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


4. The Conversion of Protein Nitrogen into N\textsubscript{2} 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.


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.


* ASCI, active member.
† ASCI, emeritus member.
PROGRAMS OF THE SECTIONAL MEETINGS

CARDOVASCULAR

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
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

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
3. Further Purification of a Pituitary Preparation with Sebrotropic Activity. L. P. Woodbury, P. Ortega, and A. L. Lorincz, Chicago, Ill. AFCR
5. Heparin Metabolism in Systemic Mast Cell Disease. D. J. Demis and B. McAllister, St. Louis, Mo. 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

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
4. Suppression of ACTH Release Following Discontinuance of Corticosteroid Therapy in Rats. R. B. Mims and D. H. Nelson,* Los Angeles, Calif. AFCR
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

**GASTROENTEROLOGY**

**Sunday, May 2, 1965**

**Afternoon Session**

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

Chairman: Dr. Kurt J. Isselbacher

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
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

**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. Wynngaarden). 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
4. Cystinuria: Biochemical Evidence for Two Genetically Distinct Diseases. L. E. Rosenberg and S. Segal; Bethesda, Md. ASCI
7. Unusual Karotypes of Human Glial Tumors. H. A. Lubs, Jr., New Haven, Conn. AFCR

**HEMATOLOGY**

**Sunday, May 2, 1965**

**Afternoon Session**

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

Chairman: Dr. James H. Jandl

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. Perloth, and A. Collins, Bethesda, Md. 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
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
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 14C-labeled Human Complement Component. C. A. Alper, A. S. Leven, and F. S. Rosen, Boston, Mass. (introduced by C. A. Janeway †). ASCI
10. Acute Hemolytic Anemia Due to Anti-i; Frequent Cold Agglutinins in Infectious Mononucleosis. R. Calvo, W. Stein, S. Kochwa, and R. E. Rosenfield, New York, N. Y. (introduced by L. J. Sofer †). 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
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
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
METABOLISM

Sunday, May 2, 1965

Afternoon Session

2:30 p.m. Music Room, Chalfonte

Chairman: Dr. William P. Deiss, Jr.

2. Heparin Osteoporosis. G. Nichols, Jr.,* G. C. GRIFFITH, and J. D. ASHER, Boston, Mass., and Los Angeles, Calif. ASCI
4. A Functional Role for Plasma Alpha, 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

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
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 Mitomycin. J. YARBO, M. WOLLHEIM, and B. J. KENNEDY, Minneapolis, Minn. AFCR
7. Inhibition of Friend Leukemia by 9-Butyl-6-Thiouguanine and 9-Butyl-6-Mercaptourine. W. REGELSON and O. TYMCZUK, Buffalo, N. Y. AFCR
8. Effect of Cytoxic Agents on Medium Chain Fat Absorption in Rats and Humans. A. D. SCHWAKE, K. R. TANAKA, and V. D. VALDIVIESO, Los Angeles, Calif. ASCI
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.

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
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
8. Regional Vasomotor Activity of the Pulmonary Vasculature. H. N. Wagner, Jr., D. E. Tow, and V. Lopez-Majano, Baltimore, Md. ASCI

RENAI 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
3. A New Member of the Membrane ATPase Family. A. W. Czerwinski, H. J. Gitelman, and L. G. Welt,* Chapel Hill, N. C. ASCI
5. The Effect of Alterations in Acid-Base Balance on Bicarbonate Reabsorption by the Dog Proximal Tubule, J. R. Clapp, Durham, N. C. 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
3. Intranuclear Localization of Testosterone-1,2-H in the Preen Gland of the Duck. J. D. WILSON* and P. M. LOEB, Dallas, Texas.
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.
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.

AFTERNOON PROGRAM
2:00 p.m. Casino Theater, Steel Pier
Second Business Meeting

SCIENTIFIC SESSION
Chairman: Dr. I. Herbert Scheinberg

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.

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 †).


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 †).


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

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* See advertisement in this issue.