1968 PROGRAM

AMERICAN SOCIETY FOR

CLINICAL INVESTIGATION, INC.

60TH ANNUAL MEETING

Including programs for
American Federation for Clinical Research, Inc.
The Association of American Physicians

MONDAY, MAY 6

PENNSYLVANIA ROOM, HADDON HALL

ATLANTIC CITY
AMERICAN SOCIETY FOR CLINICAL INVESTIGATION, INC.

60TH ANNUAL MEETING

MONDAY, MAY 6

MORNING

9:00 a.m., Pennsylvania Room, Haddon Hall

FIRST BUSINESS SESSION

THE PRESIDENT'S ADDRESS

Scientific Session

Chairman: Dr. Robert A. Good

(The presentation of each paper will be limited to 10 min.)


2. Increased Susceptibility to Infection Associated with a Defect of Complement Metabolism. C. A. Alper, N. Abramson, R. B. Johnston, Jr., C. E. McCall, J. H. Jandl, and F. S. Rosen, Boston, Mass. (1)

3. Complement (C') Consumption by Endotoxic Lipopolysaccharide (LPS) in Immunoglobulin-Deficient Sera. H. Gewurz, R. Snyderman, H. S. Shin, L. Lichtenstein, and S. E. Mergenhagen, Bethesda and Baltimore, Md. (introduced by C. S. Stetson**) (114)


5. Implant of Fetal Thymus in an Infant with the III-IV Pharyngeal Pouch Syndrome. W. W. Cleveland, B. J. Fogel, and H. E. Kay, Miami, Fla. (Introduced by A. A. Yunis) (60)


12. The In Vivo pH of the Extravascular Space of the Lung. R. M. Effros and F. P. Chinard, New York (81)

AFTERNOON

2:00 p.m., Pennsylvania Room, Haddon Hall

SECOND BUSINESS SESSION

Scientific Session

Chairman: Dr. Arno G. Motulsky


15. Reentry of Nondividing Leukemic Cells into a Proliferative Phase in Acute Childhood Leukemia. E. F. Saunders and A. M. Maier, Cincinnati, Ohio. (257)

16. The Regulation of Fatty Acid Biosynthesis in Rat Hepatomas. P. W. Majorus and H. P. Morris, St. Louis, Mo. (Introduced by C. V. Moore**). (192)
Joint Program with the
American Federation for Clinical Research, Inc.

SUNDAY AFTERNOON, MAY 5

CARDIOVASCULAR PHYSIOLOGY
2:00 p.m., Carolina Room, Chalfonte
Chairman: Dr. John Eckstein

5. Effect of Abnormal Hemoglobin (Carboxyhemoglobin) on Human Myocardial Metabolism. S. M. Ayres, J. Penny, A. Crescitiello,* and S. Gianelli, Jr., New York. AFCR
6. Hormonal Effects on Cardiac Adenosine 3',5'-Phosphate Levels. P. J. Laraia* and W. J. Reddy,* Boston, Mass. (introduced by G. F. Cahill, Jr.). AFCR
7. Ventricular Receptors for Acetylcholine (ACh): Evidence for Nicotinic and Muscarinic Sites. P. J. Dempsey* and T. Cooper, Bethesda, Md. ASCI (75)
10. The Influence of Ouabain and 3-Pentene-1,4-olide on Cardiac Sarcoplasmic Reticulum. M. L. Entman,* J. W. Cook, Jr.*, and R. Bressler, Durham, N. C. ASCI (88)

DERMATOLOGY
2:00 p.m., West Room, Haddon Hall
Chairman: Dr. Joseph Demis

2. The Molecular Basis of Chloroquine (C) Responsiveness in Porphyria Cutanea Tarda (PCT). P. Scholnick* and H. S. Marver, San Francisco, Calif. AFCR


5. Epidermal Prealbumin. H. BADEN, Boston, Mass. AFCR


8. Skin Blood Flow in Scleroderma. J. D. COFFMAN and A. S. COHEN, Boston, Mass. (64)

9. Temperature Effects on Isolated Resistance Vessels of Skin and Mesentery. W. M. SAMS, Jr., and R. K. WINKELMANN, Rochester, Minn. AFCR


11. Light-Induced Immediate Pigment Darkening Reaction in Human Skin. M. A. PATHAK, K. STRATTON,* and Y. HORI,* Boston, Mass. AFCR

ENDOCRINOLOGY

2:00 p.m., Pennsylvania Room III, Haddon Hall
Chairman: Dr. Richard Egdahl

1. The Occurrence of Hypogonadotropism and Gonadotropin Insensitivity in Men with Hyposmia, Skeletal Anomalies and Retarded Sexual Development. C. W. BARDIN, G. T. ROSS,* A. B. RIFKIND,* C. M. CARVILLE,* and M. B. LIPSITT,** Bethesda, Md. AFCR

2. The Mechanism of Action of Testosterone in Rat Prostate. N. BRUCHOVSKY* and J. D. WILSON, Dallas, Tex. (ASCI) (36)


6. Hormonal Regulation of Gene Expression in Tissue Culture. T. D. GELEERTER* and G. M. TOMKINS,** Bethesda, Md. ASCI (113)

7. Mechanism of Estrogen-Induced Tissue Differentiation: Regulation of Nuclear Transcription. B. W. O'VALLEY* and W. L. McGUIRE, Bethesda, Md. (introduced by J. Robbins). ASCI (221)

8. Influence of Thyroid State on the Intrinsic Contractile Properties of Isolated Skeletal Muscle. H. K. GOLD,* J. F. SPANN, Jr., and E. BRAUNWALD, Bethesda, Md. AFCR


10. Abnormal Secretion of Parathyroid Hormone (PTH) in Teritary Hyperparathyroidism. L. M. SHEERWOOD, I. HEERMAN,* and D. R. CLUXTON, New York. AFCR

11. Activation of Adenyl Cyclase in the Renal Tubule by Parathyroid Hormone. G. L. MELSON,* L. R. CHASE,* and G. D. AURBACH, Bethesda, Md. AFCR

GASTROENTEROLOGY

2:00 p.m., Windsor Room, Haddon Hall
Chairman: Dr. David Schachter


2. Two Cytoplasmic Proteins from Rat Liver and Their Role in Hepatic Uptake of Sulfobromophthalein (BSP) and Bilirubin. A. J. LEVI,* Z. GATMAITAN,* and I. M. ARIAS, New York. ASCI (181)

3. The Use of Sodium Taurolcholate—C to Estimate Hepatic Plasma Flow. T. Q. MORRIS,* New York. (introduced by S. E. Bradley**). ASCI (207)


8. Localization of Production of Autoantibodies in Patients with Atrophic Gastritis and Adult Addisonian Pernicious Anemia. S. BAUR,* J. FISHER,* and K. TAYLOR, Stanford, Calif. ASCI (17)

9. The Mechanism of Fluid Production in Experimental Cholera Toxin-Induced Diarrhea. F. L. IBER,* T. J.
McGonagle,* H. A. Serenbro, E. H. Lieber, T. M. Bayless,* and T. R. Hendrix,** Baltimore, Md. ASCI (149)


GENETICS

2:00 p.m., Garden Room, Haddon Hall
Chairman: Dr. John Littlefield

1. A New Glucose-6-Phosphate Dehydrogenase (G6PD) Variant in the Philippines (G6PD PANAY). M. M. Fernandez* and V. F. Fairbanks, Rochester, Minn. ASCFAR


3. Hereditary Persistence of "Fetal" Red Cells. S. Charache,* J. J. Schruefer,* and W. B. Bias,* Baltimore, Md. (introduced by C. L. Conley**). ASCI (51)


5. In Vitro Alterations of Satellite Association and Nucleolar Persistence in Mitotic Human Lymphocytes. H. Nankin, Rockville, Md. ASCFAR


7. Karyotypic and Linkage Analysis in Two Pedigrees with Marker Chromosomes. R. P. Donahue,* J. H. Renwick,* L. de los Cobos,* D. S. Borgonkar,* W. B. Bias,* and V. A. McKusick,** Baltimore, Md. ASCFAR


HEMATOLOGY

2:00 p.m., Vernon Room, Haddon Hall
Chairman: Dr. Frederick Stohlman, Jr.

1. Secretary IgA Autoantibody to Intrinsic Factor: Evidence for Local (Gastric) Autoimmunity in Pernicious Anemia. L. S. Goldberg,* J. Shuster,* M. A. Stuckey,* and H. H. Fudenberg, San Francisco, Calif. ASCFAR

2. Isolation, Purification, and Physicochemical Properties of the Plasma Kallikreins. R. W. Colman* and S. Sherry,** St. Louis, Mo. ASCI (65)


4. Erythropoietic Component of Early-Labeled Bilirubin: Role of "Ineffective Reticulocytosis." S. H. Robinson, Boston, Mass. ASCFAR

5. The Relationship of Erythropoietin Effectiveness to the Generative Cycle of the Erythroid Precursor Cell. B. S. Morse,* N. J. Reciucca,* and F. Stohlman,* Jr., Boston, Mass. ASCI (210)

6. The Effect of Altered Rates of Erythropoiesis upon Granulocytopoiesis. P. A. Cherewnick* and D. R. Boogs, New Brunswick, N. J. ASCI (55)

7. Stimulation of Bone Marrow Colony Growth In Vitro by Human Urine. W. A. Robinson,* Melbourne, Australia, and Denver, Colo. (introduced by G. Mledejohn**). ASCI (248)


10. Jejunal Crypt Cell and Marrow Morphology in Tropical Sprue. M. Wherry, V. Swanson,* and T. Bayless, Charlottesville, Va.; Los Angeles, Calif.; and Baltimore, Md. ASCFAR

11. Defective DNA Synthesis in Human Megaloblastic Bone Marrow: Accentuation by Methionine, Improvement by Homocysteine. S. Waxman,* J. Metz,* and V. Herbert, New York ASCI (297)

IMMUNOLOGY AND CONNECTIVE TISSUE

2:00 p.m., Rutland Room, Haddon Hall
Chairman: Dr. Peter Miescher


3. Transfer of Cellular Hypersensitivity In Vitro. F. T. Valentine* and H. S. Lawrence,** New York. ASCI (291)

4. The Foreign Body Granuloma as a Response to Chemical Mediators of Inflammation. K. S. Warren and R. W. Kellermeyer,* Cleveland, Ohio. ASCI (295)

5. Capacity of a Cobra Venom Protein to Inactivate the Third Component of Complement (C3) and to Inhibit Immunologic Reactions. C. G. Cochrane,* H. J. Müller-Eberhard, and K-E Fjellström,* La Jolla, Calif. ASCI (62)


INFECTIONOUS DISEASES

2:00 p.m., Viking Room, Haddon Hall
Chairman: Dr. Lewis Wannamaker


3. Absent Myeloperoxidase and Leukocyte Candidiacidal Activity in a Patient with Systemic Candidiasis. R. I. Lehner* and M. J. Cline, San Francisco, Calif. AFCR


5. Inhibition of Infectivity of Reovirus, Type 2 by Glycoside-Cleaving Enzymes. A. M. Lerner and Q. R. Miranda,* Detroit, Mich. ASCI (180)

6. Viral RNA and Cell Interactions Altered by Anti-Cellular Antibody. G. Altay* and F. J. Carey, St. Louis, Mo. AFCR

7. Factors Influencing Response of Volunteers to Inoculation with Coxsackie Virus A Type 21. R. B. Couch, V. Knight,** T. R. Cate, P. J. Gerone,* and R. G. Douglas, Jr., Houston, Tex. AFCR

8. The Immune Response of the Kidney in Experimental Pyelonephritis. J. D. Lehmann,* J. W. Smith,* T. E. Miller,* J. A. Barnett,* and J. P. Sanford, Dallas, Tex. ASCI (177)


METABOLISM

2:00 p.m., Pennsylvania Room I, Haddon Hall
Chairman: Daniel Steinberg


2. Stimulation of Beta Lipoprotein-Protein Synthesis by Dietary Monosaccharide in the Rat. R. P. Eaton* and D. M. Kifnis, St. Louis, Mo. ASCI (79)

3. Immuno-reactive Insulin, Glucose Tolerance and Carbohydrate Inducibility in Familial Endogenous Hypertriglyceridemia. C. J. Glueck,* R. I. Levy, and D. S. Fredrickson,* Bethesda, Md. AFCR


NEOPLASTIC DISEASES

2:00 p.m., Solarium, Haddon Hall
Chairman: Dr. John Athens

1. Leukocyte Collection by an In Vivo Continuous Flow Centrifuge. E. J. Freireich,* Houston, Tex. (introduced by E. Frei, III). ASCI (107)

2. Intravascular Granulocyte Kinetics in Acute Leukemia. J. L. Spivak,* L. H. Brubaker,* and S. Perry, Bethesda, Md. AFCR


11. Coagulation Disorders in Cancer. III. Fibrinolysis and Inhibitors. B. Soong* and S. P. Miller,** Brooklyn, N. Y. AFCR

PULMONARY PHYSIOLOGY

2:00 p.m., Music Room, Chalfonte
Chairman: Dr. Arthur Dubois

1. Protection of Alveolar Macrophages from the Cytotoxic Activity of Cigarette Smoke by Glutathione and Cysteine. G. M. Green,* Boston, Mass. (introduced by E. H. Kass**). ASCI (125)


4. Ultrasonic Examination of the Lung. A. Ross,* E. Genton, and J. HOLMES,* Denver, Colo. AFCR


RENAI AND ELECTROLYTE

2:00 p.m., Peninsylvania Room II, Haddon Hall
Chairman: Dr. Robert Vernier

1. Mechanism of Sodium Excretion with Reduced Nephron Population. J. P. Hayeslett,* M. Kashgarian,* and F. H. Epstein, New Haven, Conn. ASCI (138)

Joint meeting with AFCR Sunday afternoon May 5

3. Investigation of the Coupling of Metabolism to Sodium Transport: The Question of a High Energy Compound Other Than ATP as the Immediate Source of Energy for Transport. S. Klahr,* A. Shaw,* K. Hwang,* J. Bourgoignie,* and N. S. Bricker, St. Louis, Mo. ASCI (162)


6. Micropuncture Study of Thin Loop of Henle in the Rat. R. L. Jamison, St. Louis, Mo. AFCR


10. An Extrarenal Action of Aldosterone on Mammalian Skeletal Muscle. S. Adler, Pittsburgh, Pa. AFCR

American Federation For Clinical Research, Inc.

25TH ANNUAL MEETING

SUNDAY MORNING, MAY 5

GENERAL MEETING

8:45 a.m., Pennsylvania Room, Haddon Hall, Dr. Henry N. Wagner, Jr., Presiding

BUSINESS SESSION

SCIENTIFIC SESSION

(The presentation of each paper will be limited to 12 min.)


SUNDAY EVENING, MAY 5

SUBSPECIALTY MEETINGS

(The presentation of each paper will be limited to 10 min.)

CARDIOVASCULAR

7:30 p.m., Carolina Room, Chalfonte
Dr. Elliott Rapaport, Presiding


5. Alteration of the Mechanical Performance of the Ventricle by Intra-Aortic Balloon Diastolic Augmentation. C. Urschel,* L. Eber,* J. Forrester,* J. Mat-
3. Tumor Immunity and Cancer Specific Antigens in Malignant Melanoma. H. J. Smith,* R. C. Wong,* and M. Goecen, Minneapolis, Minn.

ENDOCRINOLOGY

7:30 p.m., Pennsylvania Room III, Haddan Hall

Dr. William B. Odell, Presiding

1. Plasma Renin Activity (PRA) in the Diagnosis of Primary Aldosteronism. Aurea Jose* and Norman M. Kaplan, Dallas, Tex.
2. Effect on Thyroid Function of the Thryosine Dehalogenase Inhibitor, 3-Nitro-l-Tyrosine (MNT). W. L. Green, R. D. Utiger, and J. F. Wilber, St. Louis, Mo.
3. Inhibitory Effect of Iodine on Thyroid Release of Thyroxine (T₄) and Iodide (I⁻) Leak in Thyrotoxicosis. L. Wartofsky* and S. H. Ingbard, Boston, Mass.
6. FSH Metabolic Clearance Rates (MCR) and Production Rates (PR) in Women. Y. D. Corb,* P. O. Kohler, C. M. Cargile,* and Griff T. Ross,* Bethesda, Md.

GASTROENTEROLOGY

7:30 p.m., Windsor Room, Haddan Hall

Dr. John M. Dietschy, Presiding


HEMATOLOGY

7:30 p.m., Vernon Room, Haddan Hall

Dr. Charles E. Mengel, Presiding

1. The Effects of Erythropoietin Stimulation on the Late Marrow Maturation Phase in Man. Robert S. Hillman, Seattle, Wash.
2. Fatty Acid Oxidation by Human Platelets and Its Stimulation by Human Thrombin. Richard K. Donaherman* and Yale Nemerson, New Haven, Conn.
4. Mechanism of Action of Reduced Glutathione (GSH) in Formation of PN1-Like Cells. L. P. Ebert,* K. Smith, R. Cabolla,* and C. E. Mengel, Columbus, Ohio.

IMMUNOLOGY

7:30 p.m., Rutland Room, Haddan Hall

Dr. Nathan J. Zvaifler, Presiding

2. Biosynthetic and Structural Studies of Heavy-Chain Disease Protein. DANIEL EIN* and DONALD BUell,* Bethesda, Md. (introduced by John L. Fahey**).


6. Attempt to Transfer Contact Sensitivity in Man with Leukocyte Dialysate. MICHAEL H. BRANDRIS, Rochester, N. Y.

INFECTIONous DISEASES

7:30 p.m., Viking Room, Haddon Hall

Dr. Jack S. Remington, Presiding

1. Transfer of "Anamnestic" Tolerant Responses to Endotoxin by Spleen Cells. EDWARD J. YOUNG and SHELDON E. GREISMAN, Baltimore, Md.


3. Pleural Effusion as a Manifestation of Hypersensitivity to a Bacterial Antigen. J. C. ALLEN and M. A. APICELLA, Baltimore, Md.


5. Impairment of Phagocytosis (PHA) and Antigen Induced DNA Synthesis in Leukocytes Cultured from Patients with Leprosy. W. E. BULLOCK, JR., Rochester, N. Y.

6. Protection against Influenza by Immunizing Humans with Inactivated Virus Sprayed Into the Respiratory Tract. ROBERT H. WALDMAN, JOHN H. MANN,* and PARKER A. SMALL, JR.,* Gainesville, Fla.

METABOLISM

7:30 p.m., Pennsylvania Room I, Haddon Hall

Dr. David Rabinowitz, Presiding

1. Fatty Acid Regulation of Hepatic Gluconeogenesis. N. B. RUDEMAN, E. SHAFFER,* and R. BRESSLER, Durham, N. C.

2. Failure of Bile Acids to Regulate Hepatic Cholesterol genesis. HANS J. WEIS* and JOHN M. DIETSCHEY, Dallas, Tex.

3. The Metabolism of Vitamin D in Chronic Renal Disease. L. V. AVIOLI, S. BIRGER, and E. SLATOPOLSKY, St. Louis, Mo.


5. Intestinal Alkaline Phosphatase Activity in Familial Hypophosphatasia. STUART H. DANOVITZ,* PAUL H. BAER,* and LEONARD LAيست, Bethesda, Md.


NEOPLASTIC DISEASES

7:30 p.m., Solarium, Haddon Hall

Dr. Robert S. Schwartz, Presiding

1. The Thymus and Malignancy. I. Association of Thymoma with Cancer. JACQUES V. SOUABJIAN,* MURRAY N. SILVERSTEIN, and JACK L. TITUS,* Rochester, Minn. (introduced by B. L. Riggs).


3. Increased Plasma Gonadotropin Heralding Clinical Recognition of Bronchogenic Carcinoma. SAUL W. ROSEN, SHELDON SCHLAPP, CHARLES E. BECKER,* and MORTON GLUCK,* Washington, D. C.


6. The Use of DEAE-Dextran to Improve the Transfer of "Immune" RNA in a Mammalian System Involving Adoptive Tumor Immunity. PERRY G. RIGBY, Omaha, Nebr.

PATIENT CARE

7:30 p.m., Garden Room, Haddon Hall

Dr. David P. Lauler, Presiding

1. Evaluating Physician Attitudes toward Treatments. CURTIS P. MCLAUGHLIN* and ROBERT C. BUxBAUM, Boston, Mass.

2. Assessing End Results for Heart Failure Patients Selected from a Coronary Care Unit. JOHN WILLIAMSON, JOHN MITCHELL,* SIDNEY KREIDER,* and KENNETH LEWIS, Baltimore, Md.
5. Delivery of Follow-Up Services to Patients Discharged from a N. Y. City Municipal Hospital. Bert Bell, Howard Adler,* Francisco Muggia, and Michael Sobel,* Bronx, N. Y.

PULMONARY DISEASES
7:30 p.m., Music Room, Chalfonte

Dr. Jay A. Nadel, Presiding


RENAL AND ELECTROLYTE
7:30 p.m., Pennsylvania Room II, Haddon Hall

Dr. Martin Goldberg, Presiding

5. The Effect of Carbohydrate Administration on Urinary Calcium and Magnesium Excretion. W. F. Piering,* J. Lemann, Jr., and E. J. Lennon, Milwaukee, Wis.
The Association of American Physicians

81ST ANNUAL MEETING

TUESDAY, MAY 7

MORNING

9:30 a.m., Pennsylvania Room, Haddon Hall

GENERAL BUSINESS

THE PRESIDENT'S ADDRESS

SCIENTIFIC SESSION


8. A Study of the Cytoplasmic Granules in Renal Papillary Interstitial Cells in Relation to Hypertension. LOUIS TOSIAN, MASAO ISHII,* and MARYANN DUKK,* Minneapolis, Minn.


AFTERNOON

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

SCIENTIFIC SESSION (continued)


18. Role of Gamma Globulin Complexes in Rheumatoid Arthritis. JOHN H. VAUGHAN, EDWARD S. MONGAN,* and RALPH R. JACOX,* Rochester, N.Y.


WEDNESDAY MORNING, MAY 8
9:30 a.m., Pennsylvania Room, Haddon Hall

PRESENTATION OF THE GEORGE M. KOBER MEDAL TO TINSLEY R. HARRISON BY CHESTER KEEFER

SCIENTIFIC SESSION concluded


27. Production of Bladder Stones by L-forms. A. I. Braude and Jennie Sieminski,* Pittsburgh, Pa.

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