1972 PROGRAM AMERICAN SOCIETY FOR CLINICAL INVESTIGATION, INC. 64TH ANNUAL MEETING


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1972 PROGRAM

AMERICAN SOCIETY FOR

CLINICAL INVESTIGATION, INC.

64TH ANNUAL MEETING

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

MONDAY, MAY 1

PENNSYLVANIA ROOM, HADDON HALL

ATLANTIC CITY
American Society for Clinical Investigation, Inc.

64TH ANNUAL MEETING

MONDAY, MAY 1

MORNING

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

FIRST BUSINESS SESSION

THE PRESIDENT'S ADDRESS

SCIENTIFIC SESSION

Chairman: Dr. Paul A. Marks

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


2. Pyrogen Production In Vitro by Lymphoid Tissue in Malignant Lymphoma. Phyllis Bodel, New Haven, Conn. (35)

3. Metabolism of Thyroid Hormones by Phagocytizing Human Leukocytes. S. J. Klebanoff and W. L. Green,* Seattle, Wash. (167)


5. Decrease in the Hemolytic Anemia of Sickle Cell Disease after Administration of Sodium Cyanate. Peter N. Gillette,* Charles M. Peterson,* James M. Manning,* and Anthony Cerami,* New York (introduced by Atallah Kappas). (177)


7. Reactivity of Antiserum Detecting Acute Leukemia Associated Antigen(s). Dean Mann,* Roger Haltermann,* and Bridget Leventhal,* Bethesda, Md. (introduced by William Terry). (200)

8. The Isolation of Human Vitamin B12-Binding Proteins Utilizing Affinity Chromatography. Robert H. Allen* and Philip W. Majerus, St. Louis, Mo. (8)


AFTERNOON

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

SECOND BUSINESS SESSION

SCIENTIFIC SESSION

Chairman: Dr. Irwin M. Arias


17. Fetal Gene Expression in Human Tumor Cells. Oliver W. Jones,* Andrew Taylor,* and Mary A. Stafford,* La Jolla, Calif. (introduced by William L. Nyhan). (154)


22. Mechanism of Action of Type II Antiarrhythmic Drugs. Lura A. Harrison,* John Witting,* and Andrew Wallace, Durham, N.C. (139)


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Joint Program with the American Federation for Clinical Research, Inc.

SUNDAY AFTERNOON, APRIL 30

CARDIOVASCULAR PHYSIOLOGY

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

Co-Chairmen: Dr. Herbert L. Levine
Dr. Dean T. Mason


8. Diastolic Filling in Cardiac Disease. Barry Silverman* and Nicholas Fortuin,* Baltimore, Md. AFCR


DERMATOLOGY
2:00 p.m., Seaside Motel
Co-Chairmen: Dr. Irwin M. Freedberg
Dr. Ruth K. Freinkel

1. A Collagenolytic System Produced by Rheumatoid Subcutaneous Nodules. Edward D. Harris, Jr., Hanover, N. H. AFCR

2. Prolonged DNA Repair in Xeroderma Pigmentosum Lymphocytes. J. H. Robbins and K. H. Kraemer,* Bethesda, Md. AFCR


5. Evidence for the Activation of Complement via the C3 Shunt in Skin Diseases. T. T. Provost,* F. Pass,* and T. B. Tomasi, Jr., Buffalo, N. Y. and New York. AFCR

6. Antibodies to Viral and Synthetic Double-Stranded RNA in Discoid Lupus Erythematosus (DLE). R. Sylvester,* M. Attias,* N. Talal, and D. Tuffanelli, San Francisco, Calif. AFCR

7. Mammalian Keratinocytes and Cytochalasin B. Joseph McGuire, Stephanie Arnesen,* and Gisela Moellmann,* New Haven, Conn. ASCI (210)


9. Altered Cyclic AMP Metabolism in Atopic Eczema. Charles W. Parker and Arthur Z. Eisen, St. Louis, Mo. AFCR


11. Electron Microscopic Studies of Biopsied Wounds in Primary Skin Amyloidosis. Ken Hashimoto and Martin H. Brownstein,* Memphis, Tenn. and New York. AFCR

12. Epidermal Intercellular Staining with Concanavalin A. Michael L. Nieland and Nancy W. Nieland,* Memphis, Tenn. AFCR

ENDOCRINOLOGY
2:00 p.m., Pennsylvania Room III, Haddon Hall
Co-Chairmen: Dr. Stephen M. Krane
Dr. William Odell


2. Thyroxine Binding Globulin (TBG) Specificity for the Hormonally Active Conformation of Triiodothyronine (T3). George C. Schussler, Buffalo, N. Y. AFCR

3. Inhibition of Thyrotropin (TSH) Response to Thyrotropin-Releasing Hormone (TRH) by Small Quantities of Thyroid Hormones. Peter J. Snyder* and Robert D. Utiger, Philadelphia, Pa. ASCI (302)

4. Stimulation of Human Prolactin Secretion by Intravenous Infusion of L-Tryptophan. Roger W. Turcik and John H. MacIndoe,* Madison, Wis. ASCI (323)

5. Development and Application of Sequence Specific Radioimmunoassays (RIAs) for Parathyroid Hormone (PTH) in Man. G. V. Segrè,* J. F. Habener, D. Powell,* H. Kuehnmann,* G. Treger,* and J. T. Potts, Jr., Boston, Mass. AFCR

6. Purification of Peptide Hormone Receptors from the Kidney. Stephen J. Marx* and G. D. Aubach, Bethesda, Md. ASCI (205)

7. Ectopic Production of Human Chorionic Gonadotropin (HCG) and Its Free Beta Subunit (HCG-β). Bruce D. Wintraub, Yale M. Kadasky,* and Paul W. Rosen,* Boston, Mass. and Bethesda, Md. AFCR


9. Hormonal Regulation of Spermidine Synthesis during Spermatogenesis. John H. MacIndoe* and Roger W. Turcik, Madison, Wis. AFCR


12. Intracellular Potassium: the Regulator of Aldosterone Production. John E. Boyd* and Patrick J. Mulrow, New Haven, Conn. ASCI (42)

GASTROENTEROLOGY
2:00 p.m., Vernon Room, Haddon Hall
Co-Chairmen: Dr. Steven Schenker
Dr. Donald M. Small

1. Defective Bile Salt Synthesis as Cause of Cholesterol Gallstones. Scott M. Grundy, Allan L. Metzger, and Ronald Adler, Phoenix, Ariz. ASCI (127)

3. The Effects of Secretin (SEC) and Cholecystokinin (CCK) on Secretion of Bile Salts (BS) and Biliary Lipids. B. N. Gardner* and D. M. Small, Boston, Mass. AFCR

4. Mechanism of Cholesterol Gallstone Formation in the Essential Fatty Acid-Deficient Hamster. SANDER J. ROBIN** and JOAN FASULO,* Boston, Mass. (introduced by Lauran D. Harris), ASCI (262)

5. Metabolism of 7α-Hydroxy-4-Cholesten-3-One in Human Bile Acid Synthesis. R. F. HANSON and G. WILLIAMS,* Minneapolis, Minn. AFCR

6. Vitamin D and the Intestinal Transport of Zinc. DAVID SCHACHTER and SZLOMA KOWARSKI,* New York. ASCI (283)


8. Fatty Acid Diarrhea. H. V. AMMON* and S. F. PHILLIPS, Rochester, Minn. AFCR


12. Pyloric Sphincter Dysfunction in Patients with Gastric Ulcer. R. FISHER* and S. COHEN, Philadelphia, Pa. AFCR

GENETICS

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

Co-Chairmen: Dr. William L. Nyhan
Dr. Richard Rifkind


2. α-Galactosidase Defect in Fabry's Disease. Specific Inhibition of One Enzyme by Myo-inositol. JOHN C. CRAW-HALL and MARIANNA BANFALVI,* Montreal, Canada. ASCI (73)

3. A Possible Mechanism of Connective Tissue Defect in Homocystinuria. ANDREW H. KANG,* Boston, Mass. (introduced by Donald B. Martin). ASCI (159)


6. Synthesis of a Human Protein Hormone in Hybrid Somatic Cells. PETER O. KOHLER, HENRY J. RUDER,* and HAYDEN G. COON,* Bethesda, Md. AFCR


8. Hemoglobin Constant Spring: Possibly Unstable mRNA, and Evidence for the Two Locus Theory for α Chain Production. YUET W. KAN,* DAVID TORD,* and ANDREY M. DOZY,* Boston, Mass. and Hong Kong, China. (introduced by David G. Nathan). AFCR


11. Two Types of β-Thalassemia Distinguished by Inducibility of Cell-Free Synthesis of β-Chain by Non-thalassemic Reticulocvyte Soluble Fraction. PETER T. ROWLEY,* FRANCESCO CONCONT,* LAURA DEL SENNO,* SANDRO PONTREMOLI,* SILVIO VOFATO,* and BARBARA KOSCIOLER, Rochester, N. Y. and Ferrara, Italy (introduced by Lawrence E. Young**). ASCI (270)

12. Hemoglobin Olympia (β20 Val→Met); an Electrophoretically Silent Variant Associated with High Oxygen Affinity and Erythrocytosis. PETER E. NUTE,* GEORGE STAMATOYANNOPoulos, and DONALD FUNK,* Seattle, Wash. ASCI (230)

HEALTH CARE AND CLINICAL EPIDEMIOLOGY

2:00 p.m., Solarium, Haddon Hall

Co-Chairmen: Dr. Alvan R. Feinstein
Dr. HOWARD H. HIATT

1. Evaluation of Factors Responsible for Delay in Obtaining Abortion. GEORGE MALLORY,* LAURENCE RUBENSTEIN,* DANIEL DRONESS,* GEORGE KLEINER,* and VICTOR SDEL, Bronx, N. Y. AFCR


4. How Accurate Are Patients' Statements and Their Doctors' Estimates in Assessing Antacid Intake? HAROLD P. ROTH* and HERBERT S. CARON,* Cleveland, Ohio (introduced by Reginald A. Shipley**). ASCI (268)
5. Use of Multiple Causes of Death to Substantiate Rising Mortality from Cirrhosis in Massachusetts. C. T. F. E. Speizer,* P. D. Parker,* L. Lipworth,* M. Steen,* and C. S. Davidson,** Boston, Mass. AFCR

6. The Relation of the Hospital Environment to Staphylococcal Disease. J. P. Phair, Judith Carleton,* James Tan, and C. Watanakunakorn, Cincinnati, Ohio. AFCR

7. Non-Bacterial Infections at Autopsy in Cancer Patients. W. Greene,* S. Schimpff, V. M. Young,* and S. Glusman,* Baltimore, Md. AFCR

8. The Influence of Phenformin Therapy on Mortality from Cardiovascular Disease. Manuel Tzagournis and Richard Reynerston,* Columbus, Ohio. AFCR

HEMATOLOGY

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

Co-Chairmen: Dr. Anthony P. Fletcher
Dr. Ernst R. Jaffe


2. Mechanism of Uremic Hemolytic Anemia: Acquired Hexosemonophosphate Shunt Deficiency. Yoshiflu Yawata,* Robert Howe,* and Harry Jacob, Minneapolis, Minn. ASCI (348)


8. Heavy Incorporation of Mevalonic Acid-2-14C into Cholesterol Precursors by Human Platelets In Vitro. Phin Cohen and Arie Derksen,* Boston, Mass. ASCI (63)

IMMUNOLOGY AND RHEUMATOLOGY

2 p.m., Rutland Room, Haddon Hall

Co-Chairmen: Dr. Matthew Scharff
Dr. Thomas B. Tomasi, Jr.


3. An Enzyme in the Alternate Pathway to C3 Activation (the Properdin System) and Its Inhibition by a Protein in Normal Serum. Fred S. Rosen and Chester A. Alper, Boston, Mass. ASCI (264)


5. Transfer of Rubella Virus Resistance from Rheumatoid to Rabbit Synovial Cells by Cell Fusion. Carol Smith* and David Hamerman,** Bronx, N. Y. ASCI (301)


7. Attachment of Immune Complexes to Platelet Membranes in Tyrode’s Solution via Determinants on the Fc Fragment of IgG. S. R. Marken, Jr., D. G. Colley,* and R. M. Des Pree, Nashville, Tenn. ASCI (203)


INFECTIOUS DISEASES

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

Co-Chairmen: Dr. Vincent T. Andriole Dr. Zanvil A. Cohn

1. Experimental Streptococcus viridans Endocarditis: Alternatives to Penicillin in Prophylaxis. DAVID DURACK* and Robert PetersDORF, Oxford, England. ASCI (82)


6. A Model System Simulating Bacterial Phagocytosis and a Screening Test for Phagocytic Dysfunction. THOMAS P. STOSSEL,* Boston, Mass. (introduced by David H. Smith). ASCI (310)

7. In Vitro Inhibition of Phagocytosis and Disruption of Microfilaments by Cytochalasin B. STANTON G. AXLINE* and EVE REAVEN,* Palo Alto, Calif. (introduced by Jack Remington). ASCI (19)

8. A Technique for Assessing the Bactericidal Capability of Individual Human Macrophages. DAVID DEUTZ and MARTIN CLINE, San Francisco, Calif. AFCR


10. Heterophile and Virus-Specific Antibody Responses in Squirrel Monkeys after Inoculation of Autologous Epstein-Barr Virus-Transformed Lymphoblasts. THOMAS SHOPE* and GEORGE MILLER,* New Haven, Conn. (introduced by Dorothy M. Horstmann**). ASCI (294)


METABOLISM

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

Co-Chairmen: Dr. Rubin Bressler Dr. DeWitt Goodman


2. Cause of Endogenous Hypertriglyceridemia in Man. JERROLD OLEFSKY,* GERALD REAVEN,** and JOHN FARQUHAR,** Palo Alto, Calif. AFCR


4. Altered Fat Cell Metabolism in Endogenous Hypertriglyceridemia. R. S. BERNEFERNSTEN,* N. GRANT,* S. R. CRESPIN,* and D. M. KIPNIS,** St. Louis, Mo. and New York. AFCR

5. Plasma and Dietary Cholesterol in Infancy. C. J. GLUECK, R. TSAO,* W. BALESTIERI,* and A. ROBINSON,* Cincinnati, Ohio. AFCR

6. Distribution of Cholesterol Feedback Control in the Guinea Pig. ALAN SWAN,* and MARVIN SIEBERNSTEIN,** Dallas, Tex. ASCI (312)


8. Effect of Aldose Reductase Inhibitors on Insulin Release. KENNETH H. GABAY and WAI JUN TSE,* Boston, Mass. AFCR


11. Effect of Phenobarbital (PB) Administration on Subcellular Distribution of D$_2$-H in Rat Liver. T. J. HAHN, C. R. SCHAEP,* and L. V. AVIOLI, St. Louis, Mo. AFCR

12. Response of Islet Cell and Gut Hormones to Fat Absorption: an "Enteroinsular" Axis for Fat. I. BÖTTGER,* G. FALOONA,* and R. UNGER,** Dallas, Tex. AFCR

NEOPLASIA

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

Co-Chairmen: Dr. Bayard D. Clarkson
Dr. I. Bernard Weinstein

1. Genetic Regulation of the Metabolism of Chemical Carcinogens. JOHN J. HUTTON and P. E. THOMAS,* Lexington, Ky. and Nutley, N. J. AFCR

2. Evidence for Possible Role of Activated Macrophages in Control of Carcinogenesis. JOHN B. HIBBS, JR., LEWIS H. LAMBERT, JR.,* and JACK S. REMINGTON,** Palo Alto, Calif. AFCR


4. Serial Studies of In Vitro Colony Formation in Patients with Acute Myelocytic Leukemia. J. M. BULL,* M. J. DUTTERA,* E. STASHICK,* E. S. HENDERSON, and P. P. CARBONE,** Bethesda, Md. AFCR

5. Evidence that the Inhibition of DNA Replication in Tumor Cells Is Not a Specific Function of Cyclic AMP. J. KOWAL, Cleveland, Ohio. ASCI (169)

6. Tumor Peptides in Malignant Melanoma. L. HERBERT MAURER* and JOANNE POMEROY,* Hanover, N. H. and White River Junction, Vt. (introduced by O. Ross McIntyre). AFCR


10. Induction of Tumor-Susceptibility to Cycle-Active Agents in IgG Multiple Myeloma. SYDNEY E. SALMON and BETT A. SMITH,* San Francisco, Calif. and Tucson, Ariz. AFCR


12. Studies on the Alteration of DNA Replication and Repair. STUART SMALL,* FRED GRIFFIN,* and EUGENE F. FRENKEL,** Dallas, Tex. AFCR

PULMONARY

2:00 p.m., Music Room, Chalfonte

Co-Chairmen: Dr. Edward H. Bergofsky
Dr. Francis J. Kloeck


2. Nature of Airway Obstruction in Patients with Acute Myocardial Infarction. BENJAMIN INTERIANO,* RICHARD W. HYDE, MORRISON HODGES,* and PAUL N. YU,** Rochester, N. Y. AFCR

3. Control of Breathing in Uremia: Enhanced Ventilatory Response to CO$_2$ after Hemodialysis. ROBERT HAMILTON,* PAUL EPSTEIN,* LEE HENDERSON,* NORMAN EBELMAN,* and ALFRED FISCHMAN,** Philadelphia, Pa. ASCI (134)

4. Factors Determining Carbon Dioxide Elimination in Diseased Lungs. JOHN B. WEST and PETER D. WAGNER,* La Jolla, Calif. ASCI (340)

5. Electromyographic Activity of the Respiratory Muscles as a Measure of CO$_2$ Sensitivity during Ventilator Loading. M. D. ALTOS,* N. N. STANLEY,* and N. S. CHERNIACK, Philadelphia, Pa. AFCR

6. Alpha-Antitrypsin Deficiency and Abnormal Protease Inhibitor Phenotypes in Patients with Chronic Lung Disease. C. MITTMAN, T. BARRELL,* and J. LIEBERMAN,** Duarte and Los Angeles, Calif. AFCR

7. The Association of Interstitial Pulmonary Fibrosis (IPF) with Autoantibodies. H. NAGAYA, M. ELMORE,* and C. D. FORD,* Durham, N. C. AFCR


10. Enzyme Implantation: Acquisition of "De Novo" Urinary Activity by Alveolar Macrophages (AM). JAMES THEODORE,* JULIO ACEVEDO,* and EUGENE D. ROBIN,** Stanford, Calif. ASCI (320)


RENAI AND ELECTROLYTES

2:00 p.m., Carolina Room, Chalfonte

Co-Chairmen: Dr. Laurence E. Earley
Dr. Roscoe R. Robinson

1. Extracellular Products of Human Glomerular Cells in Tissue Culture. Alfred J. Fish,* David M. Brown,* Robert L. Vernier,** and Alfred F. Michael, Minneapolis, Minn. ASCI (103)

2. Demonstration of Defects in the Formation of and Response to Cyclic Adenosine 3',5'-Monophosphate in Vasopressin-Resistant Diabetes Insipidus. Norman H. Bell,** Charles M. Clark, Jr., Susan Avery,* Tushar Sinha,* Carl Trygstad, and Donald O. Allen,* Indianapolis, Ind. AFCR

3. Effect of Hypothyroidism on Sodium Reabsorption (TmNa) and Renal Na-K-ATPase. Adrian I. Katz* and Marshall D. Lindheimer,* Chicago, Ill. (introduced by Leslie J. DeGroot). ASCI (161)

4. On the Nature of the Circulating Natriuretic Factor in Chronic Uremia. Jacques Bourgoignie,* R. William Schmidt,* Kuo Hwang,* Tewfik Nawar,* Saulo Klahr, Lewis Chase,* and Neal S. Bricker, St. Louis, Mo. ASCI (38)


7. The Effect of Renal Alpha and Beta Adrenergic Stimulation on Proximal Sodium Reabsorption. R. B. Auld, L. M. Blendis,* E. A. Alexander, and N. G. Levin-sky,** Halifax, Canada and Boston, Mass. AFCR


9. Effect of Hyperoncotic Albumin Expansion (HAE) on Glomerular Hydrostatic Pressure (Pgs), Effective Filtration Pressure (EFP), Glomerular Permeability (LpA), and Nephron Filtration Rate (gfr) in the Rat. R. C. Blantz, F. C. Rector, Jr., and D. W. Sel-din,** Dallas, Tex. AFCR

10. Electrical Resistance of the Rat Proximal Tubule: Variation with Distance and Effects of Saline. J. F. Seely, Montreal, Canada. AFCR


American Federation for Clinical Research, Inc.

29TH ANNUAL MEETING

SUNDAY MORNING, APRIL 30

GENERAL MEETING

8:30 a.m., Pennsylvania Room, Haddon Hall, Dr. Francois M. Abboud, Presiding

BUSINESS SESSION

SCIENTIFIC SESSION

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


PRESIDENTIAL ADDRESS

THE AMERICAN FEDERATION FOR CLINICAL RESEARCH SYMPOSIUM

WHAT WILL BE THE IMPACT OF NATIONAL HEALTH INSURANCE ON ACADEMIC MEDICINE AND RESEARCH?

Saturday, April 29, 4:00 p.m., Pennsylvania Room II, Haddon Hall

Chairman: Malcolm L. Peterson

2. Robert Ebert, Boston, Mass.
SATURDAY EVENING, APRIL 29

SUBSPECIALTY MEETINGS

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

CARDIOVASCULAR I

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

Chairman: William B. Hood


CARDIOVASCULAR II

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

Chairman: James Scheuer

6. Inhibition by Insulin of Protein Breakdown and Amino Acid Release from Beating Fetal Mouse Hearts Maintained for Long Periods In Vitro. K. Wildenthal, F. I. Polsky,* and J. R. Wakefield,* Dallas, Tex.

ENDOCRINOLOGY I

7:30 p.m., Carolina Room, Chalfonte

Chairman: Stanley G. Korenman

1. Studies of the Molecular Components of the Cardiac Histamine Receptor. Irwin Klein and Gerald S. Levey, Miami, Fla.

GASTROENTEROLOGY I

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

Chairman: Daniel H. Winship

HEALTH CARE RESEARCH

7:30 p.m., Solarium, Haddon Hall
Chairman: David R. Challoner

1. Quality Control of the Delivery of Medical Care in an Outpatient Clinic. EDWARD J. GOETZL, ELIZABETH DOWNING,* KATHRYN ERAT,* PHIN COHEN,** and ANDREW G. JESSIMAN,* Boston, Mass.

2. Comparison of Two Methods for Assessing Quality of Care. ROBERT H. BROOK* and FRANCIS A. APPEL,* Baltimore, Md. (introduced by John W. Williamson).


7. The Problem-Oriented Coronary Care Unit: a Model System for Community Hospitals. ALAN D. KAPLAN,* DONALD C. ANDRESEN,** and RICHARD K. TOMPKINS,* Hanover, N. H.

HEMATOLOGY I

7:00 p.m., Windsor Room, Haddon Hall
Chairman: Richard L. DeGowin

1. The Effect of Erythropoietin on Alpha and Beta Chain Synthesis by Cultured Human Marrow Cells. RICHARD D. LEVERE and HIDEAKI MIYOSHI,* Brooklyn, N. Y.


3. Allogeneic Bone Marrow Transplantation (BMTX) following Total Body Irradiation (TBI) and L-Asparaginase (L-ASP). G. HERZIG,* R. CAKILLA,* T. ALVEGARD,* and R. G. GRAW, Jr., Bethesda, Md.


5. The Isolation and Immunochemical Characterization of a Serologically Important Gonococcal Antigen. M. A. Ariella and J. C. Allen, Buffalo, N. Y.

**INFECTION DISEASES**

**SYMPOSIUM**

**NEWER KNOWLEDGE OF AND APPROACHES TO THE CONTROL AND PREVENTION OF GONOCCOCAL DISEASE**

9:15 p.m., Pennsylvania Room II, Haddon Hall

Co-Chairmen: Leslie C. Norins
Jay P. Sanford

1. New Clinical Features and Epidemiology of Gonococcal Infection. King Holmes, Seattle, Wash.

**METABOLISM I**

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

Chairman: Michael F. Ball

4. Effect of Growth Hormone upon Glucose Metabolism and Cellularity in Adipose Tissue. Bruce R. Batchelor and Judith Stern, New York (introduced by Jules Hirsch).*
PULMONARY I

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

Chairman: Donald Massaro

1. Effect of Low O2 Tensions on Red Cell Glycolysis, NAD+/NADH Ratios and Transmembrane Potential (TMP): the Pasteuroid Effect. STANLEY M. CASSAN, JAMES THEODORE,* and EUGENE D. ROBIN,** Stanford, Calif.


3. Alpha1 Antitrypsin (AAT) Dimensional Redistribution. JAMES THEODORE,* and EUGENE D. ROBIN,** Stanford, Calif.

4. Micropuncture Study of JAMES THEODORE,* NAD+/NADH and TOWNES,* and EUGENE D. ROBIN,** Stanford, Calif.


RENAI AND ELECTROLYTES I

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

Chairman: Manuel Martinez-Maldonado


RENAI AND ELECTROLYTES II

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

Chairman: Richard E. Rieselbach

1. On the Renal Adaptation of Acid Excretion. ANTON C. SCHOOLWORTH* and SAULO KLAHR, St. Louis, Mo.


5. Effect of K+ Loading on Plasma Renin Activity (PRA), Renin Concentration (RRC), and HgCl2 Acute Renal Failure (ARF) in the Rat. T. A. KOTCHEN, W. FLAMENBAUM, D. R. WALTERS,* and J. S. McNEIL,* Washington, D. C.


RENAI SYMPOSIUM

RENAI HYDROGEN ION METABOLISM

9:15 p.m., West Room, Haddon Hall

Chairman: Gerald F. DiBona


SUNDAY EVENING, APRIL 30

SUBSPECIALTY MEETINGS

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

CARDIOVASCULAR III

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

Chairman: Charles E. Rackley


CARDIOVASCULAR IV

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

Chairman: Peter L. Frommer


7. Electrocardiographic (ECG) and His Bundle Studies during Coronary Angiography (CA). Rashid A. Massumi,** Antonio DeMaria,* Ezra A. Amsterdam, Robert Zelis, James McFarland,* and Dean T. Mason, Davis, Calif.

CARDIOVASCULAR SYMPOSIUM

MYOCARDIAL CONTRACTILITY

9:15 p.m., Pennsylvania Room I, Haddon Hall

Chairman: Robert Zelis


CLINICAL PHARMACOLOGY

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

Chairman: William N. Kelley

1. Role of the Hepatic Microsomal Ethanol Oxidizing System (MEOS) In Vivo. C. S. Lieber and L. M. DeCarli,* Bronx, N. Y.

2. Release of Cardiac Norepinephrine (NE) by L-Dopa. Lewis Landsberg, West Haven, Conn.


4. Pharmacological Studies of CNS Toxicity in Patients with Psoriasis Treated with Azaribine. C. H. Doo-
lue,* C. J. McDonald, and P. Calabresi,** Providence, R. I.
5. Rickets Associated with Anticonvulsant Medications. KEITH G. TOLMAN, WILLIAM JURZ, HECTOR F. DELUCA, and JAMES W. FRESTON, Salt Lake City, Utah and Madison, Wis.

CLINICAL PHARMACOLOGY

SYMPOSIUM

THERAPEUTIC IMPLICATIONS OF DRUG METABOLISM

9:15 p.m., Pennsylvania Room II, Haddon Hall

Co-Chairmen: Marcus M. Reidenberg
Rubin Bressler

1. Clinical Pharmacokinetics, Multicompartment Models, and Their Therapeutic Implications. GERHARD LEVY, Buffalo, N. Y.
2. Protein Binding of Drugs. HARVEY SOLOMON, Hershey, Pa.

DERMATOLOGY

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

Chairman: Frank Parker

1. Induction of Contact Unresponsiveness in Guinea Pigs Fed Carcinogens. J. R. POMERANZ, Cleveland, Ohio.
2. Acid Nuclease of Mammalian Epidermal and Hair Root Cells. TERUO MIYAGAWA* and IRWIN M. FREEDBERG, Boston, Mass.
7. Antifungal Properties of Bacillus Uniflagellatus Metabolites. GARY J. CALTON* and JOSEPH W. BURNETT, Baltimore, Md.

ENDOCRINOLOGY II

7:30 p.m., Carolina Room, Chalfonte

Chairman: Bert W. O'Malley

3. Properties of Cytoplasmic Proteins Which Bind Thyroxine (T4) and Triiodothyronine (T3). BARRY S. HANDWERGER* and PAUL J. DAVIS, Baltimore, Md.
5. Stimulation of Cyclic 3',5'-Guanosine Monophosphate (CGMP) in Dog Thyroid Slices by Acetylcholine (ACH) and Sodium Fluoride (NaF). KAMEJIRO YAMASHITA* and JAMES B. FIELD,** Pittsburgh, Pa.
6. Absorption, Turnover, and Conversion of L-Thyroxine (T4) to L-Triiodothyronine (T3) in Man. MARTIN I. SURKS, ALAN R. SCHADLOW,* and JACK H. OPPENHEIMER,** Bronx, N. Y.
7. Parathyroid Hormone (PTH) and Calcitonin (CT) Inter-Relationships in Clinical Disorders of Calcium Metabolism. L. J. DEFTOS, K. SWENSON,* and H. BODE,* Boston, Mass. and La Jolla, Calif.

ENDOCRINOLOGY

SYMPOSIUM

HYPOTHALAMIC CONTROL OF PITUITARY FUNCTION

9:15 p.m., Carolina Room, Chalfonte

Chairman: James A. Pittman, Jr.

1. Neuroregulation of Growth Hormone Secretion. JOSEPH B. MARTIN, Montreal, Canada.
2. Regulation of Thyrotropin Secretion. JEROME M. HERSCHMAN, Birmingham, Ala.
3. Discussant: SEYMOUR REICH, Hartford, Conn.
GASTROENTEROLOGY II

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

Chairman: James Christensen


GASTROENTEROLOGY SYMPOSIUM

ANTRAL PACEMAKERS, GASTRIC EMPTYING, AND GASTRIC SURGERY

9:15 p.m., Vernon Room, Haddon Hall

Chairman: James Christensen

3. The Antral Pacemaking Potential and Postoperative Gastric Retention. K. A. Kelly, Rochester, Minn.

HEMATOLOGY II

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

Chairman: George M. Bernier


IMMUNOLOGY AND RHEUMATOLOGY

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

Chairman: Lawrence M. Lichtenstein

METABOLISM II

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

Chairman: Louis V. Avioli

1. Differential Development of Adenyl Cyclase and Its Hormone Receptors in the Fetal Rat Heart. C. M. Clark, Jr., B. E. Beatty,* and D. O. Allen,* Indianapolis, Ind.


3. Hypoglycemia and Gluconeogenic (GNG) Substrate Limitation in Hypopituitarism. Morey Haymond, Irene Karl,* and Anthony Pagliara, St. Louis, Mo.

4. Regulation of Cyclic Nucleotide (CN) Levels in Canine Plasma. L. Blonde,* R. E. Wehmann,* and A. L. Steiner,* Albany, N. Y. (introduced by E. Furth**).

5. Characteristics of the Mutant Hypoxanthineguanine Phosphoribosyltransferase (HGPT) in Erythrocytes from Patients with the Lesch-Nyhan Syndrome. William J. Arnold, Jean C. Meade,* and William N. Kelley, Durham, N. C.


PULMONARY II

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

Chairman: Jon B. Glazier


RENAI,ND ELECTROLYTE,III

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

Chairman: Rex L. Jamison


The Association of American Physicians

85TH ANNUAL MEETING

TUESDAY, MAY 2

MORNING

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

GENERAL BUSINESS SESSION

THE PRESIDENT'S ADDRESS

SCIENTIFIC SESSION
Chairman: Eugene A. Stead, Jr.

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

1. Cholesteryl Ester Storage Disease (CESD): A Most
   Unusual Manifestation of Deficiency of Two Lysosomal
   Enzyme Activities. D. S. Fredrickson, H. R. Sloan,*
   and V. J. Ferrans,* Bethesda, Md.

2. Genetics of Hyperlipidemia in Coronary Heart Disease.
   J. L. Goldstein,* W. R. Hazzard,* H. G. Schrott,*

3. Pediatric Familial Type IV Hyperlipoproteinemia. C. J.
   Glueck,* R. Fallatt,* S. Ford,* and R. Tsang,* Cincin-
   nati, Ohio (introduced by Harvey C. Knowles, Jr.).

4. Allelism, Non-Allelism, and Genetic Compounds among
   Mucopolysaccharidoses. V. A. McKusick, R. Rodney
   Howell,* Irene E. Hussels,* Elizabeth F. Neufeld,*
   and Roger E. Stevenson,* Baltimore and Bethesda, Md.

5. Nature of Defect Responsible for Familial Vitamin D-
   Resistant Rickets (VDRR) Based on Parathormone (PTH)
   Assay. B. S. Root,* C. F. Piel,* and G. S.
   Gordon, San Francisco, Calif.

6. Juvenile Rheumatoid Arthritis (JRA) in the Adult Pre-
   senting as Fever of Unknown Origin (FUO). J. S.
   Bujaq,* R. G. Aptekar,* J. L. Decker,* and Sheldon
   M. Wolff, Bethesda, Md.

7. Surface Immunoglobulins on Circulating Lymphocytes in
   Mouse and Human Plasmacytoma. P. Heller, V.
   Yakulis,* N. Bhoopalamp,* N. Costea,* and R. D.
   Nathan,* Chicago, Ill.

8. Pathogenesis and Immunology of Trachoma. J. T. Gray-
   ston, J. Gale,* L. J. Yeh,* and C. Y. Yang,* Seattle,
   Wash.

9. The Common Antigen(s) of Streptococcal M Protein
   Vaccines Causing Hyperimmune Reactions in Man. E. H.
   Beachey* and G. H. Stollerman, Memphis, Tenn.

10. Penicillin Prophylaxis of Experimental Streptococcus
    viridans Endocarditis. D. Durack,* R. Petersdorf, and

11. In Vivo Angiographic Pathoanatomy of the Acute Syn-
    dromes of Coronary Heart Disease. M. V. Herman* and
    R. Gorlin, Boston, Mass.

12. Changes in Native Coronary Circulation and Segmental
    Ventricular Contractility after Saphenous Vein Coronary
    Bypass Graft Surgery. L. Griffith,* S. Achuff,* C. R.
    Conti,* J. O. Humphries,* V. Gott,* and R. Ross,
    Baltimore, Md.

13. Objective Tests of Cardiac Contractility before and after
    Three Operative Procedures Designed to Improve the
    Coronary Circulation. I. Starr and H. MacVaugh III,*

14. Alterations in Regional Hemodynamics in Experimental
    Heart Failure (HF) in Conscious Dogs. C. B. Higgins,*
    S. F. Vatner,* R. W. Millard,* D. Franklin,* and
    E. Braunwald, La Jolla, Calif.

15. A Serotonergic Mechanism for the Control of Insulin
    Secretion. J. M. Feldman* and H. E. Leveritz,* Dur-
    hham, N. C. (introduced by R. W. Rundles).

16. Importance of T₃ (Triiodothyronine) Secretion in Al-
    tered States of Thyroid Function in the Rat: Cold Ex-
    posure, Subtotal Thyroidectomy, and Hypophysectomy.
    I. F. Nejad,* J. A. Bollinger,* M. A. Mitnick,* and
    S. Rechlin, Farmington, Conn.

17. In Vitro Demonstration of Iodide-Trapping Defect but
    Normal Thyrotropin (TSH) Responsiveness in Benign
    and Malignant "Cold" Thyroid Nodules. P. R. Larsen,*
    F. DeRubertis,* K. Yamashita,* A. Dekker,* and
    J. B. Field, Pittsburgh, Pa.

18. Dynamic Aspects of Metabolic Acid-Base Disturbance:
    Phenformin Lactic Acidosis with Alkaline Overshoot.
    The Medical House Staff of Stanford University
    Medical Center* and E. D. Robin, Stanford, Calif.
ELECTION OF OFFICERS AND NEW MEMBERS

WEDNESDAY, MAY 3
9:00 a.m., Windsor Room, Haddon Hall

SCIENTIFIC SESSION

Chairman: Eugene A. Stead, Jr.

THE DISTINGUISHED LECTURE

HUMAN GENETIC DISEASE: PAST, PRESENT, FUTURE

BY

JAMES B. WYNGAARDEN


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