

**THE AMERICAN FEDERATION FOR CLINICAL RESEARCH
TWENTY-SECOND ANNUAL MEETING**

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THE AMERICAN FEDERATION FOR CLINICAL RESEARCH TWENTY-SECOND ANNUAL MEETING

GENERAL SESSION

Sunday, May 2, 1965

8:50 a.m. Steel Pier Theater

(The time for the presentation of each paper will be limited to 12 minutes.)

Chairman: Dr. Morton D. Bogdonoff

1. Communicability of Rubella among Young Adult Women Exposed to Virus-positive Newborns. G. M. SCHIFF, M. S. DINE, G. I. OSSENBECK, and W. K. SCHUBERT, Cincinnati, Ohio.
2. Pathogenic Role of Coagulation in Human Glomerulonephritis. P. VASSALLI, R. McCLUSKEY, G. GALLO, and D. S. BALDWIN,* New York, N. Y.
3. The Control of Phosphate Excretion in Uremia. E. SLATOPOLSKY, L. GRADOWSKA, C. KASHEMSANT, R. KELTNER, C. MANLEY, and N. S. BRICKER,* St. Louis, Mo.
4. The Conversion of Protein Nitrogen into N₂ by Certain Mammals Including Man. G. COSTA, L. ULLRICH, F. KANTOR, and J. F. HOLLAND, Buffalo, N. Y.
5. Galactokinase and the Control of Galactose Metabolism. P. CUATRECASAS and S. SEGAL,* Bethesda, Md.
6. Neutralization of LATS by Thyroid Microsomal Fraction. G. N. BEALL and D. H. SOLOMON,* Los Angeles, Calif.

*ASCI, active member.

†ASCI, emeritus member.

The President's Address: Dr. Morton D. Bogdonoff

Intermission

7. An Extra-adrenal Action of ACTH on Insulin Secretion in Patients with Addison's Disease. L. A. FROHMAN, S. GENUTH, and H. E. LEBOVITZ, Durham, N. C.
8. Mechanism of *In Vitro* Photohemolysis in Erythropoietic Protoporphyrin (EPP). A. S. FLEISCHER, L. C. HARBER, J. S. COOK, and R. L. BAER, New York, N. Y.
9. Membrane Defects in Lysis of Normal and Paroxysmal Nocturnal Hemoglobinuria (PNH) Red Cells by Complement. W. F. ROSSE, R. DOURMASHKIN, and J. HUMPHREY, London, England (introduced by J. Fahey).
10. Effect of Thoracic Duct Lymph Drainage on the Immune Response in Man. G. L. IRVIN III, W. S. TUNNER, and P. P. CARBONE, Bethesda, Md.
11. Circulatory Regulation after Cardiac Transplantation: Direct and Reflex Activation of the Central Nervous System (CNS). T. COOPER, C. N. PEISS, V. L. WILLMAN, and W. C. RANDALL, Chicago, Ill.
12. Steatorrhea of Blind Loop Syndrome: Role of Altered Fatty Acid and Bile Acid Metabolism. Y. S. KIM, N. SPRITZ, M. BLUM, J. TERZ, and P. SHERLOCK, New York, N. Y.
13. Inheritance of Quantitative Expression of G-6-PD Deficiency in Heterozygous Negro Females—A Twin Study. G. L. BREWER, J. C. GALL, M. S. HONEYMAN, H. GERSHOWITZ, R. J. DERN, and G. G. HAMES, Ann Arbor, Mich., Hartford, Conn., Chicago, Ill., and Claxton, Ga.

PROGRAMS OF THE SECTIONAL MEETINGS

CARDIOVASCULAR

Sunday, May 2, 1965

Afternoon Session

2:30 p.m. Strand Theater, Boardwalk

Chairman: Dr. Hadley L. Conn, Jr.

1. Biochemical Determinants of Long Chain Fatty Acid Oxidation in the Newborn Heart. B. WITTELS and R. BRESSLER,* Durham, N. C. ASCI
2. Biochemical Studies of Energy Metabolism in the Failing Human Heart. C. A. CHIDSEY, E. C. WEINBACH, P. E. POOL, and A. G. MORROW, Bethesda, Md. (introduced by R. S. Gordon*). ASCI
3. Studies of Protein and Lipoprotein Synthesis in Human and Canine Blood Vessels. A. V. CHOBANIAN, S. R. COOPERBAND, and W. HOLLANDER,* Boston, Mass. (introduced by R. W. Wilkins †). ASCI
4. Cardiovascular and Metabolic Effects of Adenosine 3',5'-Monophosphate in Man. R. A. LEVINE, Denver, Colo. (introduced by S. G. Blount, Jr. †). ASCI
5. Origin of the Ejection Sound in Aortic Stenosis. E. W. HANCOCK, Palo Alto, Calif. AFCR
6. Production of a Spectrum of Ectopic Ventricular Rhythms through Enhanced Sympathetic Discharge. H. P. MAUCK, JR., C. H. HOCKMAN, E. C. HAGSTROM, and E. C. HOFF, Richmond, Va. AFCR
7. The Antihypertensive Action of Metaraminol (Aramine) in Man. J. R. CROUT, R. R. JOHNSTON, W. R. WEBB, and P. A. SHORE, Dallas, Texas. AFCR
8. Velocity of Contraction: A Major Determinant of Myocardial Oxygen Consumption. E. H. SONNENBLICK, J. ROSS, JR., J. W. COVELL, G. KAISER, and E. BRAUNWALD,* Bethesda, Md. ASCI
9. Excretion of Catecholamine Metabolites by Normal Children and Those with Familial Dysautonomia. S. GITLOW, M. MENDLOWITZ, † E. K. WILK, R. WOLF, and J. GLICK, New York, N. Y. ASCI
10. Clearance of Lactate and Pyruvate from Arterial Blood Following Exercise in Subjects with Heart Disease. E. L. ROLETT and D. T. YOUNG, Chapel Hill, N. C. AFCR

DERMATOLOGY

Sunday, May 2, 1965

Afternoon Session

2:30 p.m. Terrace Room, Colton Manor

Chairman: Dr. Thomas B. Fitzpatrick

1. The Occurrence of Lysosomal Enzymes in Blister Fluid. J. G. SMITH, JR., C. F. CHURCH, and P. G. BURK, Durham, N. C. (introduced by W. M. Nicholson †). ASCI

2. The Human Sebaceous Gland as an Androgen Indicator: Experiences with Norethindrone. J. S. STRAUSS and P. E. POCHI, Boston, Mass. AFCR
3. Further Purification of a Pituitary Preparation with Sebotropic Activity. L. P. WOODBURY, P. ORTEGA, and A. L. LORINCZ, Chicago, Ill. AFCR
4. Submicroscopic Features of the Degranulation of the Human Mast Cell in Localized Mastocytosis. G. F. OBLAND and F. PARKER, Seattle, Wash. (introduced by C. Rubin*). AFCR
5. Heparin Metabolism in Systemic Mast Cell Disease. D. J. DEMIS and B. McALLISTER, St. Louis, Mo. AFCR
6. Modification by Antibody of Frog Skin Melanocyte Response to α -, β -MSH and ACTH. J. McGUIRE and T. GOODFRIEND, New Haven, Conn., and Waltham, Mass. AFCR
7. Keratin and the Human Epidermal Water Barrier. R. G. CROUNSE, Baltimore, Md. AFCR
8. Urocanic Acid Metabolism in the Epidermis. H. BADEN and M. PATHAK, Boston, Mass. AFCR

ENDOCRINOLOGY

Sunday, May 2, 1965

Afternoon Session

2:30 p.m. Carolina Room, Chalfonte

Chairman: Dr. Melvin M. Grumbach

1. Effect of Nonthyroidal Disease and Surgical Trauma on the Turnover of I^{131} -labeled Thyroxine-binding Prealbumin (TBPA). J. H. OPPENHEIMER, G. BERNSTEIN, J. C. SMITH, and M. I. SURKS, New York, N. Y. (introduced by L. Leiter †). ASCI
2. Extrarenal Regulation of Aldosterone Secretion in Primary Aldosteronism. J. C. MELBY,* T. E. WILSON, S. L. DALE, and R. V. HICKLER, Boston, Mass. ASCI
3. The Acromegalic Liver: An Excretory Giant. R. PREISIG, T. Q. MORRIS, J. C. SHAVER, M. S. ROGINSKY, and N. P. CHRISTY,* New York, N. Y. ASCI
4. Suppression of ACTH Release Following Discontinuation of Corticosteroid Therapy in Rats. R. B. MIMS and D. H. NELSON,* Los Angeles, Calif. AFCR
5. Estrogen Stimulation of Growth Hormone Release. A. G. FRANTZ and M. T. RABKIN, Boston, Mass. (introduced by A. P. Forbes †). ASCI
6. The Pathogenesis of Colloid Goiter. M. A. GREER,* H. STUDER, and A. K. STOTT, Portland, Ore. ASCI
7. Dissociation of Immunological and Biological Activities of ACTH. L. L. SPARKS, H. IMURA, S. D. GRANT, and P. H. FORSHAM, † San Francisco, Calif. ASCI

8. A New Gonadotrophin Stimulation Test for Testosterone Reserve. C. BRIEFER, JR., H. E. ROTNER, A. P. FORBES,† and B. KLIMAN, Boston, Mass. AFCR
9. Renin in Pregnancy and the Menstrual Cycle. B. M. WINER, Boston, Mass. (introduced by B. Alexander †). ASCI
10. The Effect of Physical Stress and Exercise in the Human on Growth Hormone and Insulin Secretion. D. S. SCHALCH, Rochester, N. Y. (introduced by S. Reichlin). AFCR

GASTROENTEROLOGY

Sunday, May 2, 1965

Afternoon Session

2:30 p.m. Rutland Room, Haddon Hall

Chairman: Dr. Kurt J. Isselbacher

1. Histidine Decarboxylase Induction Following Portacaval Shunt: A Possible Mechanism for Gastric Acid Hypersecretion. J. E. FISCHER and S. H. SNYDER, Bethesda, Md. (introduced by O. Cope †). ASCI
2. Gastric Mucosal Hydrogen Ion Transfer and Adrenocorticoids. A. R. COOKE, R. M. PRESHAW, and M. I. GROSSMAN,* Los Angeles, Calif. AFCR
3. Morphologic Response of Human Small Intestine to X-ray Exposure. J. S. TRIER and T. H. BROWNING, Madison, Wis. AFCR
4. Absorption and Metabolism of Radioactive β -Carotene and Vitamin A in Man. D. S. GOODMAN,* R. BLOMSTRAND, B. WERNER, H. S. HUANG, and T. SHIRATORI, New York, N. Y., and Stockholm, Sweden. ASCI
5. Interrelation between Jejunal Absorption of Sodium, Glucose, and Water in Man. S. J. MALAWER, M. EWTON, J. S. FORDTRAN, and F. J. INGELFINGER,† Boston, Mass., and Dallas, Texas. ASCI
6. Hepatic Blood Flow Measured with Krypton⁸⁵. M. HOLLENBERG and J. DOUGHERTY, New York, N. Y. AFCR
7. The Effect of Ethanol on Hepatic Secretion of Triglycerides into Plasma. D. ZAKIM, D. ALEXANDER, and M. H. SLEISENGER,* New York, N. Y. ASCI
8. Mesenchymal Cell Proliferation in Persistent Viral Hepatitis. C. M. LEEVY, M. JABBARI, and W. TENHOVE, Jersey City, N. J. (introduced by H. Jeghers †). ASCI
9. Lithocholic Acid-induced Cholechololithiasis in Rats. R. H. PALMER, Chicago, Ill. (introduced by H. T. Ricketts †). ASCI
10. Excretion of Urobilinogen-H⁸. R. LESTER, W. H. KIRSTEN, and P. D. KLEIN, Chicago, Ill. AFCR

GENETICS

Sunday, May 2, 1965

Afternoon Session

2:30 p.m. Virginia Theater, Boardwalk

Chairman: Dr. Arno G. Motulsky

1. *In Vitro* Inhibition of Brain Protein Synthesis: An Approach to the Molecular Pathology of Maple Syrup Urine Disease and Phenylketonuria. S. H. APPEL, Durham, N. C. (introduced by J. B. Wynaerden*). ASCI
2. Lack of Autosomal Inactivation at the Locus Controlling Branched Chain Amino Acid Decarboxylase in Man. B. SIGMAN and S. M. GARTLER, Seattle, Wash. (introduced by A. G. Motulsky). AFCR
3. The Duarte Variant of Galactose-1-Phosphate Uridyl Transferase: A Prevalent Allele of the Gene for Galactosemia. E. BEUTLER,* M. C. BALUDA, P. STURGEON, and R. W. DAY, Los Angeles and Berkeley, Calif. ASCI
4. Cystinuria: Biochemical Evidence for Two Genetically Distinct Diseases. L. E. ROSENBERG and S. SEGAL,* Bethesda, Md. ASCI
5. The Possible Association of Erythrocyte Glucose-6-Phosphate Dehydrogenase Deficiency and Regional Enteritis. R. G. SHEEHAN, R. J. LINDEMAN, H. J. MEYER, J. F. PATTERSON, and T. F. NECHELES, Boston, Mass. (introduced by W. Dameshek †). ASCI
6. Studies on the Hybridization of Mammalian Cells in Culture. J. W. LITTLEFIELD,* Boston, Mass. ASCI
7. Unusual Karyotypes of Human Glial Tumors. H. A. LUBS, JR., New Haven, Conn. AFCR
8. Pattern of RNA Synthesis in Phytohemagglutinin (PHA)-stimulated Lymphocytes. A. D. RUBIN and H. L. COOPER, Bethesda, Md. AFCR
9. Ribonucleic Acid Biosynthesis in Human Leukocytes. M. J. CLINE, San Francisco, Calif. (introduced by H. Fudenberg*). ASCI
10. Synthesis and Degradation of RNA by Normal and Leukemic Leukocytes. R. SILBER, K. W. UNGER, and J. KELLER, New York, N. Y. (introduced by J. W. Uhr*). ASCI

HEMATOLOGY

Sunday, May 2, 1965

Afternoon Session

2:30 p.m. Vernon Room, Haddon Hall

Chairman: Dr. James H. Jandl

1. Biochemical Lesion in Dilantin-induced Erythroid Aplasia. A. A. Yunis, G. K. ARIMURA, C. L. LUTCHER, J. BLASQUEZ, and M. J. HALLORAN, Miami, Fla., and St. Louis, Mo. (introduced by W. J. Harrington*). ASCI

2. Cytogenetic Observations in Pernicious Anemia and Folic Acid Deficiency. C. W. HEATH, JR.,† Boston, Mass. AFCR
3. The Mechanism of Action of Androgens on Erythropoiesis. C. W. GURNEY* and W. FRIED, Chicago, Ill. ASCI
4. Erythropoietin and Erythropoiesis Inhibitor Activity in Man. W. H. WHITCOMB, M. MOORE, R. DILLE, L. HUMMER, and R. M. BIRD, Oklahoma City, Okla. (introduced by R. H. Bayley †). ASCI
5. The Regulation of Heme Biosynthesis. H. MARVER, D. TSCHUDY, M. PERLROTH, and A. COLLINS, Bethesda, Md. AFCR
6. Metabolic Dependence of Erythrocyte Membrane Structure. R. I. WEED, A. J. BOWDLER, and C. F. REED, Rochester, N. Y. AFCR
7. Concomitant Increase of Membrane Phosphatide Metabolism and Sodium Transport in Hereditary Spherocytosis (HS). H. S. JACOB and M. L. KARNOVSKY, Boston, Mass. (introduced by J. H. Jandl*). ASCI
8. Pathogenesis of Neonatal Neutropenia. P. LALEZARI and G. E. BERNARD, New York, N. Y. AFCR
9. Physiologic Observations of Human Cross Circulation. J. W. ESCHBACH, JR., R. B. EPSTEIN, J. M. BURNELL, and E. D. THOMAS,* Seattle, Wash. ASCI
10. Pulmonary Megakaryocytes: Their Origin and Significance. R. M. KAUFMAN,* R. AIRO, S. POLLACK, and W. H. CROSBY,† Washington, D. C. ASCI
7. The Effect of Natural Estrogens in Hydroxyproline Excretion in Man. F. H. KATZ and A. KAPPAS,* Chicago, Ill. ASCI
8. The Metabolism of an I¹³¹-labeled Human Complement Component. C. A. ALPER, A. S. LEVIN, and F. S. ROSEN, Boston, Mass. (introduced by C. A. Janeway †). ASCI
9. Fixation of Complement Components to Autoantibody Eluted from Human RBC. J. P. LEDDY, R. F. BAKEMEIER, and J. H. VAUGHAN,* Rochester, N. Y. ASCI
10. Acute Hemolytic Anemia Due to Anti-i; Frequent Cold Agglutinins in Infectious Mononucleosis. R. CALVO, W. STEIN, S. KOCHWA, and R. E. ROSENFELD, New York, N. Y. (introduced by L. J. Soffer †). ASCI

INFECTIOUS DISEASES

Sunday, May 2, 1965

Afternoon Session

2:30 p.m. Viking Room, Haddon Hall

Chairman: Dr. George Gee Jackson

1. Bacterial Interference: Further Studies of Mechanism. B. F. ANTHONY and L. W. WANNAMAKER,* Minneapolis, Minn. AFCR
2. Isolation of Protoplasts in Human Infection. P. CHARACHE and D. KASLICK, Baltimore, Md., and Boston, Mass. (introduced by F. R. Fekety). AFCR
3. Phagocytosis of PPLO by Mononuclear Cells. D. ZUCKER-FRANKLIN, M. DAVIDSON, B. GESNER, and L. THOMAS,* New York, N. Y. ASCI
4. Cytomegalovirus Infections after Renal Homotransplantation. J. E. CRAIGHEAD, R. E. KANICH, and G. J. DAMMIN,† Boston, Mass. ASCI
5. Nasal Secretion Antibody in the Rhinovirus Common Cold. T. R. CATE, R. D. ROSSEN, R. G. DOUGLAS, and R. B. COUCH, Bethesda, Md. AFCR
6. Differing Effects of Immunity Induced by Infection and Inactivated Influenza Virus Vaccine on Transmission of Infection. J. L. SCHULMAN, New York, N. Y. (introduced by E. D. Kilbourne*). ASCI
7. Interferon Study in Volunteers Infected with Asian Influenza. R. L. JAO, E. F. WHEELOCK, and G. G. JACKSON,* Chicago, Ill., and Cleveland, Ohio. ASCI
8. Tolerance to the Induction of Interferons by Endotoxin and Virus. M. Ho* and Y. KONO, Pittsburgh, Pa. ASCI
9. The Pyrogenic Refractory State during Continuous Intravenous Infusions of Bacterial Endotoxin. S. E. GREISMAN* and W. E. WOODWARD, Baltimore, Md. ASCI
10. Systemic Activity of Antiviral Compounds in Lethal Vaccinia Infections in Rabbits. D. S. FEDSON, R. W. MCCOLLUM, and P. CALABRESI, New Haven, Conn. AFCR

IMMUNOLOGY AND CONNECTIVE TISSUE

Sunday, May 2, 1965

Afternoon Session

2:30 p.m. West Room, Haddon Hall

Chairman: Dr. Melvin H. Kaplan

1. The Fd Fragment: A Third Structural Unit of G Immunoglobulins? E. C. FRANKLIN* and B. FRANGIONE, New York, N. Y. ASCI
2. Impaired *In Vitro* Lymphocyte Transformation in Hodgkin's Disease. E. M. HERSH and J. J. OPPENHEIM, Bethesda, Md. AFCR
3. Induction of Lysosomes in Lymphocytes by Antigens and Mitotic Stimulants. R. HIRSCHORN, J. M. KAPLAN, K. HIRSCHORN,* and G. WEISSMANN,* New York, N. Y. AFCR
4. Differences between Acriflavine and Starvation-induced Immunosuppression. S. C. KRAFT, J. S. SAMUELSON, and R. S. FARR,* La Jolla, Calif. AFCR
5. Suppression of Delayed Hypersensitivity *In Vitro* by Inhibition of Protein Synthesis. J. R. DAVID, New York, N. Y. (introduced by H. S. Lawrence †). ASCI
6. A Collagen-like Plasma Protein in Hodgkin's Disease and Experimental Fever in Man. E. C. LEROY, S. M. WOLFF, P. P. CARBONE, and A. SJOERDAMA,* Bethesda, Md. ASCI

METABOLISM

Sunday, May 2, 1965

Afternoon Session

2:30 p.m. Music Room, Chalfonte

Chairman: Dr. William P. Deiss, Jr.

1. Effect of Thyrocalcitonin on the Partition of Plasma Calcium. H. GITELMAN, S. KUKOLJ, and L. G. WELT,† Chapel Hill, N. C. AFCR
2. Heparin Osteoporosis. G. NICHOLS, JR.,* G. C. GRIF-FITH, and J. D. ASHER, Boston, Mass., and Los Angeles, Calif. ASCI
3. Fluoride Inhibition of Bone Collagen Synthesis. W. A. PECK, I. ZIPKIN, and G. D. WHEDON, Bethesda, Md. (introduced by L. Laster). AFCR
4. A Functional Role for Plasma Alpha₁ Lipoprotein. R. I. LEVY, R. S. LEES, and D. S. FREDRICKSON,* Bethesda, Md. ASCI
5. The Differential Nature of the Defect in Hepatic Lipogenesis in Acute Versus Chronic Insulin Deprivation. D. M. KIPNIS* and R. KALKHOFF, St. Louis, Mo. ASCI
6. The Long-Term Stability of Triglyceride Molecules in Adipose Tissue. E. GORDIS, New York, N. Y. (introduced by V. P. Dole†). ASCI
7. The Biologic Activity of Insulin A and B Chains as Determined in the Rat Diaphragm and Epididymal Fat Pad. J. C. MEEK and R. E. BOLLINGER, Kansas City, Kan. AFCR
8. Is There Endogenous Over-Production of Glucose in Obesity? R. A. ARKY and N. FREINKEL,* Boston, Mass. AFCR
9. The Metabolic Effects in Man of Bovine Growth Hormone Digested with Trypsin. M. SONENBERG,* C. A. FREE, J. M. DELLACHA, G. BONDONNA, A. HAY-MOWITZ, and A. C. NADLER, New York, N. Y. ASCI

NEOPLASTIC DISEASES

Sunday, May 2, 1965

Afternoon Session

2:30 p.m. Garden Room, Haddon Hall

Chairman: Dr. John L. Fahey

1. Specific Antigenic Similarity between Malignant Adult and Normal Fetal Tissues of the Human Digestive System. P. GOLD and S. O. FREEDMAN, Montreal, Canada (introduced by D. G. Cameron †). ASCI
2. A New Perspective of the Cellular Basis of Immunity and Lymphocytic Malignancies. M. D. COOPER, R. D. A. PETERSON, and R. A. GOOD,* Minneapolis, Minn. ASCI

3. Studies of Cellular Proliferation in Acute Leukemia. B. CLARKSON, T. OHKITA, K. OTA, and A. O'CONNOR, New York, N. Y. (introduced by D. A. Karnofsky †). ASCI
4. Maturation Defect of Leukemic Blast Cells in Acute Leukemia. A. M. MAUER and V. FISHER, Cincinnati, Ohio (introduced by R. W. Vilter †). ASCI
5. Evidence for Equilibrating Transhydrogenase Activity in Tumor Tissue. D. W. FOSTER and J. B. TAYLOR, Dallas, Texas. AFCR
6. Differential Inhibition of RNA Synthesis by Mithramycin. J. YARBRO, M. WOLLHEIM, and B. J. KENNEDY, Minneapolis, Minn. AFCR
7. Inhibition of Friend Leukemia by 9-Butyl-6-Thiou-guanine and 9-Butyl-6-Mercaptopurine. W. REGEL-SON and O. TYMCZUK, Buffalo, N. Y. AFCR
8. Effect of Cytotoxic Agents on Medium Chain Fat Absorption in Rats and Humans. A. D. SCHWABE, K. R. TANAKA, and V. D. VALDIVIESO, Los Angeles, Calif. AFCR
9. Lactic Dehydrogenase in Neoplastic Tissue of Man. W. STARKWEATHER, H. SPENCER, and H. SCHOCH, Ann Arbor, Mich. AFCR
10. Symptoms as an Index of Biologic Behavior and Prognosis in Human Cancer. A. R. FEINSTEIN, New Haven, Conn. AFCR

PULMONARY

Sunday, May 2, 1965

Afternoon Session

2:30 p.m. Music Hall, Steel Pier

Chairman: Dr. Harry W. Fritts, Jr.

1. Respiratory and Renal Adjustments to Induced Changes in Serum H⁺ and Cl⁻ in Chronic Hypercapnia. R. M. GOLDRING, G. M. TURINO,* H. O. HEINE-MANN,* and A. P. FISHMAN,† New York, N. Y. AFCR
2. Effects of Hypocapnia and Hypercapnia on Intracellular Acid-Base Equilibrium in Man. F. MANFREDI, Indianapolis, Ind. (introduced by J. B. Hickam †). ASCI
3. The Metabolism of Rabbit Lung *In Vitro*. S. SALISBURY MURPHY, I. FOX, D. RUBINSTEIN, and J. C. BECK,* Montreal, Canada. AFCR
4. Placental Diffusion Studies Using Carbon Monoxide Sheep. L. D. LONGO, G. G. POWER, and R. E. FORSTER II,* Philadelphia, Pa. ASCI
5. Pulmonary Diffusing Capacity in Persons Native to High Altitude. A. C. DEGRAFF, JR.,† R. F. GROVER, J. W. HAMMOND, JR., J. M. MILLER, and R. L. JOHNSON, JR., Denver, Colo., and Dallas, Texas. AFCR
6. Gravitational Effects upon Pulmonary Diffusing Capacity (DL) and Capillary Blood Volume (Vc) in Congenital Heart Diseases. S. T. GIAMMONA, W. J. DALY, and J. C. ROSS,* Indianapolis, Ind. AFCR

7. Study of Pulmonary Ventilation by Isotope Scanning. J. TEMPLE, F. PIRCHER, W. KIRSCH, and H. SIEKER,* Durham, N. C. AFCR
8. Regional Vasomotor Activity of the Pulmonary Vasculature. H. N. WAGNER, JR.,* D. E. TOW, and V. LOPEZ-MAJANO, Baltimore, Md. ASCI
9. Sequoiosis: Immunologic and Pathologic Findings in a New Granulomatous Pulmonary Disease. H. I. COHEN, T. C. MERIGAN, and F. ELDRIDGE,* Palo Alto, Calif. AFCR
10. Effects of Breathing an Endotoxin Aerosol. J. D. SNELL, JR., Nashville, Tenn. (introduced by R. M. Des Prez). AFCR
3. A New Member of the Membrane ATPase Family. A. W. CZERWINSKI, H. J. GITELMAN, and L. G. WELT,† Chapel Hill, N. C. ASCI
4. Micropuncture Study of Calcium Reabsorption in Proximal Tubule of the Dog. C. G. DUARTE and J. F. WATSON, Burlington, Vt. AFCR
5. The Effect of Alterations in Acid-Base Balance on Bicarbonate Reabsorption by the Dog Proximal Tubule, J. R. CLAPP, Durham, N. C. AFCR
6. Changes in Renal Blood Flow and Possibly the Intrarenal Distribution of Blood Accompanying the Natriuresis of Saline Loading. L. E. EARLEY and R. M. FRIEDLER, Boston, Mass. (introduced by M. Finland †). ASCI

RENAL AND ELECTROLYTES

Sunday, May 2, 1965

Afternoon Session

2:30 p.m. Casino Theater, Steel Pier

Chairman: Dr. Neal S. Bricker

1. Effect of Vasopressin on Water Permeability of Isolated Perfused Collecting Tubules. J. GRANTHAM, J. ORLOFF,* and M. BURG,* Bethesda, Md. ASCI
2. Effects of pH and Theophylline on the Uptake, Elution, and Antidiuretic Action of Adenosine-3',5'-Monophosphate. P. F. GULYASSY and I. S. EDELMAN,* San Francisco, Calif. ASCI
7. Micropuncture Study of Myohemoglobinuric Acute Renal Failure in the Rat. M. L. ARCE, D. R. WILSON, and D. E. OKEN, Boston, Mass. AFCR
8. Individual Nephron Function in Experimental Pyelonephritis. N. BANK and H. S. AYNEJIAN, New York, N. Y. (introduced by S. J. Farber †). ASCI
9. Characterization of Nephron Function in Acute and Chronic Hydronephrosis. W. SUKI, G. EKNOYAN, F. C. RECTOR, JR.,* and D. W. SELDIN,* Dallas, Texas. ASCI
10. Correction of Alkalosis in Man without Repair of Potassium Deficiency: A Re-evaluation of the Role of Potassium. J. P. KASSIRER and W. B. SCHWARTZ,* Boston, Mass. AFCR

THE AMERICAN SOCIETY FOR CLINICAL INVESTIGATION, INC.

FIFTY-SEVENTH ANNUAL MEETING

MORNING PROGRAM

Monday, May 3, 1965

9:00 a.m. Casino Theater, Steel Pier

First Business Meeting

The President's Address: Dr. Alexander Leaf

SCIENTIFIC SESSION

(The time for the presentation of each paper will be limited to 10 minutes.)

Chairman: Dr. Alexander Leaf

1. Intestinal Cholesterol Synthesis: Its Localization and Control. J. M. DIETSCHY and M. D. SIPERSTEIN,* Dallas, Texas.
2. Correlation of Viral Invasion with Hepatic Dysfunction in Experimental Canine Hepatitis. D. J. GOCKE, R. PREISIG, T. Q. MORRIS, J. G. SWEETING, and S. E. BRADLEY,† New York, N. Y.
3. Intranuclear Localization of Testosterone-1,2-H³ in the Preen Gland of the Duck. J. D. WILSON * and P. M. LOEB, Dallas, Texas.
4. Effect of Human Leukocyte Extracts on Mitoses of Human Fibroblasts *In Vitro*. P. J. FIALKOW and S. M. GARTLER, Seattle, Wash. (introduced by A. G. Motulsky *).
5. DNA in the Serum of Patients with Systemic Lupus Erythematosus (SLE). E. M. TAN, P. H. SCHUR, and H. G. KUNKEL,† New York, N. Y.
6. Selective Deficiency of Immunoglobulin Polypeptide Chains. J. L. FAHEY,* W. F. BARTH, R. ASOFSKY, and D. S. ROWE, Bethesda, Md.
7. Immune Responses to Penicillin in Man and Penicillin Allergy. B. B. LEVINE and M. J. FELLNER, New York, N. Y. (introduced by P. Y. Paterson *).
8. Metabolic Implications of Renal Gluconeogenesis in Rate Control of Ammonia Synthesis. R. E. FUISZ, A. D. GOODMAN, D. E. KAMM, G. F. CAHILL, JR.,* and A. MARBLE,† Boston, Mass.
9. Regulation of Proximal Tubular Fluid Reabsorption as Studied by Stopped Flow Microperfusion in the

The President is most grateful to the Chairmen of the Sectional Programs, whose advice and guidance were of great value in the selection of this program.

Rat Kidney. F. P. BRUNNER, F. C. RECTOR, JR.,* and D. W. SELDIN,* Dallas, Texas.

10. Effect of Caval Ligation on Response of Proximal Tubular Sodium Reabsorption to Saline Infusion. W. J. CIRKSENA, J. H. DIRKS, and R. W. BERLINER,† Bethesda, Md.
11. Studies of ACTH Antibodies and Their Reactions with Inactive Analogues of ACTH. N. FLEISCHER, J. R. GIVENS, K. ABE, W. E. NICHOLSON, and G. W. LIDDLE,* Nashville, Tenn.
12. A Direct Effect of Steroids on the Permeability of Lipid Membranes (Liposomes). G. WEISSMANN,* G. SESSA, M. STANDISH, and A. D. BANGHAM, New York, N. Y., and Cambridge, England.
13. Estimation of the Secretion Rate of TSH in Man. W. D. ODELL, R. D. UTIGER, and J. F. WILBER, Bethesda, Md. (introduced by M. B. Lipsett*).

AFTERNOON PROGRAM

2:00 p.m. Casino Theater, Steel Pier

Second Business Meeting

SCIENTIFIC SESSION

Chairman: Dr. I. Herbert Scheinberg

14. Parathyroid Hormone and Bone Mobilization *In Vitro*. A. TENENHOUSE, R. MEIER, and H. RASMUSSEN,* Madison, Wis., and Philadelphia, Pa.
15. Epinephrine Inhibition of Insulin Release. D. PORTE, JR., A. GRABER, T. KUZUYA, and R. H. WILLIAMS,† Seattle, Wash.
16. Hypothesis to Explain Metabolic Defect in Acute Porphyria. G. D. LUDWIG,* Philadelphia, Pa.
17. Selective Intestinal Infection with Type 4 Adenovirus and Its Specific Protective Effect against Epidemic Disease. W. P. EDMONSTON, R. H. PURCELL, W. LUDWIG, J. W. P. LOVE, B. F. GUNDELFINGER, and R. M. CHANOCK,* Bethesda, Md.
18. A Mechanism of Bacterial Interference. J. C. RIBBLE, New York, N. Y. (introduced by E. W. Hook *).
19. Malignant Lymphomas in Runt Disease: Escalation from an Immunological to a Neoplastic Disease. R. S. SCHWARTZ,* Boston, Mass.
20. The Replication Pattern and Time of Experimentally Induced Breast Tumor Cells. J. HOFFMAN and J. POST,† New York, N. Y.

21. Globin Synthesis in Thalassemia. D. J. WEATHERALL and M. A. NAUGHTON, Baltimore, Md. (introduced by C. L. Conley †).
22. The Hepatic Clearance of the Thrombosis-inducing capacity of Serum. D. DEYKIN, Boston, Mass. (introduced by A. S. Freedberg †).
23. The Hemolysis of Red Cells from Patients with Paroxysmal Nocturnal Hemoglobinuria by Isolated Subcomponents of the Third Complement Component. S. YACHNIN, Chicago, Ill. (introduced by L. O. Jacobson †).
24. Polycythemia Associated with a Hemoglobinopathy. S. CHARACHE, D. J. WEATHERALL, F. C. BATTAGLIA, and A. E. HELLEGERS, Baltimore, Md. (introduced by D. P. Jackson*).
25. False Neurochemical Transmitters and Their Relation to the Hypotensive Action of Monoamine Oxidase Inhibitors. I. J. KOPIN, J. E. FISCHER, J. M. MUSACCHIO, and R. J. WESTLAKE, Bethesda, Md. (introduced by S. S. Kety †).
26. Relation of Ventricular Arrhythmias during Coronary Thrombosis to Myocardial K⁺ Transfer. T. J. REGAN,* M. HARMAN, A. MARKOV, H. OLDEWURTEL, and H. K. HELLEMS,* Jersey City, N. J.

LISTING OF TECHNICAL EXHIBITS AT THE FIFTY-SEVENTH ANNUAL MEETING OF THE AMERICAN SOCIETY FOR CLINICAL INVESTIGATION, INC., 1965

	<i>Booth no.</i>		<i>Booth no.</i>
ABBOTT LABORATORIES	37	THE LONDON Co.*	5
ADVANCED INSTRUMENTS, INC.*	19	THE MACMILLAN Co.*	27
AMERICAN OPTICAL Co.	45	MCGRAW-HILL BOOK Co., BLAKISTON DIV.*	34
AVIONICS RESEARCH PRODUCTS CORP.*	6A	MILLIPORE FILTER CORP.	11
BAIRD-ATOMIC, INC.	60	THE C. V. MOSBY Co.	32
BAUSCH & LOMB INC.*	12	NEW ENGLAND NUCLEAR CORP.	49
BECTON, DICKINSON & Co.	47	NUCLEAR-CHICAGO CORP.*	35 & 36
CAMBRIDGE INSTRUMENT Co., INC.	55	NUCLEAR CONSULTANTS CORP.	16
WARREN E. COLLINS, INC.	42	NUCLEAR DATA, INC.	54
COULTER ELECTRONICS SALES Co.*	23	OXFORD UNIVERSITY PRESS *	52
F. A. DAVIS Co.*	29	PACKARD INSTRUMENT Co., INC.*	1 & 2
ELECTRODYNE Co., INC.	13	PEL-FREEZ BIOLOGICALS, INC.*	6
ELECTRONICS FOR MEDICINE, INC.	38 & 39	PENTEX INC.*	33
EXTRACORPOREAL & MEDICAL SPECIALTIES Co., INC.	7	THE PERKIN-ELMER CORP.*	57
GENERAL DIAGNOSTICS DIV., WARNER-CHILCOTT LABS.	10	PHARMACIA FINE CHEMICALS INC.	56
THE GERMFREE LABORATORIES, INC.	58 & 59	PHIPPS & BIRD, INC.*	50
GILFORD INSTRUMENT LABORATORIES, INC.*	40	PICKER X-RAY CORP.*	30 & 31
GRUNE & STRATTON, INC.	20	PRECISION SYSTEMS	26
HOEBER MEDICAL DIV., HARPER & ROW	22	SANBORN DIV., HEWLETT-PACKARD Co.*	14 & 15
THE HOLTER COMPANY	7A	W. B. SAUNDERS Co.	43 & 44
INSTITUTE FOR SCIENTIFIC INFORMATION	46	SAVANT INSTRUMENTS, INC.*	51
INSTRUMENTATION ASSOCIATES, INC.*	3 & 4	E. R. SQUIBB & SONS *	21
INTERCONTINENTAL MEDICAL BOOK CORP.	53	WARNER-CHILCOTT LABS., INSTRUMENTS DIV.*	18
LEA & FEBIGER	17	THE WATERS COMPANY *	9
E. LEITZ, INC.*	25	THE WILLIAMS & WILKINS Co.	41
LEXINGTON INSTRUMENTS SALES CORP.	48	YEAR BOOK MEDICAL PUBLISHERS, INC.*	8
J. B. LIPPINCOTT Co.	24	THE COCA-COLA COMPANY *	Special Area
LITTLE, BROWN & Co.	28		

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