

1932

1931-1932

The Rockefeller University

Follow this and additional works at: <https://digitalcommons.rockefeller.edu/semiannual-publications-rockefeller-institute>

---

### Recommended Citation

The Rockefeller University, "1931-1932" (1932). *Semiannual List of the Publications of the Staff of the Rockefeller Institute*. 17.  
<https://digitalcommons.rockefeller.edu/semiannual-publications-rockefeller-institute/17>

This Book is brought to you for free and open access by the Campus Publications at Digital Commons @ RU. It has been accepted for inclusion in Semiannual List of the Publications of the Staff of the Rockefeller Institute by an authorized administrator of Digital Commons @ RU. For more information, please contact [mcsweej@mail.rockefeller.edu](mailto:mcsweej@mail.rockefeller.edu).

Results of the investigations conducted at The Rockefeller Institute for Medical Research, or elsewhere under its grants, are first reported in a variety of journals and publications. The Semiannual List, of which this is No. 32, gives the place of publication of the most recent reports of these investigations. It will be sent regularly upon request.

---

SEMIANNUAL LIST OF THE PUBLICATIONS OF  
THE STAFF OF THE ROCKEFELLER  
INSTITUTE FOR MEDICAL  
RESEARCH

NOVEMBER 1, 1931, TO MAY 1, 1932

THE DEPARTMENT OF THE LABORATORIES

*Pathology and Bacteriology*

- \*BURKY, E. L., and FREESE, H. L. Filter-passing anaerobic bacteria of the upper respiratory tract in health and during acute respiratory disease. *Jour. Bact.*, November, 1931, 22, pp. 309-321.
- DURAN-REYNALS, F. Estudios experimentales sobre el efecto de unos ciertos nuevos factores de origen tisular sobre las infecciones y el cáncer. *Rev. méd. Barcelona*, October, 1931, 16, pp. 291-322.
- FAVILLI, GIOVANNI. Esistono in alcuni organi sostanze che modificano la permeabilità cellulare? Azione degli estratti testicolari sui globuli rossi *in vitro*. Nota prima. *Sperimentale*, December 12, 1931, 85, pp. 561-571.
- FLEXNER, SIMON. Accelerated infection in experimental poliomyelitis. *Science*, November 20, 1931, 74, pp. 520-521.
- . Simultaneity in the onset of poliomyelitis. *Science*, December 11, 1931, 74, pp. 601-602.
- †HUDACK, STEPHEN, and MCMASTER, PHILIP D. The gradient of permeability of the skin vessels as influenced by heat, cold, and light. *Jour. Exp. Med.*, March 1, 1932, 55, pp. 431-439.
- IRWIN, M. R., and HUGHES, T. P. Differences in bactericidal power of the blood within an inbred strain of rats. *Proc. Soc. Exp. Biol. and Med.*, December, 1931, 29, pp. 295-297.
- LANDSTEINER, K., and JACOBS, JOHN. Experiments on immunization with haptens. *Proc. Soc. Exp. Biol. and Med.*, February, 1932, 29, pp. 570-571.
- † — and LEVINE, PHILIP. On the Forssman antigens in *B. paratyphosus* B and *B. dysenteriae* Shiga. *Jour. Immunol.*, February, 1932, 22, pp. 75-82.

---

\* Published in *Studies* 81.

† To be published in *Studies* 82.

- \*LANDSTEINER, K., and VAN DER SCHEER, J. Beobachtungen über Präcipitinreaktionen mit Azoalbumosen. *Z. Hyg. u. Infektionskrankh.*, October 21, 1931, **113**, pp. 1-8.
- and —. Precipitin reactions of immune sera with simple chemical substances. *Proc. Soc. Exp. Biol. and Med.*, March, 1932, **29**, pp. 747-748.
- \*LEVINE, PHILIP, and LANDSTEINER, K. On immune isoagglutinins in rabbits. Second paper. *Jour. Immunol.*, December, 1931, **21**, pp. 513-515.
- \*LYNCH, CLARA J. Studies on the relation between tumor susceptibility and heredity. V. The influence of heredity upon the incidence of lung tumors in mice. *Jour. Exp. Med.*, November 1, 1931, **54**, pp. 747-760.
- † MCMASTER, PHILIP D., and HUDACK, STEPHEN. The vessels involved in hydrostatic transudation. *Jour. Exp. Med.*, March 1, 1932, **55**, pp. 417-430.
- \*—, —, and ROUS, PEYTON. The relation of hydrostatic pressure to the gradient of capillary permeability. *Jour. Exp. Med.*, February 1, 1932, **55**, pp. 203-221.
- † NIGG, CLARA, and LANDSTEINER, K. Studies on the cultivation of the typhus fever rickettsia in the presence of live tissue. *Jour. Exp. Med.*, April 1, 1932, **55**, pp. 563-576.
- OLITSKY, PETER K., and FORSBECK, FILIP C. Concerning an increase in the potency of mosaic virus *in vitro*. *Science*, November 13, 1931, **74**, pp. 483-484.
- \*PRITCHETT, I. W., and HUGHES, T. P. The epidemiology of fowl cholera. VI. The spread of epidemic and endemic strains of *Pasteurella avicida* in laboratory populations of normal fowl. *Jour. Exp. Med.*, January 1, 1932, **55**, pp. 71-78.
- RAKE, GEOFFREY. Biological properties of "fresh" and "stock" strains of the meningococcus. *Proc. Soc. Exp. Biol. and Med.*, December, 1931, **29**, pp. 287-289.
- \*ROUS, PEYTON, and BOTSFORD, ELIZABETH. The incidence of cancer in tarred and sheltered mice. *Jour. Exp. Med.*, February 1, 1932, **55**, pp. 247-266.
- SABIN, FLORENCE R. Cellular studies in tuberculosis. *Am. Rev. Tuberc.*, February, 1932, **25**, pp. 153-171; and *Tubercle*, February, 1932, **13**, pp. 206-220.
- †— . Cellular reactions to fractions isolated from tubercle bacilli. *Physiol. Rev.*, April, 1932, **12**, pp. 141-165.

---

\* Published in *Studies 81*.

† To be published in *Studies 82*.

- †STURM, ERNEST, GATES, FREDERICK L., and MURPHY, JAMES B. Properties of the causative agent of a chicken tumor. II. The inactivation of the tumor-producing agent by monochromatic ultraviolet light. *Jour. Exp. Med.*, March 1, 1932, **55**, pp. 441-444.
- †TANZER, RADFORD C. The effect of testicle extract on the growth of transplantable mouse tumors. *Jour. Exp. Med.*, March 1, 1932, **55**, pp. 455-463.
- WEBSTER, LESLIE T. Experimental epidemiology. *Science*, April 29, 1932, **75**, pp. 445-452.
- †— and CLOW, A. D. The association of pneumococci, *Hemophilus influenzae*, and *Streptococcus hemolyticus* with coryza, pharyngitis, and sinusitis in man. *Jour. Exp. Med.*, March 1, 1932, **55**, pp. 445-453.
- †WISEMAN, BRUCE K. The identity of the lymphocyte. *Folia haematol.*, March, 1932, **46**, pp. 346-358.

### Chemistry

- †DILLON, ROBERT T. The reaction rate of potassium iodide with dibromides of the ethylene bromide type. *Jour. Am. Chem. Soc.*, March, 1932, **54**, pp. 952-960.
- †LEVENE, P. A. Concentration of vitamins B<sub>1</sub> and B<sub>2</sub>. *Jour. Biol. Chem.*, February, 1932, **95**, pp. 317-326.
- †— and HARRIS, STANTON A. The ribosephosphoric acid from xanthylic acid. *Jour. Biol. Chem.*, March, 1932, **95**, pp. 755-764.
- †— and MARKER, R. E. Configurational relationship of hydrocarbons. IV. Optical rotations of hydrocarbons of the isoamyl series. The configurational relationship of substituted carbonic acids containing an isobutyl and an isoamyl group to those of the corresponding normal carbonic acids. *Jour. Biol. Chem.*, February, 1932, **95**, pp. 1-24.
- †— and —. On Walden inversion. XVII. Optical rotations in homologous series of carboxylic acids. *Jour. Biol. Chem.*, February, 1932, **95**, pp. 153-164.
- †—, RAYMOND, ALBERT L., and DILLON, ROBERT T. Glucoside formation in the commoner monoses. *Jour. Biol. Chem.*, March, 1932, **95**, pp. 699-713.
- and TIPSON, R. STUART. The ring structure of adenosine. *Science*, November 20, 1931, **74**, p. 521.
- \*— and —. The ring structure of adenosine. *Jour. Biol. Chem.*, January, 1932, **94**, pp. 809-819.

---

\* Published in *Studies 81*.

† To be published in *Studies 83*.

† To be published in *Studies 82*.

- \*LEVENE, P. A., and WALT, A. Studies in polymerization and condensation. VII. Polymerization of the  $\alpha$ -hydroxyaldehydes. *Jour. Biol. Chem.*, December, 1931, **94**, pp. 353-360.
- \*— and —. Phytochemical reductions. The configurations of glycols obtained by reduction with fermenting yeast. *Jour. Biol. Chem.*, December, 1931, **94**, pp. 361-366.
- \*— and —. On the configurational relationship of the carbinols of the isobutyl series and of ethylbenzylcarbinol to the simple aliphatic carbinols. *Jour. Biol. Chem.*, December, 1931, **94**, pp. 367-372.
- \*— and —. Configurational relationship of  $\alpha$ -hydroxyheptanoic acid to other  $\alpha$ -hydroxy acids. *Jour. Biol. Chem.*, December, 1931, **94**, pp. 593-598.

#### *Experimental Surgery*

- \*CARREL, ALEXIS. Physiological time. *Science*, December 18, 1931, **74**, pp. 618-621.
- †LINDERBERGH, C. A. A method for washing corpuscles in suspension. *Science*, April 15, 1932, **75**, pp. 415-416.
- \*SANTESSON, LARS. On the nutritional requirements *in vitro* of normal and malignant mouse epitheliums. *Jour. Exp. Med.*, February 1, 1932, **55**, pp. 281-293.

#### *General Physiology*

- \*ANSON, M. L., and MIRSKY, A. E. The effect of denaturation on the viscosity of protein systems. *Jour. Gen. Physiol.*, January 20, 1932, **15**, pp. 341-350.
- IRWIN, MARIAN. Can protein act as a carrier in penetration? *Proc. Soc. Exp. Biol. and Med.*, December, 1931, **29**, p. 342.
- \*NORTHROP, JOHN H., and KRUEGER, ALBERT P. The rôle of intracellular bacteriophage in lysis of susceptible staphylococci. *Jour. Gen. Physiol.*, January 20, 1932, **15**, pp. 329-332.
- OSTERHOUT, W. J. V., and STANLEY, W. M. Models showing accumulation. *Proc. Soc. Exp. Biol. and Med.*, February, 1932, **29**, p. 577.

#### *Physical Chemistry*

- †BAUMBERGER, J. P., and MICHAELIS, L. The blood pigments of *Urechis caupo*. *Biol. Bull.*, December, 1931, **61**, pp. 417-421.
- COWPERTHWAIT, IRVING A., and LA MER, VICTOR K. The electromotive force of the cell  $\text{Zn(s)} \mid \text{ZnSO}_4\text{(m)} \mid \text{PbSO}_4\text{(s)} \mid \text{Pb(s)}$ . An experimental determination of the temperature coefficient of the ion size parameter in the theory of Debye and Hückel. *Jour. Am. Chem. Soc.*, December, 1931, **53**, pp. 4333-4348.

---

\* Published in *Studies 81*.

† To be published in *Studies 82*.

FRIEDHEIM, ERNST A. H. Der Einfluss von Pyocyanin auf die Atmung von normalen Geweben und Tumoren. *Naturwissenschaften*, March 4, 1932, 20, pp. 171-172.

†MACINNES, DUNCAN A., and SHEDLOVSKY, THEODORE. The determination of the ionization constant of acetic acid, at 25°, from conductance measurements. *Jour. Am. Chem. Soc.*, April, 1932, 54, pp. 1429-1438.

\*MICHAELIS, L., and SMYTHE, C. V. The correlation between rate of oxidation and potential in iron systems. *Jour. Biol. Chem.*, December, 1931, 94, pp. 329-340.

†SHEDLOVSKY, THEODORE. An equation for electrolytic conductance. *Jour. Am. Chem. Soc.*, April, 1932, 54, pp. 1405-1411.

†——. The electrolytic conductivity of some uni-univalent electrolytes in water at 25°. *Jour. Am. Chem. Soc.*, April, 1932, 54, pp. 1411-1428.

#### Biophysics

\*WYCKOFF, RALPH W. G. The killing of colon bacilli by ultraviolet light. *Jour. Gen. Physiol.*, January 20, 1932, 15, pp. 351-361.

†——. Some single crystal spectrometric data on urea. *Z. Krist.*, January, 1932, 81, pp. 102-109.

†—— and COREY, ROBERT B. The crystal structure of thiourea. *Z. Krist.*, March, 1932, 81, pp. 386-395.

†——, EBELING, ALBERT H., and TER LOUW, ADRIAN L. A comparison between the ultraviolet microscopy and the Feulgen staining of certain cells. *Jour. Morphol. and Physiol.*, March 5, 1932, 53, pp. 189-199.

\*—— and LUYET, BASILE J. The effects of X-rays, cathode, and ultraviolet rays on yeast. *Radiology*, December, 1931, 17, pp. 1171-1175.

\*—— and TER LOUW, ADRIAN L. On the ultraviolet photomicrography of living cells. *Science*, December 25, 1931, 74, pp. 664-665.

#### THE DEPARTMENT OF THE HOSPITAL

\*ALLOWAY, J. LIONEL. The transformation *in vitro* of R pneumococci into S forms of different specific types by use of filtered pneumococcus extracts. *Jour. Exp. Med.*, January 1, 1932, 55, pp. 91-99.

†BAUDISCH, OSKAR, and DUBOS, RENÉ. Über Katalasewirkung von Eisenverbindungen in Kulturmedien. *Biochem. Z.*, February 29, 1932, 245, pp. 278-281.

\*BERRY, G. P., and KITCHEN, S. F. Yellow fever accidentally contracted in the laboratory. A study of seven cases. *Am. Jour. Trop. Med.*, November, 1931, 11, pp. 365-434.

\* Published in *Studies 81*.

† To be published in *Studies 82*.

- †COLE, RUFUS. The nature of pneumonia. *Proc. Inst. Med., Chicago*, January 15, 1932, 9, pp. 2-20.
- †DUBOS, RENÉ. Factors affecting the yield of specific enzyme in cultures of the bacillus decomposing the capsular polysaccharide of Type III pneumococcus. *Jour. Exp. Med.*, March 1, 1932, 55, pp. 377-391.
- \*EHRICH, WILHELM, DE LA CHAPELLE, CLARENCE, and COHN, ALFRED E. Anatomical ontogeny. B. Man. I. A study of the 'coronary arteries. *Am. Jour. Anat.*, November 15, 1931, 49, pp. 241-282.
- \*— and COHN, ALFRED E. Anatomical ontogeny. A. Fowl. C. Rabbit. I. A study of the nuclei of the heart. *Am. Jour. Anat.*, November 15, 1931, 49, pp. 209-240.
- \*— and MCINTOSH, JOHN F. The pathogenesis of bronchiolitis obliterans. Observations in cases of Bright's disease. *Arch. Path.*, January, 1932, 13, pp. 69-79.
- \*FRANCIS, THOMAS, JR. The identity of the mechanisms of type-specific agglutinin and precipitin reactions with pneumococcus. *Jour. Exp. Med.*, January 1, 1932, 55, pp. 55-62.
- \*GOODNER, KENNETH. The development and localization of the dermal pneumococcic lesion in the rabbit. *Jour. Exp. Med.*, December 1, 1931, 54, pp. 847-858.
- †—, DUBOS, RENÉ, and AVERY, OSWALD T. The action of a specific enzyme upon the dermal infection of rabbits with Type III pneumococcus. *Jour. Exp. Med.*, March 1, 1932, 55, pp. 393-404.
- †KLINGE, F., and MCEWEN, CURRIER. Das Gewebsbild des fieberhaften Rheumatismus. V. Mitteilung. Untersuchungen des rheumatischen Frühinfiltrats auf Streptokokken. *Virchows Arch. path. Anat.*, February 5, 1932, 283, pp. 425-433.
- RIVERS, THOMAS M. A recently described virus disease of parrots and parrakeets differing from psittacosis. *Proc. Soc. Exp. Biol. and Med.*, November, 1931, 29, pp. 155-156.
- \*SCHULTZ, MARK P. The use of amidopyrine in rheumatic fever. *Arch. Int. Med.*, December, 1931, 48, pp. 1138-1155.
- †— and SWIFT, HOMER F. Reaction of rabbits to streptococci: comparative sensitizing effect of intracutaneous and intravenous inocula in minute doses. *Jour. Exp. Med.*, April 1, 1932, 55, pp. 591-601.
- †SENDROY, JULIUS, JR. Manometric analysis of gas mixtures. VI. Carbon monoxide by absorption with blood. *Jour. Biol. Chem.*, March, 1932, 95, pp. 599-611.
- †—, HILLER, ALMA, and VAN SLYKE, DONALD D. Determination of lung volume by respiration of oxygen without forced breathing. *Jour. Exp. Med.*, March 1, 1932, 55, pp. 361-375.

\* Published in *Studies 81*.

† To be published in *Studies 82*.



- \*STEELE, J. MURRAY. A report of two cases of localized pleural effusion in heart failure. *Am. Heart Jour.*, December, 1931, 7, pp. 212-222.
- STEWART, HAROLD J. Effect of giving digitalis on the volume output of the heart and its size in normal individuals. *Proc. Soc. Exp. Biol. and Med.*, November, 1931, 29, pp. 207-208.
- . Effect of giving digitalis on the volume output of the heart and its size in heart failure. *Proc. Soc. Exp. Biol. and Med.*, November, 1931, 29, pp. 209-211.
- †VAN SLYKE, DONALD D., and HANKE, MARTIN E. Manometric analysis of gas mixtures. IV. Hydrogen and oxygen by combustion. *Jour. Biol. Chem.*, March, 1932, 95, pp. 569-585.
- †— and — . Manometric analysis of gas mixtures. V. Hydrogen by absorption with Paal's picrate-palladium solution. *Jour. Biol. Chem.*, March, 1932, 95, pp. 587-597.
- †— and SENDROY, JULIUS, JR. Manometric analysis of gas mixtures. I. The determination, by simple absorption, of carbon dioxide, oxygen, and nitrogen in mixtures of these gases. *Jour. Biol. Chem.*, March, 1932, 95, pp. 509-529.
- †—, —, and LIU, SHIH HAO. Manometric analysis of gas mixtures. II. Carbon dioxide by the isolation method. *Jour. Biol. Chem.*, March, 1932, 95, pp. 531-546.
- †—, —, and — . Manometric analysis of gas mixtures. III. Manometric determination of carbon dioxide tension and  $\text{pH}_s$  of blood. *Jour. Biol. Chem.*, March, 1932, 95, pp. 547-568.

#### THE DEPARTMENT OF ANIMAL AND PLANT PATHOLOGY

- \*BEACH, J. R. A bacteriological study of infectious laryngotracheitis of chickens. *Jour. Exp. Med.*, December 1, 1931, 54, pp. 801-808.
- \*— . A filtrable virus, the cause of infectious laryngotracheitis of chickens. *Jour. Exp. Med.*, December 1, 1931, 54, pp. 809-816.
- CAIN, C. B., and SEIFRIED, OSKAR. Histological studies on hog cholera. *Jour. Am. Vet. Med. Assn.*, February, 1932, 80, n. s. 33, pp. 225-227.
- †GOWEN, JOHN W. Genetic criteria of breeding worth in dairy sires. *Internat. Dairy Cong.*, 1931, 1st sect., English edition, Copenhagen, 1931, pp. 19-30.
- †JONES, F. S., ORCUTT, MARION, and LITTLE, RALPH B. Atypical (slow) lactose fermenting *B. coli*. *Jour. Bact.*, March, 1932, 23, pp. 267-279.
- \*NELSON, JOHN B., and GOWEN, JOHN W. The establishment of an albino rat colony free from middle ear disease. *Jour. Exp. Med.*, November 1, 1931, 54, pp. 629-636.

\* Published in *Studies 81*.

† To be published in *Studies 82*.



- \*SEIFRIED, OSKAR. Histopathology of infectious laryngotracheitis in chickens. *Jour. Exp. Med.*, December 1, 1931, **54**, pp. 817-826.
- †——. Die Ausbreitung der „encephalitischen Reaktion“ bei Schweinepest und deren Beziehungen zur Hundestaupe-Encephalitis. *Arch. wissensch. u. prakt. Tierheilk.*, February, 1932, **64**, pp. 432-433.
- . Intranukleäre Einschlüsse bei infektiöser Laryngotracheitis der Hühner. *Z. Infektionskrankh. Haustiere*, March 7, 1932, **41**, pp. 65-70.
- , CAIN, C. B., and WULF, HARRO. A holder for chickens and other birds. *Science*, March 18, 1932, **75**, pp. 315-316.
- SIMMS, HENRY S. Studies in milk secretion. The influence of proteins on the distribution of salts between blood and milk. *Internat. Dairy Cong., 1931*, 2nd sect., English edition, Copenhagen, 1931, pp. 50-54.
- and JONES, F. S. Lactenin—a bacteriostatic substance in milk. *Internat. Dairy Cong., 1931*, 2nd sect., English edition, Copenhagen, 1931, pp. 27-28.
- †WILSON, J. W. Coleoptera and diptera collected from a New Jersey sheep pasture. *Jour. New York Entomol. Soc.*, March, 1932, **40**, pp. 77-93.

---

\* Published in *Studies 81*.

† To be published in *Studies 83*.

† To be published in *Studies 82*.

---

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*.

Other publications of The Rockefeller Institute are:

**The Journal of Experimental Medicine**, edited by **Simon Flexner, M.D.**, and **Peyton Rous, M.D.**

**The Journal of General Physiology**, edited by **W. J. Crozier**, **John H. Northrop**, and **W. J. V. Osterhout**.

**Monographs of The Rockefeller Institute for Medical Research.**

---

All correspondence should be addressed to the

DIVISION OF PUBLICATION  
THE ROCKEFELLER INSTITUTE FOR MEDICAL RESEARCH  
YORK AVENUE AND 66TH STREET  
NEW YORK, N. Y.

Results of the investigations conducted at The Rockefeller Institute for Medical Research, or elsewhere under its grants, are first reported in a variety of journals and publications. The Semiannual List, of which this is No. 33, gives the place of publication of the most recent reports of these investigations. It will be sent regularly upon request:

---

SEMIANNUAL LIST OF THE PUBLICATIONS OF  
THE STAFF OF THE ROCKEFELLER  
INSTITUTE FOR MEDICAL  
RESEARCH

MAY 1, 1932, TO NOVEMBER 1, 1932

THE DEPARTMENT OF THE LABORATORIES

*Pathology and Bacteriology*

- †BICKFORD, J. VAN ALLEN. Cellular reactions in the meninges of rabbits to tuberculo-lipoid, protein, and polysaccharide, compared with the effects of tubercle bacilli. *Jour. Exp. Med.*, July 1, 1932, 56, pp. 39-62.
- CASEY, ALBERT E. Experimental enhancement of malignancy in the Brown-Pearce rabbit tumor. *Proc. Soc. Exp. Biol. and Med.*, April, 1932, 29, pp. 816-818.
- †— and ROSAHN, PAUL D. Supravital differential counting adapted to clinical use. *Jour. Lab. and Clin. Med.*, September, 1932, 17, pp. 1263-1265.
- DOAN, CHARLES AUSTIN. Pathological physiology of blood formation, in Blumer, G., The practitioners library of medicine and surgery, New York, D. Appleton and Company, 1932, 1, pp. 981-1012.
- \*DURAN-REYNALS, F. The effect of antitesticular serum on the enhancement value of testicle extract. *Jour. Exp. Med.*, May 1, 1932, 55, pp. 703-712.
- FAVILLI, GIOVANNI. Sulla probabile esistenza di fattori di origine istogena capaci di modificare la permeabilità cellulare. III. Azione antagonista degli estratti testicolari e dei cosiddetti antiviruses. L'immunità locale come fenomeno in rapporto alla permeabilità cellulare. *Sperimentale*, August 20, 1932, 86, pp. 303-318.
- †—. The influence of some organ extracts on the permeability to water of sea-urchin eggs (*Arbacia punctulata*). *Jour. Cell. and Comp. Physiol.*, August 20, 1932, 2, pp. 1-10.

---

\* Published in *Studies 82*.

† Published in *Studies 83*.

‡ To be published in *Studies 84*.

- FLEXNER, SIMON. Wickliffe Rose. *Science*, May 13, 1932, 75, pp. 504-506.
- ‡——. Immunity to human and passage poliomyelitis virus. *Jour. Am. Med. Assn.*, October 8, 1932, 99, pp. 1244-1246.
- . Mode of infection in poliomyelitis, in Contributions to the medical sciences in honor of Dr. Emanuel Libman, New York, The International Press, 1932, 1, pp. 425-433.
- HUDACK, STEPHEN S., and MCMASTER, PHILIP D. Normal and pathological permeability of the lymphatic capillaries in human skin. *Proc. Soc. Exp. Biol. and Med.*, May, 1932, 29, pp. 944-945.
- †—— and ——. I. The permeability of the wall of the lymphatic capillary. *Jour. Exp. Med.*, August 1, 1932, 56, pp. 223-238.
- LANDSTEINER, K. Note on the group specific substance of horse saliva. *Science*, October 14, 1932, 76, pp. 351-352.
- †—— and LEVINE, PHILIP. Immunization of chimpanzees with human blood. *Jour. Immunol.*, June, 1932, 22, pp. 397-400.
- \*—— and VAN DER SCHEER, J. On the serological specificity of peptides. *Jour. Exp. Med.*, May 1, 1932, 55, pp. 781-796.
- †—— and ——. Note on the serological differentiation of steric isomers. *Proc. Soc. Exp. Biol. and Med.*, June, 1932, 29, pp. 1261-1263.
- ‡—— and ——. Serological reactions with simple chemical compounds (precipitin reactions). *Jour. Exp. Med.*, September 1, 1932, 56, pp. 399-409.
- †MCMASTER, PHILIP D., and HUDACK, STEPHEN S. II. Induced alterations in the permeability of the lymphatic capillary. *Jour. Exp. Med.*, August 1, 1932, 56, pp. 239-253.
- ‡MILLER, FRANKLIN R. The induced development of non-acid-fast forms of *Bacillus tuberculosis* and other mycobacteria. *Jour. Exp. Med.*, September 1, 1932, 56, pp. 411-424.
- †MURPHY, JAMES B., and STURM, ERNEST. Normal tissues as a possible source of inhibitor for tumors. *Science*, May 20, 1932, 75, pp. 540-541.
- †—— and ——. Properties of the causative agent of a chicken tumor. IV. Association of an inhibitor with the active principle. *Jour. Exp. Med.*, July 1, 1932, 56, pp. 107-116.
- ‡—— and ——. Properties of the causative agent of a chicken tumor. VI. Action of the associated inhibitor on mouse tumors. *Jour. Exp. Med.*, October 1, 1932, 56, pp. 483-492.

---

\* Published in *Studies* 82.

‡ To be published in *Studies* 84.

† Published in *Studies* 83.

- †MURPHY, JAMES B., STURM, ERNEST, CLAUDE, ALBERT, and HELMER, OSCAR M. Properties of the causative agent of a chicken tumor. III. Attempts at isolation of the active principle. *Jour. Exp. Med.*, July 1, 1932, 56, pp. 91-106.
- †—, —, FAVILLI, GIOVANNI, HOFFMAN, DONALD C., and CLAUDE, ALBERT. Properties of the causative agent of a chicken tumor. V. Antigenic properties of the Chicken Tumor I. *Jour. Exp. Med.*, July 1, 1932, 56, pp. 117-129.
- †NIGG, CLARA, and LANDSTEINER, K. Note on the cultivation of the typhus fever rickettsia. *Proc. Soc. Exp. Biol. and Med.*, June, 1932, 29, p. 1291.
- †OLITSKY, PETER K., and FORSBECK, FILIP C. The inactivation of mosaic disease virus by pulverizing infected tissue. *Science*, May 13, 1932, 75, pp. 518-519.
- \*—, KNUTTI, RALPH E., and TYLER, JOSEPH R. Corneal reactions to *Bacterium granulosis* and other microorganisms. *Jour. Exp. Med.*, May 1, 1932, 55, pp. 803-813.
- RAKE, GEOFFREY. Meningococcus precipitinogens in the cerebrospinal fluid. *Proc. Soc. Exp. Biol. and Med.*, October, 1932, 30, pp. 75-77.
- ROSAHN, PAUL D., and PEARCE, LOUISE. Comparison of the blood picture in treated and untreated syphilis patients. *Proc. Soc. Exp. Biol. and Med.*, April, 1932, 29, pp. 869-871.
- †SABIN, F. R., DOAN, C. A., and FORKNER, C. E. The production of osteogenic sarcomata and the effects on lymph nodes and bone marrow of intravenous injections of radium chloride and mesothorium in rabbits. *Jour. Exp. Med.*, August 1, 1932, 56, pp. 267-289.
- SADDINGTON, R. S. An intravascular lesion in poliomyelitis induced by feeding in *Macacus cynomolgus*. *Proc. Soc. Exp. Biol. and Med.*, April, 1932, 29, pp. 838-839.
- , Cultivation of herpes virus, and the use of the mouse in its titration. *Proc. Soc. Exp. Biol. and Med.*, May, 1932, 29, pp. 1012-1014.
- †SMITH, FREDERICK, and DICK, MACDONALD. The influence of the plasma colloids on the gradient of capillary permeability. *Jour. Exp. Med.*, September 1, 1932, 56, pp. 371-389.
- †SMITHBURN, KENNETH C. The effect of lymphocytosis induced with embryonic extract on the course of experimental tuberculosis in rabbits. *Jour. Exp. Med.*, August 1, 1932, 56, pp. 173-183.
- †THOMAS, R. M. The diphasic nature of tuberculosis in rabbits after intravenous inoculation with bovine tubercle bacilli. *Jour. Exp. Med.*, August 1, 1932, 56, pp. 185-202.

\* Published in *Studies 82*.

‡ To be published in *Studies 84*.

† Published in *Studies 83*.

WEBSTER, LESLIE T. Experimental epidemiology. *Medicine*, September, 1932, 11, pp. 321-344.

### Chemistry

- †LEVENE, P. A., and CORTESE, FRANK. A note on the use of 1-bromotetramethylglucose for the synthesis of methylated glycosides. *Jour. Biol. Chem.*, October, 1932, 98, pp. 17-19.
- †— and DILLON, ROBERT T. Intestinal nucleotidase and polynucleotidase. *Jour. Biol. Chem.*, May, 1932, 96, pp. 461-477.
- †— and HARRIS, STANTON A. The ribosephosphoric acid from xanthylic acid. II. *Jour. Biol. Chem.*, October, 1932, 98, pp. 9-16.
- †— and MARKER, R. E. Configurational relationships of methylphenyl-, methylcyclohexyl-, and methylhexylcarbinols and of their homologues. *Jour. Biol. Chem.*, August, 1932, 97, pp. 379-391.
- †— and —. Chemical structure and optical rotation. III. The configurational relationship of disubstituted propionic acids containing a cyclohexyl group. Also, a correction to the paper on the configurational relationship of disubstituted propionic acids containing a phenyl group. *Jour. Biol. Chem.*, August, 1932, 97, pp. 563-583.
- †— and —. Maximum rotations and correlation of disubstituted acetic acids containing a methyl group. *Jour. Biol. Chem.*, October, 1932, 98, pp. 1-7.
- †— and RAYMOND, A. L. On the structure of the so called 5-methyl glucose of Ohle and von Vargha. *Jour. Biol. Chem.*, September, 1932, 97, pp. 751-761.
- †— and —. The substitution of glucose in position (4). I. *Jour. Biol. Chem.*, September, 1932, 97, pp. 763-775.
- and —. The chemistry of the carbohydrates and the glycosides, in Luck, J. M., Annual review of biochemistry, Stanford University, Stanford University Press, 1932, 1, pp. 213-246.
- †—, —, and DILLON, ROBERT T. Structure of  $\gamma$ -glycosides. *Jour. Biol. Chem.*, May, 1932, 96, pp. 449-459.
- †— and STEIGER, ROBERT E. Studies on racemization. XI. Action of alkali on polypeptides. *Jour. Biol. Chem.*, October, 1932, 98, pp. 321-332.
- †—, —, and ROTHEN, ALEXANDRE. The relation of chemical structure to the rate of hydrolysis of peptides. VII. Hydrolysis of dipeptides by alkali. *Jour. Biol. Chem.*, September, 1932, 97, pp. 717-726.

---

† Published in *Studies 83*.

‡ To be published in *Studies 84*.

†LEVENE, P. A., and TIPSON, R. STUART. The ring structure of guanosine. *Jour. Biol. Chem.*, August, 1932, 97, pp. 491-495.

†LIPMANN, FRITZ A., and LEVENE, P. A. Serinephosphoric acid obtained on hydrolysis of vitellinic acid. *Jour. Biol. Chem.*, October, 1932, 98, pp. 109-114.

#### *Chemical Pharmacology*

†JACOBS, WALTER A. The ergot alkaloids. I. The oxidation of ergotinine. *Jour. Biol. Chem.*, September, 1932, 97, pp. 739-743.

†— and BIGELOW, NEWELL M. The sugar of sarmentocymarin. *Jour. Biol. Chem.*, May, 1932, 96, p. 355.

†— and —. Ouabain or g-strophanthin. *Jour. Biol. Chem.*, June, 1932, 96, pp. 647-658.

†— and ELDERFIELD, ROBERT C. Strophanthin. XXV. The allocation of the lactone group of strophanthidin and related aglucones. *Jour. Biol. Chem.*, May, 1932, 96, pp. 357-366.

†— and —. Strophanthin. XXVII. Ring III of strophanthidin and related aglucones. *Jour. Biol. Chem.*, September, 1932, 97, pp. 727-737.

†— and FLECK, ELMER E. The partial dehydrogenation of oleanolic acid. *Jour. Biol. Chem.*, May, 1932, 96, pp. 341-354.

†— and —. Strophanthin. XXVI. A further study of the dehydrogenation of strophanthidin. *Jour. Biol. Chem.*, July, 1932, 97, pp. 57-61.

#### *Experimental Surgery*

CARREL, ALEXIS. Tuffier. *La Revue de Paris*, September 15, 1932, 39, pp. 347-359.

—. The physiological substratum of malignancy, in Contributions to the medical sciences in honor of Dr. Emanuel Libman, New York, The International Press, 1932, 1, pp. 289-295.

\*PARKER, RAYMOND C. The races that constitute the group of common fibroblasts. I. The effect of blood plasma. *Jour. Exp. Med.*, May 1, 1932, 55, pp. 713-734.

†—. The functional characteristics of nine races of fibroblasts. *Science*, September 2, 1932, 76, pp. 219-220.

#### *General Physiology*

†ANSON, M. L., and MIRSKY, A. E. The estimation of pepsin with hemoglobin. *Jour. Gen. Physiol.*, September 20, 1932, 16, pp. 59-63.

---

\* Published in *Studies 82*.

† To be published in *Studies 84*.

† Published in *Studies 83*.

- †BLINKS, L. R. Migration of anthocyan pigment in plant cells during the flow of electric current, and reversal by acids and alkalies. *Proc. Soc. Exp. Biol. and Med.*, June, 1932, 29, pp. 1186-1188.
- ‡—. Protoplasmic potentials in *Halicystis*. II. The effects of potassium on two species with different saps. *Jour. Gen. Physiol.*, September 20, 1932, 16, pp. 147-156.
- †DAMON, E. B. Dissimilarity of inner and outer protoplasmic surfaces in *Valonia*. III. *Jour. Gen. Physiol.*, May 20, 1932, 15, pp. 525-535.
- IRWIN, MARIAN. Relation of absorption coefficients to rate of penetration of dye into the cell. *Proc. Soc. Exp. Biol. and Med.*, May, 1932, 29, pp. 993-995.
- . Cell models representing various types of living cells. *Proc. Soc. Exp. Biol. and Med.*, May, 1932, 29, pp. 995-996.
- . Effect of potassium chloride on rate of penetration of dyes. *Proc. Soc. Exp. Biol. and Med.*, June, 1932, 29, p. 1234.
- . Importance of the internal phase boundary in penetration of dye into the vacuole. *Proc. Soc. Exp. Biol. and Med.*, June, 1932, 29, pp. 1234-1235.
- †JACQUES, A. G., and OSTERHOUT, W. J. V. The accumulation of electrolytes. IV. Internal *versus* external concentrations of potassium. *Jour. Gen. Physiol.*, May 20, 1932, 15, pp. 537-550.
- †NORTHROP, JOHN H. Crystalline pepsin. *Ergebn. Enzymforsch.*, 1932, 1, pp. 302-324.
- ‡—. Crystalline pepsin. IV. Hydrolysis and inactivation by acid. *Jour. Gen. Physiol.*, September 20, 1932, 16, pp. 33-40.
- ‡—. Pepsin activity units and methods for determining peptic activity. *Jour. Gen. Physiol.*, September 20, 1932, 16, pp. 41-58.
- . The story of the isolation of crystalline pepsin and trypsin. *Scient. Month.*, October, 1932, 35, pp. 333-340.
- OSTERHOUT, W. J. V. Studies on large cells. *The Robertson Memorial Volume, Australian Jour. Exp. Biol. and Med. Sc.*, 1932, 9, pp. 135-139.
- ‡—. The kinetics of penetration. IV. Diffusion against a growing potential gradient in models. *Jour. Gen. Physiol.*, September 20, 1932, 16, pp. 157-163.
- ‡— and STANLEY, W. M. The accumulation of electrolytes. V. Models showing accumulation and a steady state. *Jour. Gen. Physiol.*, July 20, 1932, 15, pp. 667-689.

---

† Published in *Studies 83*.

‡ To be published in *Studies 84*.



### Physical Chemistry

- LONGSWORTH, LEWIS G. Solutions. Annual survey of American chemistry (1931), New York, The Chemical Catalog Company, Inc., 1932, 6, pp. 7-22.
- †——. Transference numbers of aqueous solutions of potassium chloride, sodium chloride, lithium chloride and hydrochloric acid at 25° by the moving boundary method. *Jour. Am. Chem. Soc.*, July, 1932, 54, pp. 2741-2758.
- MACINNES, D. A., and LONGSWORTH, L. G. Transference numbers by the method of moving boundaries. Theory, practice, and results. *Chem. Rev.*, October, 1932, 11, pp. 171-230.
- , SHEDLOVSKY, THEODORE, and LONGSWORTH, LEWIS G. The limiting equivalent conductances of several univalent ions in water at 25°. *Jour. Am. Chem. Soc.*, July, 1932, 54, pp. 2758-2762.
- †MICHAELIS, L. Theory of the reversible two-step oxidation. *Jour. Biol. Chem.*, June, 1932, 96, pp. 703-715.
- . Wilhelm Ostwald. *Scient. Month.*, June, 1932, 34, pp. 566-570.
- †——. Ein Reduktions-Indikator im Potentialbereich der Wasserstoff-überspannung. *Biochem. Z.*, July 19, 1932, 250, pp. 564-567.
- . Die elektrometrische Messung der Wasserstoffionenkonzentration und ihre Anwendungen. I. Potentiometrische Methoden, in Klein, G., *Handbuch der Pflanzenanalyse. Allgemeine Methoden der Pflanzenanalyse*, Vienna, Julius Springer, 1931, 1, pp. 434-455.
- †SCHUBERT, MAXWELL. Complex types involved in the catalytic oxidation of thiol acids. *Jour. Am. Chem. Soc.*, October, 1932, 54, pp. 4077-4085.

### Biophysics

- †LUYET, BASILE J. The effects of ultraviolet, X-, and cathode rays on the spores of Mucoraceae. *Radiology*, May, 1932, 18, pp. 1019-1022.
- WYCKOFF, RALPH W. G. Micro motion pictures of *B. shigae* growing under conditions favoring filterability and life cycle forms. *Science*, September 9, 1932, 76, p. 240.

### THE DEPARTMENT OF THE HOSPITAL

- †ANTHONY, ALBERT J., COHN, ALFRED E., and STEELE, J. MURRAY. Studies of the influence of pulmonary motion and distention on movements of the thorax. I. Chemical and nervous factors involved in establishing apnea. II. The relation between pulmonary and thoracic movements. *Am. Jour. Physiol.*, October 1, 1932, 102, pp. 167-182.

---

† Published in *Studies* 83.

‡ To be published in *Studies* 84.

- AVERY, OSWALD T. The rôle of specific carbohydrates in pneumococcus infection and immunity. *Ann. Int. Med.*, July, 1932, 6, pp. 1-9.
- \*—, GOEBEL, WALTHER F., and BABERS, FRANK H. Chemo-immunological studies on conjugated carbohydrate-proteins. VII. Immunological specificity of antigens prepared by combining  $\alpha$ - and  $\beta$ -glucosides of glucose with proteins. *Jour. Exp. Med.*, May 1, 1932, 55, pp. 769-780.
- COHN, ALFRED E. Coronary thrombosis or senescence: a case for diagnosis, in Contributions to the medical sciences in honor of Dr. Emanuel Libman, New York, The International Press, 1932, 1, pp. 327-336.
- ‡— and STEELE, J. MURRAY. Studies on the effect of the action of digitalis on the output of blood from the heart. I. The effect on the output of the dog's heart in heart-lung preparations. *Jour. Clin. Inv.*, September, 1932, 11, pp. 871-895.
- \*GOEBEL, WALTHER F., BABERS, FRANK H., and AVERY, OSWALD T. Chemo-immunological studies on conjugated carbohydrate-proteins. VI. The synthesis of *p*-aminophenol  $\alpha$ -glucoside and its coupling with protein. *Jour. Exp. Med.*, May 1, 1932, 55, pp. 761-767.
- ‡GOODNER, KENNETH, and DUBOS, RENÉ. Studies on the quantitative action of a specific enzyme in Type III pneumococcus dermal infection in rabbits. *Jour. Exp. Med.*, October 1, 1932, 56, pp. 521-530.
- \*JULIANELLE, L. A., and RHOADS, C. P. Reactions of rabbits to intracutaneous injections of pneumococci and their products. VII. The relation of hypersensitiveness to lesions in the lungs of rabbits infected with pneumococci. *Jour. Exp. Med.*, May 1, 1932, 55, pp. 797-802.
- ‡KELLEY, WILLIAM H. The antipneumococcus properties of normal swine serum. *Jour. Exp. Med.*, June 1, 1932, 55, pp. 877-888.
- \*MCEWEN, CURRIER. Cytologic studies on rheumatic fever. I. The characteristic cell of the rheumatic granuloma. *Jour. Exp. Med.*, May 1, 1932, 55, pp. 745-759.
- MIRSKY, A. E., and ANSON, M. L. Animal pigments, in Luck, J. M., Annual review of biochemistry, Stanford University, Stanford University Press, 1932, 1, pp. 535-550.
- ‡PAGE, IRVINE H., and ALVING, ALF. The effect of naso-pharyngeal operations on renal function. *Jour. Clin. Inv.*, September, 1932, 11, pp. 1037-1052.

---

\* Published in *Studies* 82.

† Published in *Studies* 83.

‡ To be published in *Studies* 84.

- ‡PAGE, IRVINE H., and VAN SLYKE, DONALD D. A simple test for plasma protein contents below the edema-producing level. *Jour. Am. Med. Assn.*, October 15, 1932, 99, p. 1344.
- PETERS, JOHN P., and VAN SLYKE, DONALD D. Quantitative clinical chemistry. Volume II. Methods, Baltimore, The Williams and Wilkins Company, 1932, 957 pages.
- RIVERS, T. M. Viruses. *Science*, June 24, 1932, 75, pp. 654-656.
- †——. The nature of viruses. *Physiol. Rev.*, July, 1932, 12, pp. 423-452.
- . Relation of filtrable viruses to diseases of the nervous system. *Arch. Neurol. and Psychiat.*, October, 1932, 28, pp. 757-777.
- and BERRY, G. P. A laboratory method for the diagnosis of psittacosis in man. *Proc. Soc. Exp. Biol. and Med.*, May, 1932, 29, pp. 942-944.
- †—— and SCHWENTKER, FRANCIS F. A virus disease of parrots and parakeets differing from psittacosis. *Jour. Exp. Med.*, June 1, 1932, 55, pp. 911-924.
- ‡SPRUNT, DOUGLAS H. Infectious myxomatosis (Sanarelli) in pregnant rabbits. *Jour. Exp. Med.*, October 1, 1932, 56, pp. 601-608.
- STEELE, J. MURRAY. Fever in certain cases of heart failure. *Proc. Soc. Exp. Biol. and Med.*, May, 1932, 29, pp. 991-993.
- ‡STEWART, HAROLD J., and COHN, ALFRED E. Studies on the effect of the action of digitalis on the output of blood from the heart. II. The effect on the output of the hearts of dogs subject to artificial auricular fibrillation. *Jour. Clin. Inv.*, September, 1932, 11, pp. 897-916.
- †—— and ——. Studies on the effect of the action of digitalis on the output of blood from the heart. III. Part 1. The effect on the output in normal human hearts. Part 2. The effect on the output of hearts in heart failure with congestion, in human beings. *Jour. Clin. Inv.*, September, 1932, 11, pp. 917-955.
- ‡STILLMAN, ERNEST G. Reaction of rabbits following inhalation of Type III pneumococci. *Jour. Infect. Dis.*, May-June, 1932, 50, pp. 542-549.
- ‡VAN SLYKE, DONALD D., ALVING, A., and ROSE, W. B. Studies of urea excretion. VII. The effects of posture and exercise on urea excretion. *Jour. Clin. Inv.*, September, 1932, 11, pp. 1053-1064.
- †—— and COPE, C. L. Simplified colorimetric determination of blood urea clearance. *Proc. Soc. Exp. Biol. and Med.*, June, 1932, 29, pp. 1169-1174.

---

† Published in *Studies 83*.

‡ To be published in *Studies 84*.

THE DEPARTMENT OF ANIMAL AND PLANT PATHOLOGY

- †GLASER, R. W. Studies on *Neoaplectana glaseri*, a nematode parasite of the Japanese beetle (*Popillia japonica*). *State New Jersey Dept. Agric., Bureau Plant Ind., Circ. No. 211*, April, 1932, pp. 3-34.
- †GOWEN, JOHN W., and GAY, E. H. Physiological factors necessary to alleviate genetic lethal anemia in mice. *Am. Naturalist*, July-August, 1932, 66, pp. 289-300.
- †JONES, F. S., LITTLE, RALPH B., and ORCUTT, MARION. Vibrios from the intestinal tract of the gray rat. *Jour. Exp. Med.*, June 1, 1932, 55, pp. 939-944.
- LITTLE, RALPH B. Demodectic (follicular) mange in cattle. *Jour. Am. Vet. Med. Assn.*, June, 1932, 80, n.s. 33, pp. 922-926.
- . Ano-vulvitis in cattle. *Vet. Med.*, October, 1932, 27, pp. 432-434.
- †SARLES, MERRITT P. Development of an acquired resistance in rabbits by repeated infection with an intestinal nematode, *Trichostrongylus calcaratus* Ransom, 1911. *Jour. Parasitol.*, September, 1932, 19, pp. 61-82.
- †SEIFRIED, OSKAR. Das Nervensystem bei der A-Avitaminose der Hühner. *Arch. wissenschaft. u. prakt. Tierheilk.*, June 10, 1932, 65, pp. 140-156.
- †— and CAIN, C. B. Histological studies on hog cholera. II. Lesions of the vascular system. *Jour. Exp. Med.*, September 1, 1932, 56, pp. 345-349.
- †— and — . Histological studies on hog cholera. III. Lesions in the various organs. *Jour. Exp. Med.*, September 1, 1932, 56, pp. 351-362.
- †SHOPE, RICHARD E. Studies on immunity to swine influenza. *Jour. Exp. Med.*, October 1, 1932, 56, pp. 575-585.
- †STOLL, NORMAN R. Note on re-infection under "natural" conditions with a gut nematode of the rabbit. *Jour. Parasitol.*, September, 1932, 19, pp. 54-60.

† Published in *Studies 83*.

‡ To be published in *Studies 84*.

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*.

Other publications of The Rockefeller Institute are:

**The Journal of Experimental Medicine**, edited by **Simon Flexner, M.D.**, and **Peyton Rous, M.D.**

**The Journal of General Physiology**, edited by **W. J. Crozier**,  
**John H. Northrop**, and **W. J. V. Osterhout**.

**Monographs of The Rockefeller Institute for Medical  
Research.**

---

All correspondence should be addressed to the

DIVISION OF PUBLICATION  
THE ROCKEFELLER INSTITUTE FOR MEDICAL RESEARCH  
YORK AVENUE AND 66TH STREET  
NEW YORK, N. Y.