *d*-Gulo-methylose (6-desoxy-*d*-gulose) and its relation to a reported inversion product of *l*-rhamnose. *Jour. Am. Chem. Soc.*, April, 1935, **57**, pp. 777-778.
- ‡— and MARKER, R. E. Hydrocarbons derived from methylphenyl- and ethylphenylacetic acids. *Jour. Biol. Chem.*, February, 1935, **108**, pp. 409-418.
- †— and ROTHEN, ALEXANDRE. On Walden inversion. XVIII. Analysis of rotatory dispersion curves of α -substituted normal carboxylic acids. *Jour. Biol. Chem.*, November, 1934, **107**, pp. 533-553.
- †—, —, and MEYER, G. M. Rotations of the nitrophenyl esters of disubstituted acetic and propionic acids and of the corresponding free acids. *Jour. Biol. Chem.*, November, 1934, **107**, pp. 555-565.
- and TIPSON, R. STUART. The ring structure of thymidine. *Science*, January 25, 1935, **81**, p. 98.
- †MUSKAT, IRVING E. Reactions of carbohydrates in liquid ammonia. II. Apparatus and methods. Alkyl, acyl and certain metallic and non-metallic derivatives of diacetoneglucose. *Jour. Am. Chem. Soc.*, November, 1934, **56**, pp. 2449-2454.
- TIPSON, R. STUART. The nucleic acids, in Harrow, B., and Sherwin, C. P., A textbook of biochemistry, Philadelphia and London, W. B. Saunders Company, 1935, pp. 239-253.
- and STILLER, ERIC T. The carbohydrates, in Harrow, B., and Sherwin, C. P., A textbook of biochemistry, Philadelphia and London, W. B. Saunders Company, 1935, pp. 40-108.

Chemical Pharmacology

- JACOBS, WALTER A., and CRAIG, LYMAN C. The structure of the ergot alkaloids. *Jour. Am. Chem. Soc.*, February, 1935, **57**, pp. 383-384.
- ‡— and —. The ergot alkaloids. IV. The cleavage of ergotinine with sodium and butyl alcohol. *Jour. Biol. Chem.*, February, 1935, **108**, pp. 595-606.

† Published in *Studies 92*.

‡ To be published in *Studies 93*.

- JACOBS, WALTER A., and CRAIG, LYMAN C. The ergot alkaloids. *Science*, March 8, 1935, **81**, pp. 256-257.
- and ELDERFIELD, ROBERT C. The digitalis glucosides. VIII. The degradation of the lactone side chain of digitoxigenin. *Science*, November 9, 1934, **80**, p. 434.
- † — and —. The structure of the cardiac aglucones. *Science*, December 7, 1934, **80**, pp. 533-534.
- ‡ — and —. The structure of the cardiac aglucones. *Jour. Biol. Chem.*, February, 1935, **108**, pp. 497-513.
- † — and —. Strophanthin. XXXII. The anhydrostrophanthidins. *Jour. Biol. Chem.*, March, 1935, **108**, pp. 693-702.

Experimental Surgery

- † CARREL, ALEXIS. Monocytes as an indicator of certain states of blood serum. *Science*, December 14, 1934, **80**, pp. 565-566.
- . Technique pour l'étude simultanée des propriétés structurales et fonctionnelles des cellules. *Compt. rend. Soc. biol.*, Séance du 22 décembre, 1934, **117**, pp. 1144-1146.

General Physiology

- ‡ BLINKS, L. R. Protoplasmic potentials in *Halicystis*. IV. Vacuolar perfusion with artificial sap and sea water. *Jour. Gen. Physiol.*, January 20, 1935, **18**, pp. 409-420.
- HILL, SAMUEL E. Extraction of an emulsion-stabilizing substance from *Nitella* with distilled water. *Proc. Soc. Exp. Biol. and Med.*, December, 1934, **32**, pp. 413-414.
- ‡ —. Stimulation by cold in *Nitella*. *Jour. Gen. Physiol.*, January 20, 1935, **18**, pp. 357-367.
- ‡ — and OSTERHOUT, W. J. V. Nature of the action current in *Nitella*. II. Special cases. *Jour. Gen. Physiol.*, January 20, 1935, **18**, pp. 377-383.
- † JACQUES, A. G. The accumulation of electrolytes. VII. Organic electrolytes. Part 1. *Jour. Gen. Physiol.*, November 20, 1934, **18**, pp. 235-242.
- ‡ —. The accumulation of electrolytes. VII. Organic electrolytes. Part 2. *Jour. Gen. Physiol.*, January 20, 1935, **18**, pp. 283-300.
- † KAMERLING, S. E., and OSTERHOUT, W. J. V. The kinetics of penetration. IX. Models of mature cells. *Jour. Gen. Physiol.*, November 20, 1934, **18**, pp. 229-234.

† Published in *Studies 92*.

‡ To be published in *Studies 93*.

- ‡KUNITZ, M. A method for determining the rennet activity of chymo-trypsin. *Jour. Gen. Physiol.*, March 20, 1935, **18**, pp. 459-466.
- and NORTHROP, JOHN H. The isolation of crystalline trypsinogen and its conversion into crystalline trypsin. *Science*, November 30, 1934, **80**, pp. 505-506.
- ‡— and —. Crystalline chymo-trypsin and chymo-trypsinogen. I. Isolation, crystallization, and general properties of a new proteolytic enzyme and its precursor. *Jour. Gen. Physiol.*, March 20, 1935, **18**, pp. 433-458.
- †OSTERHOUT, W. J. V. Nature of the action current in *Nitella*. I. General considerations. *Jour. Gen. Physiol.*, November 20, 1934, **18**, pp. 215-227.
- ‡— . How do electrolytes enter the cell? *Proc. Nat. Acad. Sc.*, February, 1935, **21**, pp. 125-132.
- ‡— and HILL, SAMUEL E. Positive variations in *Nitella*. *Jour. Gen. Physiol.*, January 20, 1935, **18**, pp. 369-375.
- and —. Some experimental modifications of the protoplasmic surface. *Proc. Soc. Exp. Biol. and Med.*, February, 1935, **32**, p. 715.
- ‡— and —. Nature of the action current in *Nitella*. III. Some additional features. *Jour. Gen. Physiol.*, March 20, 1935, **18**, pp. 499-514.
- ‡TEORELL, TORSTEN. Studies on the "diffusion effect" upon ionic distribution. I. Some theoretical considerations. *Proc. Nat. Acad. Sc.*, March, 1935, **21**, pp. 152-161.

Physical Chemistry

- ‡BROWN, ALFRED S., and MACINNES, DUNCAN A. The determination of the solubility of silver chloride by an electrometric titration method. *Jour. Am. Chem. Soc.*, March, 1935, **57**, pp. 459-465.
- LONGSWORTH, LEWIS G. The theory of diffusion in cell models and volume changes analogous to growth, in Cold Spring Harbor symposia on quantitative biology, Cold Spring Harbor, Long Island Biological Association, 1934, **2**, pp. 218-225.
- †MICHAELIS, L., and RUNNSTRÖM, J. Inactivation and regeneration of the glycolytic enzyme system of muscle extract. *Proc. Soc. Exp. Biol. and Med.*, November, 1934, **32**, pp. 343-349.
- ‡— and SMYTHE, C. V. The influence of sodium thioglycollate on the glycolytic enzyme system of muscle extract. *Proc. Soc. Exp. Biol. and Med.*, March, 1935, **32**, pp. 825-827.
- ‡RUNNSTRÖM, JOHN. On the influence of pyocyanine on the respiration of the sea urchin egg. *Biol. Bull.*, April, 1935, **68**, pp. 327-334.

† Published in *Studies 92*.

‡ To be published in *Studies 93*.

SHEOLOVSKY, THEODORE, BROWN, ALFRED S., and MACINNES, DUNCAN A.
The conductance of aqueous electrolytes. *Tr. Electrochem. Soc.*, 1934,
66, pp. 165-178.

Biophysics

- †COREY, ROBERT B., and PESTRECOV, K. The space group of silver nitrate diammoniate, $\text{AgNO}_3 \cdot 2\text{NH}_3$. *Z. Krist.*, November, 1934, 89, p. 528.
- †— and WYCKOFF, RALPH W. G. The crystal structure of dimethyl ammonium chlorostannate. *Z. Krist.*, November, 1934, 89, pp. 469-476.
- ‡WYCKOFF, RALPH W. G. Ultraviolet microscopy as a means of studying cell structure, in Cold Spring Harbor symposia on quantitative biology, Cold Spring Harbor, Long Island Biological Association, 1934, 2, pp. 39-46.
- †— and COREY, ROBERT B. Spectrometric measurements on hexamethylene tetramine and urea. *Z. Krist.*, November, 1934, 89, pp. 462-468.
- and —. X-ray diffractions from hemoglobin and other crystalline proteins. *Science*, April 12, 1935, 81, pp. 365-366.

THE DEPARTMENT OF THE HOSPITAL

- ALVING, ALF S. The diet in chronic Bright's disease. *Med. Clin. North America*, March, 1934, 17, pp. 1195-1210.
- †— and VAN SLYKE, DONALD D. The significance of concentration and dilution tests in Bright's disease. *Jour. Clin. Inv.*, November, 1934, 13, pp. 969-998.
- ‡COHN, ALFRED E., and LEWIS, WILLIAM H., JR. Lobar pneumonia and digitalis. *Am. Jour. Med. Sc.*, April, 1935, 189, pp. 457-482.
- †— and STEELE, J. MURRAY. Unexplained fever in heart failure. *Jour. Clin. Inv.*, November, 1934, 13, pp. 853-868.
- FRANCIS, THOMAS, JR. Transmission of influenza by a filtrable virus. *Science*, November 16, 1934, 80, pp. 457-459.
- . Immunological relationships of strains of filtrable virus recovered from cases of human influenza. *Proc. Soc. Exp. Biol. and Med.*, April, 1935, 32, pp. 1172-1175.
- *GOEBEL, WALTHER F., AVERY, OSWALD T., and BABERS, FRANK H. Chemo-immunological studies on conjugated carbohydrate-proteins. IX. The specificity of antigens prepared by combining the *p*-aminophenol glycosides of disaccharides with protein. *Jour. Exp. Med.*, November 1, 1934, 60, pp. 599-617.

* Published in *Studies 91*.

‡ To be published in *Studies 93*.

† Published in *Studies 92*.

- †KIRK, ESSEN. The ability of nephritic patients to deaminize and form urea from ingested glycine. *Jour. Clin. Inv.*, January, 1935, **14**, pp. 136-141.
- †LANCIEFIELD, REBECCA C., and HARE, RONALD. The serological differentiation of pathogenic and non-pathogenic strains of hemolytic streptococci from parturient women. *Jour. Exp. Med.*, March 1, 1935, **61**, pp. 335-349.
- †MCEWEN, CURRIER. Cytologic studies on rheumatic fever. II. Cells of rheumatic exudates. *Jour. Clin. Inv.*, March, 1935, **14**, pp. 190-201.
- †MILLER, D. K., and RHOADS, C. P. The presence in egg-white and in a rice-polishings concentrate low in vitamin B₂(G) of an anti-pernicious anemia principle. *New England Jour. Med.*, November 15, 1934, **211**, pp. 921-924.
- and —. Absence of dietary anti-anemia substance in the diet causative of canine black tongue. *Proc. Soc. Exp. Biol. and Med.*, December, 1934, **32**, pp. 419-421.
- †— and —. The experimental production in dogs of acute stomatitis, associated with leucopenia and a maturation defect of the myeloid elements of the bone marrow. *Jour. Exp. Med.*, February 1, 1935, **61**, pp. 173-182.
- †— and —. The experimental production of loss of hematopoietic elements of the gastric secretion and of the liver in swine with achlorhydria and anemia. *Jour. Clin. Inv.*, March, 1935, **14**, pp. 153-172.
- †MIRSKY, A. E., and ANSON, M. L. Sulfhydryl and disulfide groups of proteins. I. Methods of estimation. *Jour. Gen. Physiol.*, January 20, 1935, **18**, pp. 307-323.
- †MOEN, JOHANNES K. The development of pure cultures of fibroblasts from single mononuclear cells. *Jour. Exp. Med.*, February 1, 1935, **61**, pp. 247-260.
- †PAGE, IRVINE H. The effect on renal efficiency of lowering arterial blood pressure in cases of essential hypertension and nephritis. *Jour. Clin. Inv.*, November, 1934, **13**, pp. 909-915.
- . The management of acute, chronic, and terminal Bright's disease. *Med. Clin. North America*, November, 1934, **18**, pp. 867-882.
- . Vascular action of fresh urine and extracts thereof. *Proc. Soc. Exp. Biol. and Med.*, November, 1934, **32**, pp. 302-304.
- †— . Pressor substances from the body fluids of man in health and disease. *Jour. Exp. Med.*, January 1, 1935, **61**, pp. 67-96.

† Published in *Studies 92*.

‡ To be published in *Studies 93*.

- †PAGE, IRVINE H. Observations on the depressor extracts of human blood and on the vascular action of extracts of rabbit and dog blood. *Jour. Exp. Med.*, January 1, 1935, **61**, pp. 97-102.
- †— . Acetyl- β -methylcholin (mecholin). Observations concerning its action on the blood pressure, skin temperature and the heart, as exhibited by the electrocardiogram of hypertensive patients. *Am. Jour. Med. Sc.*, January, 1935, **189**, pp. 55-64.
- †— . The alleged increase of sensitivity of vascular response to epinephrin following injection of plasma from nephritic patients. *Am. Jour. Med. Sc.*, March, 1935, **189**, pp. 371-374.
- . The biochemistry of the brain, in Harrow, B., and Sherwin, C. P., A textbook of biochemistry, Philadelphia and London, W. B. Saunders Company, 1935, pp. 727-746.
- †— and BERNHARD, WILLIAM G. Cholesterol-induced atherosclerosis. Its prevention in rabbits by the feeding of an organic iodine compound. *Arch. Path.*, April, 1935, **19**, pp. 530-536.
- †— and HEUER, GEORGE J. A surgical treatment of essential hypertension. *Jour. Clin. Inv.*, January, 1935, **14**, pp. 22-26.
- †— and — . The effect of renal denervation on the level of arterial blood pressure and renal function in essential hypertension. *Jour. Clin. Inv.*, January, 1935, **14**, pp. 27-30.
- †RHODAS, C. P., and MILLER, D. K. The association of *Bartonella* bodies with induced anemia in the dog. *Jour. Exp. Med.*, January 1, 1935, **61**, pp. 139-148.
- and — . Vitamin B₂(G) and canine black tongue. *Science*, February 8, 1935, **81**, p. 159.
- and — . Induced resistance to transmissible leukemia in mice. *Proc. Soc. Exp. Biol. and Med.*, March, 1935, **32**, pp. 817-819.
- †— , VAN SLYKE, DONALD D., HILLER, ALMA, and ALVING, ALF S. The effects of novocainization and total section of the nerves of the renal pedicle on renal blood flow and function. *Am. Jour. Physiol.*, December 1, 1934, **110**, pp. 392-398.
- RIVERS, THOMAS M. Los virus filtrables en general y el virus de la psitacosis en particular. *Actas y Trabajos del V. Cong. Nacional Med., Argentina*, September, 1934, **1**, pp. 441-467.
- . Filterable viruses with particular reference to psittacosis. *Harvey Lectures*, 1933-34, **29**, pp. 220-244.
- †— and BERRY, G. P. Diagnosis of psittacosis in man by means of injections of sputum into white mice. *Jour. Exp. Med.*, February 1, 1935, **61**, pp. 205-212.

† Published in *Studies 92*.

‡ To be published in *Studies 93*.

RIVERS, THOMAS M., and SCHWENTKER, FRANCIS F. Vaccination of laboratory workers against psittacosis. *Tr. Assn. Am. Physn.*, 1934, **49**, pp. 104-106.

*SCHWENTKER, FRANCIS F., and RIVERS, THOMAS M. The antibody response of rabbits to injections of emulsions and extracts of homologous brain. *Jour. Exp. Med.*, November 1, 1934, **60**, pp. 559-574.

†STEELE, J. MURRAY. Fever in heart failure. Relations between the temperatures of the interior and surface of the body. *Jour. Clin. Inv.*, November, 1934, **13**, pp. 869-893.

†— and KIRK, ESBEN. The significance of the vessels of the skin in essential hypertension. *Jour. Clin. Inv.*, November, 1934, **13**, pp. 895-899.

VAN SLYKE, DONALD D., PAGE, IRVINE H., KIRK, ESBEN, and FARR, L. E. Nature of nitrogenous constituents in petroleum ether extract of plasma. *Proc. Soc. Exp. Biol. and Med.*, March, 1935, **32**, pp. 837-838.

†—, RHOADS, C. P., HILLER, ALMA, and ALVING, ALF S. The relationship of the urea clearance to the renal blood flow. *Am. Jour. Physiol.*, December 1, 1934, **110**, pp. 387-391.

THE DEPARTMENT OF ANIMAL AND PLANT PATHOLOGY

Animal Pathology

BRUCE, WILLIAM F. Growth of bacteria in organic acid media. *Jour. Am. Chem. Soc.*, February, 1935, **57**, p. 382.

— A glass assembly for Seitz bacteriological filters. *Science*, February 15, 1935, **81**, p. 179.

‡GLASER, R. W., and CORIA, N. A. The culture and reactions of purified protozoa. *Am. Jour. Hyg.*, January, 1935, **21**, pp. 111-120.

GOWEN, JOHN W. The gene as a factor in pathology, in Cold Spring Harbor symposia on quantitative biology, Cold Spring Harbor, Long Island Biological Association, 1934, **2**, pp. 128-136.

GRAHAM, GEORGE L. *Capillaria* infestations in New Jersey pheasants. *Jour. Parasitol.*, February, 1935, **21**, pp. 61-62.

— *Giardia* infections in a nematode from cattle. *Jour. Parasitol.*, April, 1935, **21**, pp. 127-128.

†HURST, E. WESTON. Calcification in the brains of Equidae and of Bovidae. *Am. Jour. Path.*, November, 1934, **10**, pp. 795-798.

MERRILL, MALCOLM H., and TENBROECK, CARL. Multiplication of equine encephalomyelitis virus in mosquitoes. *Proc. Soc. Exp. Biol. and Med.*, December, 1934, **32**, pp. 421-423.

‡NELSON, JOHN B. Studies on an uncomplicated coryza of the domestic fowl. III. The effect of extranasal injection on the growth of the fowl coryza bacillus. *Jour. Exp. Med.*, March 1, 1935, **61**, pp. 351-359.

* Published in *Studies 91*.

‡ To be published in *Studies 93*.

† Published in *Studies 92*.

- ‡NELSON, JOHN B. Studies on an uncomplicated coryza of the domestic fowl. IV. Susceptibility after extranasal injection of the fowl coryza bacillus. *Jour. Exp. Med.*, March 1, 1935, **61**, pp. 361-367.
- . Uncomplicated fowl coryza. *Jour. Am. Vet. Med. Assn.*, March, 1935, **86**, n.s. 39, pp. 409-418.
- SHOPE, RICHARD E. Serial transmission of virus of infectious papillomatosis in domestic rabbits. *Proc. Soc. Exp. Biol. and Med.*, March, 1935, **32**, pp. 830-832.
- ‡TRAGER, WILLIAM. Cultivation of the virus of grasserie in silkworm tissue cultures. *Jour. Exp. Med.*, April 1, 1935, **61**, pp. 501-513.
- TRAUB, ERICH. A filterable virus recovered from white mice. *Science*, March 22, 1935, **81**, pp. 298-299.

Plant Pathology

- ‡CHESTER, KENNETH S. Specific quantitative neutralization of the viruses of tobacco mosaic, tobacco ring spot, and cucumber mosaic by immune sera. *Phytopathology*, November, 1934, **24**, pp. 1180-1202.
- KUNKEL, L. O. Recent advances in studies on plant virus diseases. *Ann. Rep. Quebec Soc. Protection Plants*, 1932-1934, **25-26**, pp. 23-33.
- . Possibilities in plant virus classification. *Bot. Rev.*, January, 1935, **1**, pp. 1-17.
- ‡OSBORN, H. T. Incubation period of pea mosaic in the aphid, *Macrosiphum pisi*. *Phytopathology*, February, 1935, **25**, pp. 160-177.
- ‡SPENCER, ERNEST L. Effect of nitrogen supply on host susceptibility to virus infection. *Phytopathology*, February, 1935, **25**, pp. 178-191.
- ‡STANLEY, W. M. Chemical studies on the virus of tobacco mosaic. II. The proteolytic action of pepsin. *Phytopathology*, November, 1934, **24**, pp. 1269-1289.

The papers marked *, †, ‡, and §, and all similar reports from the Institute, are ultimately assembled in a series of volumes entitled **Studies from The Rockefeller Institute for Medical Research**. The price is \$2.00 per volume. A special rate of \$1.00 per volume is made to those who subscribe to *The Journal of Experimental Medicine*, or *The Journal of General Physiology*.

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RESEARCH

MAY 1, 1935, TO NOVEMBER 1, 1935

THE DEPARTMENT OF THE LABORATORIES

Pathology and Bacteriology

BEARD, J. W. Conditions determining melanosis of a virus-induced rabbit papilloma (Shope). *Proc. Soc. Exp. Biol. and Med.*, May, 1935, **32**, pp. 1334-1336.

— and ROUS, PEYTON. Effectiveness of the Shope papilloma virus in various American rabbits. *Proc. Soc. Exp. Biol. and Med.*, October, 1935, **33**, pp. 191-193.

†CLAUDE, ALBERT. Spreading property of azoproteins in the dermis. *Jour. Exp. Med.*, August 1, 1935, **62**, pp. 229-244.

*DURAN-REYNALS, F. The extent of local dispersion of infectious agents as a factor in resistance to infection. *Jour. Exp. Med.*, May 1, 1935, **61**, pp. 617-642.

— . Reaction of spontaneous mouse carcinomas to blood-carried bacterial toxins. *Proc. Soc. Exp. Biol. and Med.*, June, 1935, **32**, pp. 1517-1521.

FLEXNER, SIMON. Address, Memorial Meeting in Honor of William Henry Welch, The University Club, Baltimore, May 22, 1934, pp. 21-29.

*GREENE, HARRY S. N. Rabbit pox. III. Report of an epidemic with especial reference to epidemiological factors. *Jour. Exp. Med.*, June 1, 1935, **61**, pp. 807-831.

†— . Rabbit pox. IV. Susceptibility as a function of constitutional factors. *Jour. Exp. Med.*, September 1, 1935, **62**, pp. 305-329.

KIDD, JOHN G., BEARD, J. W., and ROUS, PEYTON. Certain factors determining the course of virus-induced tumors. *Proc. Soc. Exp. Biol. and Med.*, October, 1935, **33**, pp. 193-195.

* Published in *Studies 94*.

† To be published in *Studies 95*.

- *LANDSTEINER, K., and JACOBS, JOHN. Studies on the sensitization of animals with simple chemical compounds. *Jour. Exp. Med.*, May 1, 1935, **61**, pp. 643-656.
- *MCMMASTER, PHILIP D., and HUDACK, STEPHEN S. The formation of agglutinins within lymph nodes. *Jour. Exp. Med.*, June 1, 1935, **61**, pp. 783-805.
- †PAUL, JOHN R., TRASK, JAMES D., and WEBSTER, LESLIE T. Isolation of poliomyelitis virus from the nasopharynx. *Jour. Exp. Med.*, August 1, 1935, **62**, pp. 245-257.
- RAKE, GEOFFREY. Enhancement of pathogenicity of human typhoid organisms by mucin. *Proc. Soc. Exp. Biol. and Med.*, June, 1935, **32**, pp. 1523-1524.
- *ROSAHN, PAUL D. A graphic method for representing the significance of the difference between means. *Human Biol.*, May, 1935, **7**, pp. 267-271.
- Serum phosphatase in normal young rabbits. *Proc. Soc. Exp. Biol. and Med.*, June, 1935, **32**, pp. 1601-1603.
- †— The influence of latent syphilitic infection on the reaction of the rabbit to the Brown-Pearce tumor. *Jour. Exp. Med.*, August 1, 1935, **62**, pp. 213-227.
- †— The infectivity of *Treponema pallidum* in excised syphilitic tissue. *Am. Jour. Hyg.*, September, 1935, **22**, pp. 283-291.
- and GREENE, HARRY S. N. Birth weight criterion of dwarfism in the rabbit. *Proc. Soc. Exp. Biol. and Med.*, June, 1935, **32**, pp. 1580-1583.
- †— and HU, CH'UAN-K'UEI. Rabbit pox. Report of an epidemic. *Jour. Exp. Med.*, September 1, 1935, **62**, pp. 331-347.
- ‡ROUS, PEYTON, and BEARD, J. W. The progression to carcinoma of virus-induced rabbit papillomas (Shope). *Jour. Exp. Med.*, October 1, 1935, **62**, pp. 523-548.
- *—, MCMMASTER, PHILIP D., and HUDACK, STEPHEN S. The fixation and protection of viruses by the cells of susceptible animals. *Jour. Exp. Med.*, May 1, 1935, **61**, pp. 657-688.
- *SCHERP, HENRY W., and RAKE, GEOFFREY. Studies on meningococcus infection. VIII. The Type I specific substance. *Jour. Exp. Med.*, June 1, 1935, **61**, pp. 753-769.
- §SCHMIDT, LOUIS. Direction of light, the dominant factor in the photography of bacterial colonies. *J. Biol. Photographic Assn.*, June, 1935, **3**, pp. 158-163.
- SMITHBURN, KENNETH C. Colony morphology of tubercle bacilli. II. Influence of pH of culture medium on colony morphology and virulence. *Proc. Soc. Exp. Biol. and Med.*, May, 1935, **32**, pp. 1336-1338.

* Published in *Studies 94*.

† To be published in *Studies 95*.

‡ To be published in *Studies 96*.

§ To be published in *Studies 97*.

- *SMITHBURN, KENNETH C., and SABIN, FLORENCE R. The cellular reactions to acetone-soluble fat from mycobacteria and streptococci. The effect of neutralization on the biological activity of the tuberculo-lipoid and of the phthioic acid derived from it. *Jour. Exp. Med.*, June 1, 1935, **61**, pp. 771-782.
- *THOMAS, R. M., and DURAN-REYNALS, F. The degree of dispersion of the bacillus as a factor in infection and resistance in experimental tuberculosis. *Jour. Exp. Med.*, July 1, 1935, **62**, pp. 39-64.
- VAN DER SCHUEREN, G. Effect of Walker rat sarcoma on growth of transplanted cancer. *Proc. Soc. Exp. Biol. and Med.*, June, 1935, **32**, pp. 1514-1517.
- . Inhibiting action of placenta extract on a transplantable malignant epithelioma of the rabbit. *Proc. Soc. Exp. Biol. and Med.*, June, 1935, **32**, pp. 1521-1522.

Chemistry

- *BERGMANN, MAX. Complex salts of amino acids and peptides. II. Determination of *l*-proline with the aid of rhodanic acid. The structure of gelatin. *Jour. Biol. Chem.*, July, 1935, **110**, pp. 471-479.
- †—, ZERVAS, LEONIDAS, and FRUTON, JOSEPH S. On proteolytic enzymes. VI. On the specificity of papain. *Jour. Biol. Chem.*, September, 1935, **111**, pp. 225-244.
- †—, —, and ROSS, WILLIAM F. On proteolytic enzymes. VII. The synthesis of peptides of *l*-lysine and their behavior with papain. *Jour. Biol. Chem.*, September, 1935, **111**, pp. 245-260.
- *LEVENE, P. A. The configurational relationships of the derivatives of methylbenzyl- and methylphenethyl-, methylheptyl- and methyl-octyl-acetic acids. *Jour. Biol. Chem.*, July, 1935, **110**, pp. 323-328.
- ‡— and COMPTON, JACK. *d*-Xylomethylose and derivatives. *Jour. Biol. Chem.*, October, 1935, **111**, pp. 325-333.
- ‡— and —. Crystalline *d*-gulomethylose and derivatives. *Jour. Biol. Chem.*, October, 1935, **111**, pp. 335-346.
- *— and MARKER, R. E. The configurational relationship of methylbenzylacetic to methylbenzylpropionic acid. *Jour. Biol. Chem.*, July, 1935, **110**, pp. 299-309.
- *— and —. The configurational relationship of acids of the phenethyl series to those of the normal series. *Jour. Biol. Chem.*, July, 1935, **110**, pp. 311-321.
- *— and —. The maximum rotations of configurationally related carboxylic acids containing a phenyl or a cyclohexyl group. *Jour. Biol. Chem.*, July, 1935, **110**, pp. 329-342.

* Published in *Studies 94*.

‡To be published in *Studies 96*.

† To be published in *Studies 95*.

- ‡LEVENE, P. A., and MARKER, R. E. The configurational relationship of acids of the isopropyl and isobutyl series to those of the normal series. *Jour. Biol. Chem.*, October, 1935, **111**, pp. 299-312.
- and ROTHEN, ALEXANDRE. Analysis of rotatory dispersion of chemically analogous substances. *Science*, June 21, 1935, **81**, pp. 623-624.
- *— and TIPSON, R. STUART. The ring structure of thymidine. *Jour. Biol. Chem.*, May, 1935, **109**, pp. 623-630.
- †— and —. Notiz über Borsäure-reaktion und die Struktur der Nucleinsäure. *Z. physiol. Chem.*, August 5, 1935, **234**, page v.
- ‡— and —. The partial synthesis of ribose nucleotides. II. Muscle inosinic acid. *Jour. Biol. Chem.*, October, 1935, **111**, pp. 313-323.

Chemical Pharmacology

- ELDERFIELD, ROBERT C. On cymarose. *Science*, May 3, 1935, **81**, pp. 440-441.
- ‡— . The structure and configuration of cymarose. *Jour. Biol. Chem.*, October, 1935, **111**, pp. 527-535.
- . The chemistry of the cardiac glycosides. *Chem. Rev.*, October, 1935, **17**, pp. 187-249.
- JACOBS, WALTER A., and CRAIG, LYMAN C. The hydrolysis of ergotinine and ergoclavine. *Jour. Am. Chem. Soc.*, May, 1935, **57**, pp. 960-961.
- *— and —. On an alkaloid from ergot. *Science*, July 5, 1935, **82**, pp. 16-17.
- *— and —. The ergot alkaloids. V. The hydrolysis of ergotinine. *Jour. Biol. Chem.*, July, 1935, **110**, pp. 521-530.
- ‡— and —. The ergot alkaloids. VI. Lysergic acid. *Jour. Biol. Chem.*, October, 1935, **111**, pp. 455-465.
- *— and SIMPSON, JAMES C. E. The digitalis saponin. *Jour. Biol. Chem.*, July, 1935, **110**, pp. 429-438.
- *SIMPSON, JAMES C. E., and JACOBS, WALTER A. Sarsasapogenin. II. *Jour. Biol. Chem.*, May, 1935, **109**, pp. 573-584.
- †— and —. Sarsasapogenin. III. Desoxysarsasapogenin. Further degradations of sarsasapogenin. *Jour. Biol. Chem.*, August, 1935, **110**, pp. 565-573.

Experimental Surgery

- BAKER, LILLIAN E. Effect of vitamin A on proliferation of fibroblasts. *Proc. Soc. Exp. Biol. and Med.*, October, 1935, **33**, pp. 124-126.

* Published in *Studies 94*.

‡ To be published in *Studies 96*.

† To be published in *Studies 95*.

- CARREL, ALEXIS. Man, the unknown. New York, Harper and Brothers, 1935, 346 pages. L'homme, cet inconnu. Paris, Librairie Plon, 1935, 400 pages.
- *— and LINDBERGH, CHARLES A. The culture of whole organs. *Science*, June 21, 1935, **81**, pp. 621-623.
- and —. La culture de glandes thyroïdes entières. *Compt. rend. Acad.*, July 1, 1935, **201**, pp. 14-16.
- and —. La culture de glandes thyroïdes entières. *Presse méd.*, August 17, 1935, **43**, p. 1302.
- †LINDBERGH, CHARLES A. An apparatus for the culture of whole organs. *Jour. Exp. Med.*, September 1, 1935, **62**, pp. 409-431.
- SANTESSON, LARS. Characteristics of epithelial mouse tumour cells *in vitro* and tumour structures *in vivo*. A comparative study. *Acta path. et microbiol. Scand.*, 1935, suppl. 24, 237 pages.

General Physiology

- ANSON, M. L. Crystalline carboxypolypeptidase. *Science*, May 10, 1935, **81**, pp. 467-468.
- *HILL, S. E., and OSTERHOUT, W. J. V. Mechanical restoration of irritability and of the potassium effect. *Jour. Gen. Physiol.*, May 20, 1935, **18**, pp. 687-694.
- §HOLTER, HEINZ, KUNITZ, M., and NORTHROP, JOHN H. Spaltung von Clupean durch verschiedene Trypsinpräparate. *Z. physiol. Chem.*, August 12, 1935, **235**, pp. 19-23.
- and NORTHROP, JOHN H. Activation of partially purified pepsinogen. *Proc. Soc. Exp. Biol. and Med.*, October, 1935, **33**, pp. 72-75.
- †JACQUES, A. G. The kinetics of penetration. X. Guanidine. *Proc. Nat. Acad. Sc.*, July, 1935, **21**, pp. 488-492.
- †— and OSTERHOUT, W. J. V. The kinetics of penetration. XI. Entrance of potassium into *Nitella*. *Jour. Gen. Physiol.*, July 20, 1935, **18**, pp. 967-985.
- *LAVIN, GEORGE I., and NORTHROP, JOHN H. The ultraviolet absorption spectrum of pepsin. *Jour. Am. Chem. Soc.*, May, 1935, **57**, pp. 874-875.
- NORTHROP, JOHN H. The chemistry of pepsin and trypsin. *Biol. Rev.*, July, 1935, **10**, pp. 263-282.
- †OSTERHOUT, W. J. V. Chemical restoration in *Nitella*. I. Ammonia and some of its compounds. *Jour. Gen. Physiol.*, July 20, 1935, **18**, pp. 987-995.

* Published in *Studies 94*.

§ To be published in *Studies 97*.

† To be published in *Studies 95*.

- *OSTERHOUT, W. J. V., and HILL, S. E. Restoration of the potassium effect by means of action currents. *Jour. Gen. Physiol.*, May 20, 1935, **18**, pp. 681-686.
- ‡— and KAMERLING, S. E. The accumulation of electrolytes. VIII. The accumulation of KCl in models. *Jour. Gen. Physiol.*, September 20, 1935, **19**, pp. 167-178.
- TEORELL, TORSTEN. On an arrangement for studying the conditions within diffusion layers. *Science*, May 17, 1935, **81**, p. 491.
- †—. "Duodenal regurgitation" versus "electrolyte diffusion" in the gastric juice. *Acta med. Scand.*, 1935, **85**, pp. 518-524.

Physical Chemistry

- *BJERRUM, JANNIK, and MICHAELIS, LEONOR. The oxidizing faculty of nitrogen oxide. *Jour. Am. Chem. Soc.*, July, 1935, **57**, pp. 1378-1379.
- *BROWN, ALFRED S., and MACINNES, D. A. The determination of activity coefficients from the potentials of concentration cells with transference. I. Sodium chloride at 25°. *Jour. Am. Chem. Soc.*, July, 1935, **57**, pp. 1356-1362.
- ‡GODDARD, DAVID R. The reversible heat activation inducing germination and increased respiration in the ascospores of *Neurospora tetrasperma*. *Jour. Gen. Physiol.*, September 20, 1935, **19**, pp. 45-60.
- †— and SCHUBERT, MAXWELL PHILIP. The action of iodoethyl alcohol on thiol compounds and on proteins. *Biochem. Jour.*, London, May, 1935, **29**, pp. 1009-1011.
- *LONGSWORTH, LEWIS G. The theory of diffusion in cell models. II. Solution of the steady state for three diffusing substances. *Jour. Gen. Physiol.*, May 20, 1935, **18**, pp. 627-642.
- *—. Transference numbers of aqueous solutions of some electrolytes at 25° by the moving boundary method. *Jour. Am. Chem. Soc.*, July, 1935, **57**, pp. 1185-1191.
- †—. The mobility of the hydrogen ion constituent in aqueous mixtures of hydrogen chloride and calcium chloride at 25°. *Jour. Am. Chem. Soc.*, September, 1935, **57**, pp. 1698-1700.
- *— and MACINNES, D. A. Bacterial growth with automatic pH control. (A) An apparatus. (B) Some tests on the acid production of *Lactobacillus acidophilus*. *Jour. Bact.*, June, 1935, **29**, pp. 595-607.
- †MACINNES, D. A., and BELCHER, DONALD. The thermodynamic ionization constants of carbonic acid at 38° from electromotive force measurements. *Jour. Am. Chem. Soc.*, September, 1935, **57**, pp. 1683-1685.

* Published in *Studies 94*.

‡ To be published in *Studies 96*.

† To be published in *Studies 95*.

- MICHAELIS, LEONOR. Semiquinones, the intermediate steps of reversible organic oxidation-reduction. *Chem. Rev.*, April, 1935, **16**, pp. 243-286.
- and SMYTHE, C. V. Influence of certain dye-stuffs on fermentation and respiration of yeast extract. *Proc. Soc. Exp. Biol. and Med.*, October, 1935, **33**, pp. 127-129.
- †RUNNSTRÖM, JOHN. An analysis of the action of lithium on sea urchin development. *Biol. Bull.*, June, 1935, **68**, pp. 378-384.
- *— and MICHAELIS, LEONOR. Correlation of oxidation and phosphorylation in hemolyzed blood in presence of methylene blue and pyocyanine. *Jour. Gen. Physiol.*, May 20, 1935, **18**, pp. 717-727.
- †SHEDLOVSKY, THEODORE, and MACINNES, D. A. The first ionization constant of carbonic acid, 0 to 38°, from conductance measurements. *Jour. Am. Chem. Soc.*, September, 1935, **57**, pp. 1705-1710.
- †WILBRANDT, W. The significance of the structure of a membrane for its selective permeability. *Jour. Gen. Physiol.*, July 20, 1935, **18**, pp. 933-965.

Biophysics

- PESTRECOV, K. On the structure of zinc hydroxide. *Z. Krist.*, October, 1935, **91**, p. 505.
- WYCKOFF, RALPH W. G. The structure of crystals. American Chemical Society Monograph Series, No. 19A, New York, Reinhold Publishing Corporation, 2nd edition, supplement, 1935, 240 pages.
- , COREY, ROBERT B., and BISCOE, J. X-ray reflections of long spacing from tendon. *Science*, August 23, 1935, **82**, pp. 175-176.

THE DEPARTMENT OF THE HOSPITAL

- ‡CASTLE, W. B., RHOADS, C. P., LAWSON, H. A., and PAYNE, G. C. Etiology and treatment of sprue. Observations on patients in Puerto Rico and subsequent experiments on animals. *Arch. Int. Med.*, October, 1935, **56**, pp. 627-699.
- †CHOW, BACON F., and GOEBEL, WALTHER F. The purification of the antibodies in Type I antipneumococcus serum, and the chemical nature of the type-specific precipitin reaction. *Jour. Exp. Med.*, August 1, 1935, **62**, pp. 179-202.
- †DUBOS, RENÉ. Studies on the mechanism of production of a specific bacterial enzyme which decomposes the capsular polysaccharide of Type III pneumococcus. *Jour. Exp. Med.*, August 1, 1935, **62**, pp. 259-269.

* Published in *Studies 94*.

‡ To be published in *Studies 96*.

† To be published in *Studies 95*.

- †DUBOS, RENÉ, and BAUER, JOHANNES H. The use of graded collodion membranes for the concentration of a bacterial enzyme capable of decomposing the capsular polysaccharide of Type III pneumococcus. *Jour. Exp. Med.*, August 1, 1935, **62**, pp. 271-279.
- FRANCIS, THOMAS, JR. Om Diagnose og Behandling af Pneumoni I de forenede Stater. *Ugesk. Laeger*, June 13, 1935, **97**, pp. 639-641.
- †— . Recent advances in the study of influenza. *Jour. Am. Med. Assn.*, July 27, 1935, **105**, pp. 251-254.
- †— and MAGILL, T. P. Rift Valley fever. A report of three cases of laboratory infection and the experimental transmission of the disease to ferrets. *Jour. Exp. Med.*, September 1, 1935, **62**, pp. 433-448.
- ‡— and — . Immunological studies with the virus of influenza. *Jour. Exp. Med.*, October 1, 1935, **62**, pp. 505-516.
- and — . Cultivation of human influenza virus in an artificial medium. *Science*, October 11, 1935, **82**, pp. 353-354.
- *GOEBEL, WALTHER F. Chemo-immunological studies on the soluble specific substance of pneumococcus. II. The chemical basis for the immunological relationship between the capsular polysaccharides of Types III and VIII pneumococcus. *Jour. Biol. Chem.*, July, 1935, **110**, pp. 391-398.
- †— and BABERS, FRANK H. Derivatives of glucuronic acid. V. The synthesis of glucuronides. *Jour. Biol. Chem.*, August, 1935, **110**, pp. 707-717.
- ‡— and — . Derivatives of glucuronic acid. VI. The preparation of α -chloro- and α -bromotriacetylglucuronic acid methyl ester, and the synthesis of β -glucuronides. *Jour. Biol. Chem.*, October, 1935, **111**, pp. 347-353.
- †GOODNER, KENNETH, and HORSFALL, FRANK L., JR. The protective action of Type I antipneumococcus serum in mice. I. The quantitative aspects of the mouse protection test. *Jour. Exp. Med.*, September 1, 1935, **62**, pp. 359-374.
- †— and MILLER, D. K. The protective action of Type I antipneumococcus serum in mice. II. The course of the infectious process. *Jour. Exp. Med.*, September 1, 1935, **62**, pp. 375-391.
- †— and — . The protective action of Type I antipneumococcus serum in mice. III. The significance of certain host factors. *Jour. Exp. Med.*, September 1, 1935, **62**, pp. 393-407.

* Published in *Studies 94*.

‡ To be published in *Studies 96*.

† To be published in *Studies 95*.

- HORSFALL, FRANK L., JR., and GOODNER, KENNETH. Relation of the phospholipins to the reactivity of antipneumococcus sera. *Proc. Soc. Exp. Biol. and Med.*, May, 1935, **32**, pp. 1329-1330.
- ‡— and —. Lipoids and immunological reactions. I. The relation of phospholipins to the type-specific reactions of antipneumococcus horse and rabbit sera. *Jour. Exp. Med.*, October 1, 1935, **62**, pp. 485-503.
- †HUGHES, THOMAS P., PARKER, ROBERT F., and RIVERS, THOMAS M. Immunological and chemical investigations of vaccine virus. II. Chemical analysis of elementary bodies of vaccinia. *Jour. Exp. Med.*, September 1, 1935, **62**, pp. 349-352.
- †MACKIE, T. T., MILLER, D. K., and RHOADS, C. P. Sprue: roentgenologic changes in the small intestine. *Am. Jour. Trop. Med.*, September, 1935, **15**, pp. 571-589.
- †MCEWEN, CURRIER, and SWIFT, HOMER F. Cutaneous reactivity of immune and hypersensitive rabbits to intradermal injections of homologous indifferent streptococcus and its fractions. *Jour. Exp. Med.*, October 1, 1935, **62**, pp. 573-587.
- †MILLER, D. K., and RHOADS, C. P. The reticulocyte response in guinea pigs following the oral administration of certain anti-anemic substances. *New England Jour. Med.*, July 18, 1935, **213**, pp. 99-101.
- *PAGE, IRVINE H. The relationship of the extrinsic renal nerves to the origin of experimental hypertension. *Am. Jour. Physiol.*, May, 1935, **112**, pp. 166-171.
- *— . A syndrome simulating diencephalic stimulation occurring in patients with essential hypertension. *Am. Jour. Med. Sc.*, July, 1935, **190**, pp. 9-14.
- *— and HEUER, GEORGE J. The effect of renal denervation on patients suffering from nephritis. *Jour. Clin. Inv.*, July, 1935, **14**, pp. 443-458.
- *PARKER, ROBERT F., and RIVERS, THOMAS M. Immunological and chemical investigations of vaccine virus. I. Preparation of elementary bodies of vaccinia. *Jour. Exp. Med.*, July 1, 1935, **62**, pp. 65-72.
- †PITTMAN, MARGARET. The interrelation of the amount of V-factor and the amount of air necessary for growth of *Hemophilus influenzae* Type b in certain media. *Jour. Bact.*, August, 1935, **30**, pp. 149-161.
- ‡— and GOODNER, KENNETH. Complement-fixation with the type-specific carbohydrate of *Hemophilus influenzae* Type b. *Jour. Immunol.*, September, 1935, **29**, pp. 239-247.

* Published in *Studies 94*.

‡ To be published in *Studies 96*.

† To be published in *Studies 95*.

- RIVERS, THOMAS M. Pathologic and immunologic problems in the virus field. *Am. Jour. Med. Sc.*, October, 1935, **190**, pp. 435-445.
- *— and SCHWENTKER, FRANCIS F. Encephalomyelitis accompanied by myelin destruction experimentally produced in monkeys. *Jour. Exp. Med.*, May 1, 1935, **61**, pp. 689-702.
- and SCOTT, T. F. McNAIR. Meningitis in man caused by a filterable virus. *Science*, May 3, 1935, **81**, pp. 439-440.
- †— and WARD, S. M. Jennerian prophylaxis by means of intradermal injections of culture vaccine virus. *Jour. Exp. Med.*, October 1, 1935, **62**, pp. 549-560.
- †STEELE, J. MURRAY. Modification of the alcohol check lamp method of testing a respiratory system. *Jour. Scient. Instruments*, August, 1935, **12**, pp. 259-260.
- †SWIFT, HOMER F., LANCEFIELD, REBECCA C., and GOODNER, KENNETH. The serologic classification of hemolytic streptococci in relation to epidemiologic problems. *Am. Jour. Med. Sc.*, October, 1935, **190**, pp. 445-453.
- VAN SLYKE, D. D. L'équilibre acide-base et la formule d'Henderson. *Bull. Soc. chim. biol.*, July-August, 1935, **17**, pp. 1184-1186.

THE DEPARTMENT OF ANIMAL AND PLANT PATHOLOGY

Animal Pathology

- †BRUCE, WILLIAM F. A preheater in the microanalytic determination of carbon and hydrogen. *Mikrochemie*, 1935, **18**, pp. 103-105.
- †—. The analysis of small volumes of gas by means of the usual microanalytical apparatus. *Mikrochemie*, 1935, **18**, pp. 261-265.
- †—. Some relationships between molecular structure, pH and the ability of bacteria to grow in solutions of salts of organic acids. *Jour. Am. Chem. Soc.*, August, 1935, **57**, pp. 1495-1503.
- †—. A study of isocitric acid from blackberries. *Jour. Am. Chem. Soc.*, September, 1935, **57**, pp. 1725-1729.
- CARLILE, JULIAN A. A method of size control when making lantern slides with the Eastman autofocus enlarger with reducing attachment. *J. Biol. Photographic Assn.*, June, 1935, **3**, pp. 164-165.
- †GLASER, R. W., and CORIA, N. A. The partial purification of *Balantidium coli* from swine. *Jour. Parasitol.*, June, 1935, **21**, pp. 190-193.
- †— and —. Purification and culture of *Tritrichomonas foetus* (Riedmüller) from cows. *Am. Jour. Hyg.*, July, 1935, **22**, pp. 221-226.

* Published in *Studies 94*.

† To be published in *Studies 96*.

† To be published in *Studies 95*.

- §GLASER, R. W., and FARRELL, C. C. Field experiments with the Japanese beetle and its nematode parasite. With a statistical analysis by J. W. Gowen. *Jour. New York Entomol. Soc.*, September, 1935, **43**, pp. 345-371.
- GOWEN, JOHN W. Genetic constitution as a factor in disease. *Sigma Xi Quart.*, September, 1935, **23**, pp. 103-117.
- ‡JONES, F. S., and LITTLE, RALPH B. Bovine mastitis. 12th International Veterinary Congress, New York, 1934, **2**, pp. 563-579.
- NELSON, JOHN B. Cocco-bacilliform bodies associated with an infectious fowl coryza. *Science*, July 12, 1935, **82**, pp. 43-44.
- ‡SARLES, MERRITT P., and STOLL, NORMAN R. On the resistance of the cat to superimposed infection with the ascarid, *Toxocara cati*. *Jour. Parasitol.*, August, 1935, **21**, pp. 277-291.
- †SEASTONE, C. V. Pathogenic organisms of the genus *Listerella*. *Jour. Exp. Med.*, August 1, 1935, **62**, pp. 203-212.
- *SHOPE, RICHARD E. Experiments on the epidemiology of pseudorabies. I. Mode of transmission of the disease in swine and their possible rôle in its spread to cattle. *Jour. Exp. Med.*, July 1, 1935, **62**, pp. 85-99.
- *——. Experiments on the epidemiology of pseudorabies. II. Prevalence of the disease among middle western swine and the possible rôle of rats in herd-to-herd infections. *Jour. Exp. Med.*, July 1, 1935, **62**, pp. 101-117.
- †——. The infection of mice with swine influenza virus. *Jour. Exp. Med.*, October 1, 1935, **62**, pp. 561-572.
- *STOLL, NORMAN R. Tapeworm studies. I. Restricted pasture sources of *Moniezia* infection in sheep. *Am. Jour. Hyg.*, May, 1935, **21**, pp. 628-646.
- †TRAGER, WILLIAM. The culture of mosquito larvae free from living microorganisms. *Am. Jour. Hyg.*, July, 1935, **22**, pp. 18-25.
- †——. On the nutritional requirements of mosquito larvae (*Aedes aegypti*). *Am. Jour. Hyg.*, September, 1935, **22**, pp. 475-493.
- †——. The relation of cell size to growth in insect larvae. *Jour. Exp. Zool.*, October 5, 1935, **71**, pp. 489-508.
- *TRAUB, ERICH. Multiplication *in vitro* of pseudorabies virus in the testicle tissue of immunized guinea pigs. *Jour. Exp. Med.*, June 1, 1935, **61**, pp. 833-838.
- and TENBROECK, CARL. Protective vaccination of horses with modified equine encephalomyelitis virus. *Science*, June 7, 1935, **81**, p. 572.

* Published in *Studies 94*.

† To be published in *Studies 95*.

‡ To be published in *Studies 96*.

§ To be published in *Studies 97*.

Plant Pathology

- CHESTER, KENNETH STARR. A serological estimate of the absolute concentration of tobacco mosaic virus. *Science*, July 5, 1935, **82**, p. 17.
- †— . Serological evidence in plant-virus classification. *Phytopathology*, July, 1935, **25**, pp. 686-701.
- †— . The antigenicity of the plant viruses. *Phytopathology*, July, 1935, **25**, pp. 702-714.
- ‡HOLMES, FRANCIS O. Method of chain formation in *Herpetomonas bancrofti*. *Parasitology*, July, 1935, **27**, pp. 394-398.
- ‡PRICE, W. C. Acquired immunity from cucumber mosaic in zinnia. *Phytopathology*, August, 1935, **25**, pp. 776-789.
- ‡— . Classification of southern celery-mosaic virus. *Phytopathology*, October, 1935, **25**, pp. 947-954.
- *SPENCER, ERNEST L. Influence of phosphorus and potassium supply on host susceptibility to yellow tobacco mosaic infection. *Phytopathology*, May, 1935, **25**, pp. 493-502.
- *STANLEY, W. M. Chemical studies on the virus of tobacco mosaic. III. Rates of inactivation at different hydrogen-ion concentrations. *Phytopathology*, May, 1935, **25**, pp. 475-492.
- *— . Isolation of a crystalline protein possessing the properties of tobacco-mosaic virus. *Science*, June 28, 1935, **81**, pp. 644-645.
- ‡— . Chemical studies on the virus of tobacco mosaic. IV. Some effects of different chemical agents on infectivity. *Phytopathology*, October, 1935, **25**, pp. 899-921.
- ‡— . Chemical studies on the virus of tobacco mosaic. V. Determination of optimum hydrogen-ion concentrations for purification by precipitation with lead acetate. *Phytopathology*, October, 1935, **25**, pp. 922-930.
- *THORNBERRY, H. H. Quantitative studies on the filtration of tobacco-mosaic virus. *Phytopathology*, June, 1935, **25**, pp. 601-617.
- *— . Effect of phosphate buffers on infectivity of tobacco-mosaic virus. *Phytopathology*, June, 1935, **25**, pp. 618-627.
- ‡— . Effect of tannic acid on the infectivity of tobacco-mosaic virus. *Phytopathology*, October, 1935, **25**, pp. 931-937.
- ‡— . Particle diameter of certain plant viruses and *Phytomonas pruni* bacteriophage. *Phytopathology*, October, 1935, **25**, pp. 938-946.

* Published in *Studies 94*.

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