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INSTITUTE FOR MEDICAL
RESEARCH.

NOVEMBER 1, 1928, TO MAY 1, 1929.

THE DEPARTMENT OF THE GENERAL LABORATORIES.

Pathology and Bacteriology.

- *BROWN, WADE H. Calcium and inorganic phosphorus in the blood of rabbits. IV. Influence of light environment on normal rabbits. *Jour. Exp. Med.*, January 1, 1929, xlix, pp. 103-126.
- COWDRY, E. V. Special methods, in McClung, C. E., Handbook of microscopical technique, New York, 1929, pp. 198-209.
- †DOAN, C. A., SABIN, FLORENCE R., and FORKNER, CLAUDE E. An experimental study of the influence of ferromagnetic cubic and paramagnetic amorphous iron oxid on the blood. (In simple anemia and in the normal.) *Am. Jour. Med. Sc.*, February, 1929, clxxvii, pp. 201-208.
- FLEXNER, SIMON. Serum protection and serum treatment of poliomyelitis (abstract). *Bull. New York Acad. Med.*, March, 1929, v, series 2, pp. 252-258.
- †FORKNER, CLAUDE E. Material from lymph nodes. IV. The heterology of lymphoid tissue with special reference to the monocyte—supravital studies. *Jour. Exp. Med.*, February 1, 1929, xlix, pp. 323-345.
- GATES, FREDERICK L. On nuclear derivatives and the lethal action of ultra-violet light. *Science*, November 16, 1928, lxviii, pp. 479-480.
- †HARNES, ALVIN R. Biometry of calcium, inorganic phosphorus, cholesterol, and lipid phosphorus in the blood of rabbits. II. Repeated observations on normal animals. *Jour. Exp. Med.*, February 1, 1929, xlix, pp. 287-301.
- . The inverse relation between inorganic and lipid phosphorus in blood of rabbits. *Proc. Soc. Exp. Biol. and Med.*, February 20, 1929, xxvi, pp. 360-362.

* To be published in *Studies LXIX*.

† To be published in *Studies LXX*.

- *LANDSTEINER, K. Cell antigens and individual specificity. *Jour. Immunol.*, November, 1928, xv, pp. 589-600.
- . On hemagglutination by tumor extracts. *Proc. Soc. Exp. Biol. and Med.*, November 21, 1928, xxvi, pp. 134-135.
- *— and LEVINE, PHILIP. On the inheritance of agglutinogens of human blood demonstrable by immune agglutinins. *Jour. Exp. Med.*, November 1, 1928, xlviii, pp. 731-749.
- LONG, PERRIN H., and OLITSKY, PETER K. Dissociation of neutral vaccine virus-immune serum mixtures. *Science*, January 18, 1929, lxix, p. 72.
- and — . Comparison of resistance of streptococci and of poliomyelitic virus in glycerol. *Proc. Soc. Exp. Biol. and Med.*, January 16, 1929, xxvi, p. 337.
- McMASTER, P. D., and DRURY, D. R. The source of fibrinogen. *Proc. Soc. Exp. Biol. and Med.*, March 20, 1929, xxvi, pp. 490-491.
- *MUCKENFUSS, RALPH S. Studies on the bacteriophage of d'Herelle. XI. An inquiry into the mode of action of antibacteriophage serum. *Jour. Exp. Med.*, November 1, 1928, xlviii, pp. 709-722.
- *— . Studies on the bacteriophage of d'Herelle. XII. Concerning the production of phage from bacterial cultures. *Jour. Exp. Med.*, November 1, 1928, xlviii, pp. 723-729.
- *NOGUCHI, HIDEYO. Etiology of Oroya fever. XIII. Chemotherapy in experimental *Bartonella bacilliformis* infection. *Jour. Exp. Med.*, November 1, 1928, xlviii, pp. 619-625.
- *— , SHANNON, RAYMOND C., TILDEN, EVELYN B., and TYLER, JOSEPH R. Phlebotomus and Oroya fever and verruga peruana. *Science*, November 23, 1928, lxviii, pp. 493-495.
- OLITSKY, PETER K., and LONG, PERRIN H. Isolation by cataphoresis of virus from vaccinia-recovered rabbits. *Science*, February 8, 1929, lxix, p. 170.
- †RHODES, C. P. Survival of the virus of poliomyelitis for eight years in glycerol. *Jour. Exp. Med.*, April 1, 1929, xlix, pp. 701-704.
- †ROUS, PEYTON, and DRURY, DOUGLAS R. Outlying acidosis due to functional ischemia. *Jour. Exp. Med.*, March 1, 1929, xlix, pp. 435-460.
- and GILDING, H. P. The meaning of Bier's spots. *Proc. Soc. Exp. Biol. and Med.*, March 20, 1929, xxvi, pp. 497-498.
- SABIN, FLORENCE R. Chemical agents: supravital stains, in McClung, C. E., Handbook of microscopical technique, New York, 1929, pp. 81-87.

* To be published in *Studies LXIX*.

† To be published in *Studies LXX*.

*SABIN, FLORENCE R., DOAN, C. A., and FORKNER, CLAUDE E. Biological reactions to the chemical fractions from human tubercle bacilli. II. The identification of a specific maturation factor for monocytes and epithelioid cells, and an analysis of the rôle of the monocyte in the resistance to tuberculosis. *Tr. 24th Ann. Meeting Nat. Tuberc. Assn.* 1928, xxiv, pp. 253-258.

†SCOTT, GORDON H. Studies on the submaxillary virus of guinea pigs. I. The effect of duct ligation and pilocarpine administration upon the cellular response to the virus. *Jour. Exp. Med.*, February 1, 1929, xlix, pp. 229-236.

Biophysics.

HAWKINS, JAMES A. Effect of drying on certain of the virus group. *Proc. Soc. Exp. Biol. and Med.*, March 20, 1929, xxvi, pp. 479-480.

— . Resistance of causative agent of chicken tumor to certain organic solvents compared with vaccinia virus and *Herpes febrilis* virus. *Proc. Soc. Exp. Biol. and Med.*, March 20, 1929, xxvi, pp. 480-482.

†LYNCH, CLARA J. The somatic variability of spontaneous tumors. *Jour. Cancer Research*, December, 1928, xii, pp. 318-325.

WYCKOFF, RALPH W. G. Determination of crystal structure by x-rays. Annual survey of American chemistry (July 1, 1927, to July 1, 1928), New York, 1928, iii, pp. 58-62.

†— and COREY, ROBERT B. The crystal structure of trimethyl ethyl ammonium chlorostannate. *Am. Jour. Sc.*, March, 1929, xvii, series 5, pp. 239-244.

Chemistry.

BAUDISCH, OSKAR. Die derzeitigen Pharmakologischen Grundlagen einer rationellen Eisentherapie. Bemerkungen zu dem Aufsatz von E. Starkenstein in *Klin. Woch.*, April 29, 1928, vii, pp. 846-847. *Klin. Woch.*, November 25, 1928, vii, p. 2297.

LEVENE, P. A. Nucleoproteine, Nucleinsäuren, Nucleinbasen, in Oppenheimer, Carl, Die Fermente und ihre Wirkungen, Leipsic, 1929, iii, pp. 360-389.

— . Phosphatide, in Oppenheimer, Carl, Die Fermente und ihre Wirkungen, Leipsic, 1929, iii, pp. 390-405.

— . Nucleasen, in Oppenheimer, Carl, Die Fermente und ihre Wirkungen, Leipsic, 1929, iii, pp. 933-935.

— . Purinamidasen, in Oppenheimer, Carl, Die Fermente und ihre Wirkungen, Leipsic, 1929, iii, pp. 946-947.

* To be published in *Studies LXIX.*

† To be published in *Studies LXX.*

- LEVENE, P. A. Purindehydrasen, in Oppenheimer, Carl, *Die Fermente und ihre Wirkungen*, Leipsic, 1929, iii, pp. 1349-1352.
- and BASS, LAWRENCE W. Nucleic acids. Annual survey of American chemistry (July 1, 1927, to July 1, 1928), New York, 1928, iii, pp. 173-180.
- † — and —. Studies on racemization. VIII. The action of alkali on proteins: racemization and hydrolysis. *Jour. Biol. Chem.*, April, 1929, lxxxii, pp. 171-190.
- † —, —, ROTHEN, ALEXANDRE, and STEIGER, ROBERT E. The effect of ionization upon optical rotation. IV. Further studies on amino acids and peptides. *Jour. Biol. Chem.*, March, 1929, lxxxii, pp. 687-695.
- * —, —, and STEIGER, ROBERT E. The relation of chemical structure to the rate of hydrolysis of peptides. IV. Enzyme hydrolysis of dipeptides. *Jour. Biol. Chem.*, January, 1929, lxxxii, pp. 221-230.
- † —, —, and —. The relation of chemical structure to the rate of hydrolysis of ketopiperazines. I. Hydrolysis of *N*-methylketopiperazines by alkali. *Jour. Biol. Chem.*, March, 1929, lxxxii, pp. 697-702.
- † —, —, and —. The relation of chemical structure to the rate of hydrolysis of peptides. VI. Hydrolysis of dipeptides by alkali. *Jour. Biol. Chem.*, April, 1929, lxxxii, pp. 167-170.
- and HALLER, H. L. On the configurational relationship of 3-chlorobutyric and 3-hydroxybutyric acids. *Science*, January 11, 1929, lxix, p. 47.
- † — and —. On the configurational relationship of 3-hydroxybutyric and 3-chlorobutyric acids. With a further note on the configurational relationship of 3-hydroxybutyric acid and methylpropyl carbinol. *Jour. Biol. Chem.*, February, 1929, lxxxii, pp. 425-433.
- † — and —. On the configurational relationship of lactic acid and 2-chloropropionic acid. With a further note on the configurational relationship of lactic acid and methylpropyl carbinol. *Jour. Biol. Chem.*, March, 1929, lxxxii, pp. 703-709.
- † — and JORPES, ERIK. The rate of hydrolysis of ribonucleotides. *Jour. Biol. Chem.*, March, 1929, lxxxii, pp. 575-580.
- and LONDON, E. S. On the structure of thymonucleic acid. *Science*, December 7, 1928, lxxviii, pp. 572-573.
- † — and —. Guaninedesoxypentoside from thymus nucleic acid. *Jour. Biol. Chem.*, March, 1929, lxxxii, pp. 711-712.
- * — and MORI, T. On inosinic acid. IV. The structure of the ribophosphoric acid. *Jour. Biol. Chem.*, January, 1929, lxxxii, pp. 215-219.

* To be published in *Studies LXIX*.

† To be published in *Studies LXX*.

- *LEVENE, P. A., and RAYMOND, ALBERT L. Hexosediphosphate. *Jour. Biol. Chem.*, December, 1928, lxxx, pp. 633-638.
- †— and —. Hexosemonophosphate (Robison). *Jour. Biol. Chem.*, February, 1929, lxxxi, pp. 279-283.
- †—, —, and WALTI, A. A new case of Walden inversion in the hexose series. *Jour. Biol. Chem.*, April, 1929, lxxxii, pp. 191-195.
- †— and ROTHEN, ALEXANDRE. Reactivity of some carbinols. With a note on Walden inversion. *Jour. Biol. Chem.*, February, 1929, lxxxii, pp. 359-368.
- †—, STEIGER, ROBERT E., and BASS, LAWRENCE W. The relation of chemical structure to the rate of hydrolysis of peptides. V. Enzyme hydrolysis of dipeptides. *Jour. Biol. Chem.*, April, 1929, lxxxii, pp. 155-166.
- *— and TAYLOR, F. A. On cerebronic acid. VI. *Jour. Biol. Chem.*, November, 1928, lxxx, pp. 227-230.
- *RAYMOND, ALBERT L., and BLANCO, J. G. Blood sugar determination and separation of sugars with live yeast. A correction. *Jour. Biol. Chem.*, December, 1928, lxxx, p. 631.
- *TAYLOR, F. A., and LEVENE, P. A. Oxidation of lignoceric acid. *Jour. Biol. Chem.*, December, 1928, lxxx, pp. 609-613.

Chemical Pharmacology.

- †JACOBS, WALTER A., and HEIDELBERGER, MICHAEL. Sarmenocymarin and sarmenotegenin. *Jour. Biol. Chem.*, March, 1929, lxxxi, pp. 765-779.

Experimental Surgery.

- BAKER, LILLIAN E. The action of glutathione and hemoglobin on the growth of fibroblasts *in vitro*. *Science*, November 9, 1928, lxviii, pp. 459-461.
- †—. The chemical nature of the substances required for cell multiplication. II. Action of glutathione, hemoglobin, and ash of liver on the growth of fibroblasts. *Jour. Exp. Med.*, February 1, 1929, xlix, pp. 163-182.
- CARREL, ALEXIS. The mechanism of senescence (abstract). *Bull. New York Acad. Med.*, November, 1928, iv, series 2, pp. 1144-1146.
- *DU NOÛY, P. LECOMTE. The viscosity of blood serum, as a function of temperature. *Jour. Gen. Physiol.*, January 20, 1929, xii, pp. 363-367.

* To be published in *Studies LXIX*.

† To be published in *Studies LXX*.

General Physiology.

- ANSON, M. L., and MIRSKY, A. E. The heme compounds in nature and biological oxidations. *Science*, December 28, 1928, lxviii, pp. 647-648.
- *BLINKS, L. R. The injection of sulfates into *Valonia*. *Jour. Gen. Physiol.*, November 20, 1928, xii, pp. 207-208.
- . Comparison of resistance changes in collodion membranes and cells. *Proc. Soc. Exp. Biol. and Med.*, February 20, 1929, xxvi, pp. 359-360.
- *COOPER, W. C., JR., DORCAS, M. J., and OSTERHOUT, W. J. V. The penetration of strong electrolytes. *Jour. Gen. Physiol.*, January 20, 1929, xii, pp. 427-433.
- IRWIN, MARIAN. Predicting penetration of dyes into living cells by means of an artificial system. *Proc. Soc. Exp. Biol. and Med.*, November 21, 1928, xxvi, pp. 125-127.
- . Penetration of alkaloids into vacuoles of living cells. *Proc. Soc. Exp. Biol. and Med.*, November 21, 1928, xxvi, pp. 135-136.
- *———. Spectrophotometric studies of penetration. V. Resemblances between the living cell and an artificial system in absorbing methylene blue and trimethyl thionine. *Jour. Gen. Physiol.*, January 20, 1929, xii, pp. 407-418.
- *JACQUES, A. G., and OSTERHOUT, W. J. V. Internal versus external toxicity in *Valonia*. *Jour. Gen. Physiol.*, November 20, 1928, xii, pp. 209-219.
- *KUNITZ, M. Syneresis and swelling of gelatin. *Jour. Gen. Physiol.*, November 20, 1928, xii, pp. 289-312.
- *——— and NORTHROP, JOHN H. Fractionation of gelatin. *Jour. Gen. Physiol.*, January 20, 1929, xii, pp. 379-390.
- *MACINNES, DUNCAN A., and COWPERTHWAIT, IRVING A. The effect of diffusion at a moving boundary between 2 solutions of electrolytes. *Proc. Nat. Acad. Sc.*, January, 1929, xv, pp. 18-21.
- †——— and DOLE, MALCOLM. Differential potentiometric titration. III. An improved apparatus and its application to precision measurements. *Jour. Am. Chem. Soc.*, April, 1929, li, pp. 1119-1127.
- †——— and ———. Tests of a new type of glass electrode. *Ind. and Eng. Chem., Analytical Edition*, April 15, 1929, i, No. 2, pp. 57-59.
- *NORTHROP, JOHN H. The permeability of dry collodion membranes. II. *Jour. Gen. Physiol.*, January 20, 1929, xii, pp. 435-461.
- †———. Chemical and physical changes in gelatin solutions during hydrolysis. *Jour. Gen. Physiol.*, March 20, 1929, xii, pp. 529-535.
- †——— and ANSON, M. L. A method for the determination of diffusion

* To be published in *Studies LXIX*.

† To be published in *Studies LXX*.

- constants and the calculation of the radius and weight of the hemoglobin molecule. *Jour. Gen. Physiol.*, March 20, 1929, xii, pp. 543-554.
- †NORTHROP, JOHN H., and KUNITZ, M. The swelling of gelatin and the volume of surrounding solution. *Jour. Gen. Physiol.*, March 20, 1929, xii, pp. 537-542.
- *— and SIMMS, HENRY S. The effect of the hydrogen ion concentration on the rate of hydrolysis of glycyl glycine, glycyl leucine, glycyl alanine, glycyl asparagine, glycyl aspartic acid, and biuret base by erepsin. *Jour. Gen. Physiol.*, November 20, 1928, xii, pp. 313-328.
- OSTERHOUT, W. J. V. Note on the penetration of electrolytes. *Proc. Soc. Exp. Biol. and Med.*, December 19, 1928, xxvi, pp. 192-197.
- and HARRIS, E. S. Reversible changes in living protoplasm. *Proc. Soc. Exp. Biol. and Med.*, November 21, 1928, xxvi, pp. 124-125.
- *— and —. The death wave in *Nitella*. II. Applications of unlike solutions. *Jour. Gen. Physiol.*, January 20, 1929, xii, pp. 355-361.

THE DEPARTMENT OF THE HOSPITAL.

- ABELOOS, M., BARCROFT, J., CORDERO, N., HARRISON, T. R., and SENDROY, JULIUS, JR. The measurement of the oxygen capacity of hæmoglobin. *Jour. Physiol.*, November 9, 1928, lxvi, pp. 262-266.
- †AVERY, OSWALD T., and TILLET, WILLIAM S. Anaphylaxis with the type-specific carbohydrates of *Pneumococcus*. *Jour. Exp. Med.*, February 1, 1929, xlix, pp. 251-266.
- †BINGER, CARL A. L., CHRISTIE, RONALD V., DAVIS, JOHN STAIGE, JR., and HILLER, ALMA. Blood chlorides in conditions associated with pneumonia. *Jour. Exp. Med.*, April 1, 1929, xlix, pp. 603-614.
- †CHRISTIE, RONALD V., and LOOMIS, ALFRED L. The relation of frequency to the physiological effects of ultra-high frequency currents. *Jour. Exp. Med.*, February 1, 1929, xlix, pp. 303-321.
- COHN, ALFRED E. Physiology and medicine. *Science*, November 23, 1928, lxviii, pp. 511-512.
- . The aging of the heart muscle regarded from a general biological point of view (abstract). *Bull. New York Acad. Med.*, November, 1928, iv, series 2, pp. 1147-1148.
- . The development of the Harveian circulation. *Ann. Med. History*, January, 1929, i, n.s., pp. 16-36.
- *— and MIRSKY, A. E. Physiological ontogeny. A. Chicken embryos. XIV. The hydrogen ion concentration of the blood of chicken embryos as a function of time. *Jour. Gen. Physiol.*, January 20, 1929, xii, pp. 463-468.

* To be published in *Studies LXIX*.

† To be published in *Studies LXX*.

- *SWIFT, HOMER F., DERICK, C. L., and HITCHCOCK, C. H. Rheumatic fever as a manifestation of hypersensitiveness (allergy or hyperergy) to streptococci. *Tr. Assn. Am. Phys.*, 1928, xliii, pp. 192-202.
- *—, WILSON, MAY G., and TODD, E. W. Skin reactions of patients with rheumatic fever to toxic filtrates of streptococcus. *Am. Jour. Dis. Child.*, January, 1929, xxxvii, pp. 98-111.
- *TILLET, WILLIAM S. Active and passive immunity to pneumococcus infection induced in rabbits by immunization with R pneumococci. *Jour. Exp. Med.*, December 1, 1928, xlviii, pp. 791-804.
- *TODD, E. W., and LANCEFIELD, R. C. Variants of hemolytic streptococci; their relation to type-specific substance, virulence, and toxin. *Jour. Exp. Med.*, December 1, 1928, xlviii, pp. 751-767.
- VAN SLYKE, DONALD D. Biochemistry. Annual survey of American chemistry (July 1, 1927, to July 1, 1928), New York, 1928, iii, pp. 181-195.
- . The 1928 Silliman lectures. *Science*, February 8, 1929, lxix, p. 163.

THE DEPARTMENT OF ANIMAL PATHOLOGY.

- †GOWEN, JOHN W. The cell division at which crossing-over takes place. *Proc. Nat. Acad. Sc.*, March, 1929, xv, pp. 266-268.
- *HORVATH, A. A. The effect of yeast feeding on some blood constituents of hens. *Am. Jour. Physiol.*, November 1, 1928, lxxxvii, pp. 208-219.
- LEWIS, PAUL A., and SHOPE, RICHARD E. The study of the cells of the blood as an aid to the diagnosis of hog cholera. *Jour. Am. Vet. Med. Assn.* January, 1929, lxxiv, n.s. xxvii, pp. 145-152.
- *NELSON, JOHN B. Studies on a paratyphoid infection in guinea pigs. V. The incidence of carriers during the endemic stage. *Jour. Exp. Med.*, November 1, 1928, xlviii, pp. 647-658.
- *— . Observations on flagellar and somatic agglutination. *Jour. Exp. Med.*, December 1, 1928, xlviii, pp. 811-824.
- *— . The removal of agglutinin from sensitized motile bacteria. *Jour. Exp. Med.*, December 1, 1928, xlviii, pp. 825-836.
- *SHOPE, RICHARD E. Differences in serum and plasma content of cholesterol ester. *Jour. Biol. Chem.*, November, 1928, lxxx, pp. 125-126.
- *— . Cholesterol esterase in animal tissues. *Jour. Biol. Chem.*, November, 1928, lxxx, pp. 127-132.
- *— . The hypercholesterolemia of fasting as influenced by the separate administration of fats, carbohydrates, and proteins. *Jour. Biol. Chem.*, November, 1928, lxxx, pp. 133-140.

* To be published in *Studies LXIX*.

† To be published in *Studies LXX*.

- *SHOPE, RICHARD E. The effect of age on the total and combined cholesterol of the blood serum. *Jour. Biol. Chem.*, November, 1928, lxxx, pp. 141-148.
- . Cholesterol in blood of horseshoe crab and woolly bear caterpillar. *Proc. Soc. Exp. Biol. and Med.*, January 16, 1929, xxvi, pp. 336-337.
- *SIMMS, HENRY S. The prearginine in edestin and its resistance to hydrolysis. *Jour. Gen. Physiol.*, November 20, 1928, xii, pp. 231-239.
- *— . Chemical antagonism of ions. I. Effect of Na-Mg and K-Mg mixtures on the activity of oxalic diion. *Jour. Gen. Physiol.*, November 20, 1928, xii, pp. 241-258.
- *— . Chemical antagonism of ions. II. Antagonism between anions and also between cations and anions in their effect on oxalate activity. *Jour. Gen. Physiol.*, November 20, 1928, xii, pp. 259-267.
- †— . Chemical antagonism of ions. III. Effect of salt mixtures on gelatin activity. *Jour. Gen. Physiol.*, March 20, 1929, xii, pp. 511-528.
- †SMITH, THEOBALD. A strain of *Bacillus abortus* from swine. *Jour. Exp. Med.*, April 1, 1929, xlix, pp. 671-679.

* To be published in *Studies LXIX*.

† To be published in *Studies LXX*.

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MAY 1, 1929, TO NOVEMBER 1, 1929

THE DEPARTMENT OF THE GENERAL LABORATORIES

Pathology and Bacteriology

- CASEY, A. E. Basophilia as an index of resistance. *Proc. Soc. Exp. Biol. and Med.*, May 25, 1929, 26, pp. 670-672.
- DOAN, CHARLES A. Diagnostic significance of precipitin tests with Anderson phosphatide fractions from human, bovine, and avian tubercle bacilli. *Proc. Soc. Exp. Biol. and Med.*, May 25, 1929, 26, pp. 672-677.
- *DRURY, D. R. Total surgical removal of the liver in rabbits. *Jour. Exp. Med.*, May 1, 1929, 49, pp. 759-764.
- *— and MCMASTER, PHILIP D. The relation of the liver to fat metabolism. I. Effect of liver lack on fat combustion and the respiratory quotient. *Jour. Exp. Med.*, May 1, 1929, 49, pp. 765-778.
- and —. Glucose requirement of hepatectomized rabbits and its relation to lactic acid production. *Proc. Soc. Exp. Biol. and Med.*, October 16, 1929, 27, pp. 48-50.
- FLEXNER, SIMON. Hideyo Noguchi. A biographical sketch. *Science*, June 28, 1929, 69, pp. 653-660.
- . Paul Adin Lewis. *Science*, August 9, 1929, 70, pp. 133-134.
- *— and RHOADS, CORNELIUS P. A method for the determination of the activity of antipoliomyelitic serum. *Proc. Nat. Acad. Sc.*, July, 1929, 15, pp. 609-611.
- *FORKNER, CLAUDE E. Blood and bone marrow cells of the domestic fowl. *Jour. Exp. Med.*, July 1, 1929, 50, pp. 121-141.
- *FURTH, J., and LANDSTEINER, K. Studies on the precipitable substances of bacilli of the Salmonella group. *Jour. Exp. Med.*, May 1, 1929, 49, pp. 727-743.

*To be published in *Studies 71*.

- *GILDING, H. P. Studies of tissue maintenance. II. The service to the liver and digestive tract after hemorrhage. *Jour. Exp. Med.*, August 1, 1929, 50, pp. 213-226.
- †— and ROUS, PEYTON. Studies of tissue maintenance. III. Persisting bloodlessness after functional ischemia. *Jour. Exp. Med.*, October 1, 1929, 50, pp. 471-487.
- *HARNES, ALVIN R. Biometry of calcium, inorganic phosphorus, cholesterol, and lipid phosphorus in the blood of rabbits. III. Influence of various types of light environment: *Jour. Exp. Med.*, May 1, 1929, 49, pp. 859-882.
- *—. Biometry of calcium, inorganic phosphorus, cholesterol, and lecithin in the blood of rabbits. IV. Effects of a malignant tumor. *Jour. Exp. Med.*, July 1, 1929, 50, pp. 109-120.
- *KUBIE, LAWRENCE S. Staining of tissues of the central nervous system with silver. The influence of the strength of the reducing agent. *Arch. Neurol. and Psychiat.*, July, 1929, 22, pp. 135-138.
- LANDSTEINER, K. Die Lipoide in der Immunitätslehre, in Kolle, W., Kraus, R., and Uhlenhuth, P., *Handbuch der pathogenen Mikroorganismen*, Jena, 3rd edition, 1929, 1, No. 29, pp. 1069-1108.
- . Ueber einfache chemische Verbindungen enthaltende Antigene. *Z. Immunitätsforsch.*, June 5, 1929, 62, pp. 178-184.
- *— and LEVINE, PHILIP. On the racial distribution of some agglutinable structures of human blood. *Jour. Immunol.*, February, 1929, 16, pp. 123-131.
- *— and —. On isoagglutinin reactions of human blood other than those defining the blood groups. *Jour. Immunol.*, July, 1929, 17, pp. 1-28.
- †— and VAN DER SCHEER, J. Serological differentiation of steric isomers (antigens containing tartaric acids). Second paper. *Jour. Exp. Med.*, October 1, 1929, 50, pp. 407-417.
- *McMASTER, PHILIP D., and DRURY, D. R. The production of partial liver insufficiency in rabbits. *Jour. Exp. Med.*, May 1, 1929, 49, pp. 745-758.
- and —. Irreversible character of the late changes after hepatectomy. *Proc. Soc. Exp. Biol. and Med.*, October 16, 1929, 27, pp. 47-48.
- †NOGUCHI, HIDEYO, MULLER, HENRY R., TILDEN, EVELYN B., and TYLER, JOSEPH R. Etiology of Oroya fever. XV. Effect of immune serum on the course of *Bartonella bacilliformis* infection in *Macacus rhesus*. *Jour. Exp. Med.*, September 1, 1929, 50, pp. 355-364.

*To be published in *Studies 71*.

†To be published in *Studies 72*.

- †NOGUCHI, HIDEYO, MULLER, HENRY R., TILDEN, EVELYN B., and TYLER, JOSEPH R. Etiology of Oroya fever. XVI. Verruga in the dog and the donkey. *Jour. Exp. Med.*, October 1, 1929, 50, pp. 455-461.
- *—, SHANNON, RAYMOND C., TILDEN, EVELYN B., and TYLER, JOSEPH R. Etiology of Oroya fever. XIV. The insect vectors of Carrion's disease. *Jour. Exp. Med.*, June 1, 1929, 49, pp. 993-1008.
- †OLITSKY, PETER K., and LONG, PERRIN H. Relation of vaccinal immunity to the persistence of the virus in rabbits. *Jour. Exp. Med.*, September 1, 1929, 50, pp. 263-272.
- *—, RHOADS, CORNELIUS P., and LONG, PERRIN H. Relation of streptococci to the spinal fluid in experimental poliomyelitis. *Jour. Am. Med. Assn.*, May 25, 1929, 92, pp. 1725-1727.
- †—, —, and —. The effect of cataphoresis on poliomyelitis virus. *Jour. Exp. Med.*, September 1, 1929, 50, pp. 273-277.
- PEARCE, LOUISE, and CASEY, A. E. The monocytic reaction in Virus III disease. *Proc. Soc. Exp. Biol. and Med.*, May 25, 1929, 26, pp. 666-668.
- and —. The monocytic reaction in neoplasia of the rabbit. *Proc. Soc. Exp. Biol. and Med.*, May 25, 1929, 26, pp. 668-670.
- *ROUS, PEYTON, and GILDING, H. P. Studies of tissue maintenance. I. The changes with diminished blood bulk. *Jour. Exp. Med.*, August 1, 1929, 50, pp. 189-211.
- †— and —. The final response of the small cutaneous vessels. *Jour. Exp. Med.*, October 1, 1929, 50, pp. 489-512.
- *SMILLIE, W. G., and CALDWELL, E. L. A study of pneumonia in a rural area in southern Alabama. *Jour. Exp. Med.*, August 1, 1929, 50, pp. 233-244.
- STEWART, FRED W., and RHOADS, CORNELIUS P. Lesions in nasal mucous membranes of monkeys with acute poliomyelitis. *Proc. Soc. Exp. Biol. and Med.*, May 25, 1929, 26, pp. 664-665.
- *— and —. Intradermal versus subcutaneous immunization of monkeys against poliomyelitis. *Jour. Exp. Med.*, June 1, 1929, 49, pp. 959-973.
- *WELO, L. A. On the absence of change in magnetic susceptibility with crystallization in strong magnetic fields. *Phys. Rev.*, July 15, 1929, 34, series 2, pp. 296-299.

Biophysics

- †ARMSTRONG, ALICE H. The x-ray diffracting power of copper and iron for molybdenum and copper radiation. *Phys. Rev.*, September 15, 1929, 34, series 2, pp. 931-936.

*To be published in *Studies 71*.

†To be published in *Studies 72*.

- †BAKER, LILLIAN E., and COREY, ROBERT B. The effects of cathode rays on the proteins of serum. *Jour. Exp. Med.*, October 1, 1929, 50, pp. 439-444.
- †DURAN-REYNALS, F. The effect of extracts of certain organs from normal and immunized animals on the infecting power of vaccine virus. *Jour. Exp. Med.*, September 1, 1929, 50, pp. 327-340.
- †— and MURPHY, JAMES B. Properties of the causative agent of a chicken tumor. I. The specific fixation by tissues of susceptible animals. *Jour. Exp. Med.*, September 1, 1929, 50, pp. 315-326.
- †STEWART, FRED W., and DURAN-REYNALS, F. A study of the generalization of vaccine virus from enhanced skin lesions. *Jour. Exp. Med.*, September 1, 1929, 50, pp. 341-353.
- †WYCKOFF, RALPH W. G., and COREY, ROBERT B. The crystal structure of dimethyl diethyl ammonium chlorostannate. *Am. Jour. Sc.*, August, 1929, 18, series 5, pp. 138-144.

Chemistry

- *ALBRECHT, WERNER H. Magnetische und krystallographische Untersuchungen: Über Eisen (III)-oxyhydrate. *Ber. chem. Ges.*, June 5, 1929, 62, pp. 1475-1482.
- *LEVENE, P. A., and HALLER, H. L. The configurational relationship of 2-methyl-heptanol-(6) to lactic acid. With a note on the effect of unsaturation on optical activity. *Jour. Biol. Chem.*, July, 1929, 83, pp. 177-183.
- *— and —. On the configurational relationship of chlorosuccinic acid to chloropropionic and to lactic acids. *Jour. Biol. Chem.*, July, 1929, 83, pp. 185-190.
- †— and —. The configurational relationships of ethylbutyl and propylbutyl carbinols to lactic acid. With a note on the effect of unsaturation on optical activity. *Jour. Biol. Chem.*, September, 1929, 83, pp. 579-589.
- †— and —. The correlation of the configurations of 2-, 3-, and 4-substituted chloro- and hydroxy-aliphatic acids. *Jour. Biol. Chem.*, September, 1929, 83, pp. 591-600.
- †— and LONDON, E. S. The structure of thymonucleic acid. *Jour. Biol. Chem.*, September, 1929, 83, pp. 793-802.
- †— and MORI, T. Ribodesose and xylodesose and their bearing on the structure of thyminose. *Jour. Biol. Chem.*, September, 1929, 83, pp. 803-816.

*To be published in *Studies 71*.

†To be published in *Studies 72*.

- †LEVENE, P. A., and MORI, T. The carbohydrate group of ovomucoid. *Jour. Biol. Chem.*, October, 1929, **84**, pp. 49-61.
- †— and ROTHEN, ALEXANDRE. On the molecular size of the carbohydrates obtained from egg proteins. *Jour. Biol. Chem.*, October, 1929, **84**, pp. 63-68.
- †— and WALTJ, A. Studies in polymerization and condensation. V. Condensation products of methylcyclo-dihydroxyacetone. *Jour. Biol. Chem.*, October, 1929, **84**, pp. 39-47.
- †RAYMOND, ALBERT L. A manometric method for the determination of gas in fermentations. *Jour. Biol. Chem.*, September, 1929, **83**, pp. 611-618.
- †— and LEVENE, P. A. Synthetic hexosephosphates and their phenylhydrazine derivatives. *Jour. Biol. Chem.*, September, 1929, **83**, pp. 619-630.
- †TAYLOR, F. A., and LEVENE, P. A. On the cerebronic acid fraction. *Jour. Biol. Chem.*, October, 1929, **84**, pp. 23-37.

Chemical Pharmacology

- *JACOBS, WALTER A., and GUSTUS, EDWIN L. The digitalis glucosides. III. Gitoxigenin and isogitoxigenin. *Jour. Biol. Chem.*, May, 1929, **82**, pp. 403-409.
- †— and —. Strophanthin. XVII. Dehydration and lactone cleavage in isostrophanthic acid derivatives. *Jour. Biol. Chem.*, October, 1929, **84**, pp. 183-190.

Experimental Surgery

- CARREL, ALEXIS. The nutritional properties of malignant cells. *Proc. Am. Phil. Soc.*, 1929, **68**, pp. 129-132.
- . Tissue culture. *Encycl. Brit.*, 14th edition, 1929, **22**, pp. 247-251.
- ROSENBERGER, HEINZ. A standard microcinematographic apparatus. *Science*, June 28, 1929, **69**, pp. 672-674.

General Physiology

- BLINKS, L. R., HARRIS, E. S., and OSTERHOUT, W. J. V. Studies on stimulation in *Nitella*. *Proc. Soc. Exp. Biol. and Med.*, May 29, 1929, **26**, pp. 836-838.
- *LONGSWORTH, LEWIS G., and MACINNES, DUNCAN A. An improved constant current regulator. *Jour. Opt. Soc. Am. and Rev. Scient. Inst.*, July, 1929, **19**, pp. 50-56.

* To be published in *Studies 71*.

† To be published in *Studies 72*.

- †MACINNES, DUNCAN A., COWPERTHWAIT, IRVING A., and SHEDLOVSKY, THEODORE. The conductance and transference number of the chloride ion in mixtures of sodium and potassium chlorides. *Jour. Am. Chem. Soc.*, September, 1929, 51, pp. 2671-2676.
- *— and DOLE, MALCOLM. A glass electrode apparatus for measuring the pH values of very small volumes of solution. *Jour. Gen. Physiol.*, July 20, 1929, 12, pp. 805-811.
- NORTHROP, JOHN H. Crystalline pepsin. *Science*, May 31, 1929, 69, p. 580.
- †—. Unequal distribution of ions in a collodion cell. *Jour. Gen. Physiol.*, September 20, 1929, 13, pp. 21-25.
- OSTERHOUT, W. J. V., and HARRIS, E. S. Bioelectrical aspects of the all or none law. *Proc. Soc. Exp. Biol. and Med.*, May 29, 1929, 26, pp. 838-842.
- *— and ——. The concentration effect in *Nitella*. *Jour. Gen. Physiol.*, July 20, 1929, 12, pp. 761-781.
- †— and ——. Note on the nature of the current of injury in tissues. *Jour. Gen. Physiol.*, September 20, 1929, 13, pp. 47-56.

THE DEPARTMENT OF THE HOSPITAL

- †AVERY, OSWALD T., and GOEBEL, WALTHER F. Chemo-immunological studies on conjugated carbohydrate-proteins. II. Immunological specificity of synthetic sugar-protein antigens. *Jour. Exp. Med.*, October 1, 1929, 50, pp. 533-550.
- COHN, ALFRED E. The aging of the heart muscle regarded from a general biologic point of view. *Am. Jour. Med. Sc.*, May, 1929, 177, pp. 619-639.
- †COLE, RUFUS. Serum treatment in type I lobar pneumonia. *Jour. Am. Med. Assn.*, September 7, 1929, 93, pp. 741-747.
- *DUBOS, RENÉ. The rôle of carbohydrates in biological oxidations and reductions. Experiments with *Pneumococcus*. *Jour. Exp. Med.*, August 1, 1929, 50, pp. 143-160.
- *EHRICH, WILHELM. Studies of the lymphatic tissue. I. The anatomy of the secondary nodules and some remarks on the lymphatic and lymphoid tissue. *Am. Jour. Anat.*, May 15, 1929, 43, pp. 347-383.
- *—. Studies of the lymphatic tissue. II. The first appearance of the secondary nodules in the embryology of the lymphatic tissue. *Am. Jour. Anat.*, May 15, 1929, 43, pp. 385-401.

* To be published in *Studies 71*.

† To be published in *Studies 72*.

- †GOEBEL, WALTHER F., and AVERY, OSWALD T. Chemo-immunological studies on conjugated carbohydrate-proteins. I. The synthesis of *p*-aminophenol β -glucoside, *p*-aminophenol β -galactoside, and their coupling with serum globulin. *Jour. Exp. Med.*, October 1, 1929, 50, pp. 521-531.
- †HAWKINS, JAMES A. A micro time method for determination of reducing sugars, and its application to analysis of blood and urine. *Jour. Biol. Chem.*, October, 1929, 84, pp. 69-77.
- †—. Reducing powers of different sugars for the ferricyanide reagent used in the gasometric sugar method. *Jour. Biol. Chem.*, October, 1929, 84, pp. 79-82.
- †— and VAN SLYKE, DONALD D. Comparison of rates of sugar disappearance and carbon dioxide formation during fermentation of glucose. *Jour. Biol. Chem.*, October, 1929, 84, pp. 243-247.
- *HEIDELBERGER, MICHAEL, AVERY, OSWALD T., and GOEBEL, WALTHER F. A "soluble specific substance" derived from gum arabic. *Jour. Exp. Med.*, May 1, 1929, 49, pp. 847-857.
- *RIVERS, T. M., and ELDRIDGE, L. A., JR. Relation of varicella to herpes zoster. I. Statistical observations. *Jour. Exp. Med.*, June 1, 1929, 49, pp. 899-906.
- *— and —. Relation of varicella to herpes zoster. II. Clinical and experimental observations. *Jour. Exp. Med.*, June 1, 1929, 49, pp. 907-917.
- *—, HAAGEN, E., and MUCKENFUSS, R. S. Observations concerning the persistence of living cells in Maitland's medium for the cultivation of vaccine virus. *Jour. Exp. Med.*, August 1, 1929, 50, pp. 181-187.
- *STEWART, HAROLD J. A study of certain effects occasioned in dogs by diphtheria toxin. II. Analysis of the mechanism possibly responsible for the alterations of the heart. *Arch. Path.*, May, 1929, 7, pp. 767-786.
- *—. The oral administration of calcium chloride in congestive heart failure. *Am. Heart Jour.*, June, 1929, 4, pp. 512-520.
- *—. The effect of exercise on the size of normal hearts and of enlarged hearts of dogs. *Jour. Clin. Inv.*, August 20, 1929, 7, pp. 339-351.
- †—. The use of calcium chloride given intravenously in congestive heart failure. *Am. Heart Jour.*, August, 1929, 4, pp. 646-660.
- . The objects of digitalis therapy. *Am. Heart Jour.*, October, 1929, 5, pp. 1-8.
- SWIFT, HOMER F. Rheumatic fever. Hektoen Lecture, Billings Foundation. *Jour. Am. Med. Assn.*, June 22, 1929, 92, pp. 2071-2083.

* To be published in *Studies 71*.

† To be published in *Studies 72*.

- *SWIFT, HOMER F., and DERICK, C. L. Reactions of rabbits to non-hemolytic streptococci. II. Skin reactions in intravenously immunized animals. *Jour. Exp. Med.*, May 1, 1929, **49**, pp. 883-897.
- VAN SLYKE, DONALD D. Review of, The determination of hydrogen ions, by William Mansfield Clark, 3rd edition, Baltimore, 1928. *Jour. Am. Chem. Soc.*, May, 1929, **51**, p. 1618.
- *——. The determination of acetone bodies in blood and urine. Reply to criticisms by E. C. Smith. *Jour. Biol. Chem.*, August, 1929, **83**, pp. 415-423.
- *——. Manometric determination of primary amino nitrogen and its application to blood analysis. *Jour. Biol. Chem.*, August, 1929, **83**, pp. 425-447.
- *——. The manometric determination of urea in blood and urine by the hypobromite reaction. *Jour. Biol. Chem.*, August, 1929, **83**, pp. 449-461.
- *—— and HAWKINS, JAMES A. Gasometric determination of fermentable sugar in blood and urine. *Jour. Biol. Chem.*, July, 1929, **83**, pp. 51-70.
- †—— and HILLER, ALMA. Gasometric determination of methemoglobin. *Jour. Biol. Chem.*, October, 1929, **84**, pp. 205-210.
- †—— and ——. Gasometric control of standard solutions for the Palmer hemoglobin method. *Jour. Biol. Chem.*, October, 1929, **84**, pp. 211-216.
- †—— and SENDROY, JULIUS, JR. Gasometric determination of oxalic acid and calcium, and its application to serum analysis. *Jour. Biol. Chem.*, October, 1929, **84**, pp. 217-232.

THE DEPARTMENT OF ANIMAL PATHOLOGY

- †GOWEN, JOHN W. On the nature of gene action. *Science*, October 11, 1929, **70**, pp. 358-360.
- †JONES, F. S., and SIMMS, H. S. Adaptation of mastitis streptococci to milk. *Jour. Exp. Med.*, September 1, 1929, **50**, pp. 279-291.
- †LEWIS, PAUL A., and SHOPE, RICHARD E. The cultural and staining reactions of a strain of the tubercle bacillus producing paralysis in guinea pigs. *Jour. Exp. Med.*, September 1, 1929, **50**, pp. 371-376.
- †NELSON, JOHN B. The removal of agglutinin from sensitized motile bacteria. Second paper. The agglutinative properties of water washings. *Jour. Exp. Med.*, September 1, 1929, **50**, pp. 377-386.
- †SHOPE, RICHARD E., and LEWIS, PAUL A. A paralytic disease of guinea pigs due to the tubercle bacillus. *Jour. Exp. Med.*, September 1, 1929, **50**, pp. 365-370.

* To be published in *Studies 71*.

† To be published in *Studies 72*.

- *SIMMS, H. S. The effect of salts on weak electrolytes. III. Interaction of certain weak electrolytes. *Jour. Phys. Chem.*, May, 1929, **33**, pp. 745-754.
- *——. Chemical antagonism of ions. IV. Effect of salt mixtures on glycine activity. *Jour. Gen. Physiol.*, July 20, 1929, **12**, pp. 783-792.
- *SMITH, THEOBALD. Undulant fever. Its relation to new problems in bacteriology and public health. *Medicine*, May, 1929, **8**, pp. 193-209.
- . Hideyo Noguchi, 1876-1928. *Bull. New York Acad. Med.*, September, 1929, **5**, series 2, pp. 877-884.
- †STOLL, NORMAN R. Studies with the stronglyloid nematode, *Haemonchus contortus*. I. Acquired resistance of hosts under natural reinfection conditions out-of-doors. *Am. Jour. Hyg.*, September, 1929, **10**, pp. 384-418.
- *WILSON, J. W., and STOLL, NORMAN R. Two common fly species easily reared in the laboratory. *Science*, May 31, 1929, **69**, pp. 577-579.

*To be published in *Studies 71*.

†To be published in *Studies 72*.

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