

ATLANTIC CITY MEETINGS 1968

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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.)

1. Correlative Lipid Biochemical, Histochemical, and Ultrastructural Evidence for Chylomicron Triglyceride as the Major Source of Lipid in Diabetic Eruptive Xanthoma. F. PARKER,* G. F. ODLAND,* and J. D. BAGDADE,* Seattle, Wash. (introduced by R. G. Petersdorf). (225)
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)
4. Hypercatabolism of IgG and Albumin: A New Familial Disorder. W. D. TERRY,* E. J. MILLER,* and T. A. WALDMANN, Bethesda, Md. (285)
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)

* Denotes nonmember, ASCI, AFRCR, or AAP.

** Denotes emeritus member ASCI or senior member AFRCR.

Names with no symbol following denote active member, ASCI, AFRCR, or AAP for appropriate programs.

() Abstract number.

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

6. Inhibition of the Platelet-Surface Reaction in Endotoxin Shock and the Generalized Schwartzman Reaction. G. EVANS* and J. F. MUSTARD, Hamilton, Ontario, Canada. (92)
7. Cholesterol Loading of Acanthocytic Red Cell Membranes Causing Hemolytic Anemia in Experimental and Genetic Abetalipoproteinemia. J. A. McBRIDE* and H. S. JACOB, Boston, Mass. and London, U. K. (198)
8. Hepatic Microsomes: A New Site for Ethanol Oxidation. C. S. LIEBER and L. M. DECARLI,* New York. (185)
9. Protein Synthesis by Mucosa of the Human Small Intestine In Vitro: Effect of Disease and an Inhibitory Effect of Gliadin in Gluten-Sensitive Enteropathy. A. L. WARSHAW* and L. LASTER, Bethesda, Md. (296)
10. "Big Insulin": A New Component of Plasma Insulin in Man. J. ROTH,* P. GORDEN,* and I. PASTAN, Bethesda, Md. (introduced by J. E. Rall**). (249)
11. On the Lipoprotein Abnormality in Type III Hyperlipoproteinemia. S. H. QUARFORDT,* R. I. LEVY,* A. FRANK,* and D. S. FREDRICKSON, Bethesda, Md. (241)
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

13. Chemical Energetics of Cardiac Muscle in Hyperthyroidism. P. E. POOL,* C. L. SKELTON,* S. C. SEAGREN,* and E. BRAUNWALD, Bethesda, Md. (236)
14. Intracellular Calcium and Myocardial Contractility: Effects of Positive Inotropic Stimuli. C. A. CHIDSEY and Y. UEBA,* Denver, Colo. (56)
15. Reentry of Nondividing Leukemic Cells into a Proliferative Phase in Acute Childhood Leukemia. E. F. SAUNDERS* and A. M. MAUER, Cincinnati, Ohio. (257)
16. The Regulation of Fatty Acid Biosynthesis in Rat Hepatomas. P. W. MAJERUS* and H. P. MORRIS,* St. Louis, Mo. (introduced by C. V. Moore**). (192)

17. Phagocytosis in Endocarditis: Localization of the Primary Opsonic Site of γ G to Fc Fragment. P. G. QUIE,* R. P. MESSNER,* and R. C. WILLIAMS, JR., Minneapolis, Minn. (242)
18. Production of Septic Survival and Enhancement of Immunogenesis by In Vivo Phytohemagglutinin. H. D. SOLTYS* and J. I. BRODY, Philadelphia, Pa. (276)
19. Cytomegalovirus Infection Associated with a Post-Perfusion Mononucleosis-like Illness. D. J. LANG,* Boston, Mass. (introduced by J. D. Crawford**). (172)
20. Adenine Phosphoribosyltransferase Deficiency: A Previously Undescribed Genetic Defect in Man. W. N. KELLEY,* R. I. LEVY,* F. M. ROSENBLUM,* J. F. HENDERSON,* and J. E. SEEGMILLER,** Bethesda, Md. (159)
21. Carbohydrate-Induced Calciuria and Kidney Stone Formation. J. LEMANN, JR.,* W. F. PIERING,* and E. J. LENNON, Milwaukee, Wis. (178)
22. Clinical Experience with Lipid Dialysis. H. E. GINN,* B. J. MATTER,* J. H. SHINABERGER,* and J. B. MANN,* Nashville, Tenn.; Los Angeles, Calif.; and Miami, Fla. (introduced by A. G. Hills**). (117)
23. Regulation of Sodium Excretion during Acute and Chronic Extracellular Volume Expansion in Man. R. B. AULD,* R. C. LALONE,* and N. G. LEVINSKY, Boston, Mass. (6)
24. Activation of Aldosterone Secretion in Primary Aldosteronism. R. F. SPARK,* S. L. DALE,* P. C. KAHN,* and J. C. MELBY, Boston, Mass. (278)
25. Clinical Experience with a New Assay for Serum Testosterone. B. E. P. MURPHY,* Montreal, Canada. (introduced by J. S. L. Browne**). (211)

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

1. Activation of the Atrial Septum in Dogs. G. S. WAGNER,* F. R. COBB,* and A. G. WALLACE, Durham, N. C. AFCR
2. Measurement of Plasma Angiotensin II and Correlation with Renin and Aldosterone in Normal and Hypertensive Man. D. J. GOCKE,* I. OPPENHOFF,* J. N. GERTEN,* L. M. SHERWOOD,* and J. H. LARAGH, New York. ASCI (119)
3. Reversal of Renal Hypertension in Rats after Immunization against Angiotensin. A. R. CHRISTLIEB,* T. U. L. BIBER,* and R. B. HICKLER,* Boston, Mass. (introduced by G. W. Thorn**). ASCI (57)
4. The Mode of Action of Sodium on the Contractile Proteins of the Arteries. W. HOLLANDER and N. SHIBATA,* Boston, Mass. ASCI (141)
5. Effect of Abnormal Hemoglobin (Carboxyhemoglobin) on Human Myocardial Metabolism. S. M. AYRES, J. PENNY, A. CRISCITIELLO,* and S. GIANNELLI, 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)
8. Factors Initiating Increased Protein Synthesis in Overloaded Mammalian Hearts. S. S. SCHREIBER,** M. ORATZ,* M. A. ROTHSCHILD,** C. EVANS,* and E. SILVER,* New York. AFCR
9. Mechanisms of Increase in Myocardial DNA Content during Myocardial Hypertrophy. D. GROVE,* R. ZAK,* and K. G. NAIR, Chicago, Ill. AFCR
10. The Influence of Ouabain and 3-Pentene-1,4-olide on Cardiac Sacroplasmic Reticulum. M. L. ENTMAN,* J. W. COOK, JR.,* and R. BRESSLER, Durham, N. C. ASCI (88)
11. Relationship between Inotropic Activity and Myocardial Concentration of Ouabain. R. J. LUCHI,* C. D. PARK,* and J. A. WALDHAUSEN,* Philadelphia, Pa. (introduced by H. L. Conn, Jr.**). ASCI (189)

DERMATOLOGY

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

Chairman: Dr. Joseph Demis

1. Localization of Antigen-Antibody Complexes in the Skin in Penicillin Reactions. M. J. FELLNER, R. HAAG,* and R. BAER,* New York. AFCR
2. The Molecular Basis of Chloroquine (C) Responsiveness in Porphyria Cutanea Tarda (PCT). P. SCHOLNICK* and H. S. MARVER, San Francisco, Calif. AFCR

3. Reversal by Copper of the Lathyrogenic Action of D-Penicillamine. H. R. KEISER,* R. I. HENKIN,* and M. KARE, Bethesda, Md. and Raleigh, N. C. (introduced by A. Sjoerdsma). ASCI (158)
4. Factors Controlling the Early Steps of Epidermal Protein Synthesis. I. M. FREEDBERG* and K. MATSUI,* Boston, Mass. (introduced by I. H. Goldberg). ASCI (106)
5. Epidermal Prealbumin. H. BADEN, Boston, Mass. AFCR
6. Study of the Influence of Ultraviolet Light on the Mitotic Cycle and Macromolecule Synthesis in Hairless Mouse Epidermis. J. H. EPSTEIN,* K. FUKUYAMA,* and K. FYE,* San Francisco, Calif. (introduced by E. Rapaport). ASCI (89)
7. Release of Kinins during Wheal and Flare Allergic Skin Reactions. B. MICHEL,* T. RUSSELL,* R. K. WINKELMANN,* and G. J. GLEICH,* Rochester, Minn. (introduced by W. S. Fowler**). ASCI (202)
8. Skin Blood Flow in Scleroderma. J. D. COFFMAN and A. S. COHEN, Boston, Mass. ASCI (64)
9. Temperature Effects on Isolated Resistance Vessels of Skin and Mesentery. W. M. SAMS, JR., and R. K. WINKELMANN, Rochester, Minn. AFCR
10. The Amino Acid Composition of Melanosomes from Harding-Passey, B-16, and Cloudman S-91 Mouse Melanomas. J. DUCHON,* Y. HORI,* H. SEILER,* and T. B. FITZPATRICK,* Boston, Mass. (introduced by M. A. Pathak) 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. CARGILLE,* and M. B. LIPSETT,** Bethesda, Md. AFCR
2. The Mechanism of Action of Testosterone in Rat Prostate. N. BRUCHOVSKY* and J. D. WILSON, Dallas, Tex. ASCI (36)
3. Extra-Pigmentary Effects of MSH in the Human Patient. A. J. KASTIN, S. KULLANDER,* N. E. BORG-LIN,* K. DYSTER-AAS,* B. DAHLBERG,* D. H. INGVAR,* C. E. T. KRAKAU,* M. C. MILLER,* C. Y. BOWERS,** and A. V. SCHALLY,* New Orleans, La. and Lund, Sweden. AFCR
4. The Role of Glucose in the Steroidogenic Action of Adrenocorticotrophic Hormone (ACTH). D. J. JONES,* W. E. NICHOLSON,* and G. W. LIDDLE,** Nashville, Tenn. ASCI (152)
5. Studies on the Action of ACTH on the Rate-Determining Step of Steroidogenesis in the Organized Adrenal Cell. W. W. DAVIS,* H. L. MOSES,* A. S.

- ROSENTHAL,* and L. D. GARREN, Hershey, Pa.; Bethesda, Md.; and New Haven, Conn. ASCI (73)
6. Hormonal Regulation of Gene Expression in Tissue Culture. T. D. GELEHRTER* and G. M. TOMKINS,** Bethesda, Md. ASCI (113)
7. Mechanism of Estrogen-Induced Tissue Differentiation: Regulation of Nuclear Transcription. B. W. O'MALLEY* 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
9. Inactivation of LATS by Anti-kappa and Anti-lambda Antisera. J. P. KRISSE,* Palo Alto, Calif. (introduced by N. Kretschmer). ASCI (170)
10. Abnormal Secretion of Parathyroid Hormone (PTH) in Tertiary Hyperparathyroidism. L. M. SHERWOOD, I. HERRMAN,* 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

1. Hereditary Hemorrhagic Telangiectasia: Arteriovenous Shunts and Aminoaciduria. B. P. CITRON,* M. HALPERN,* I. J. PINCUS,** M. C. GEOKAS,* and B. J. HAVERBACK,** Los Angeles, Calif. AFCR
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 Taurocholate-¹⁴C to Estimate Hepatic Plasma Flow. T. Q. MORRIS,* New York. (introduced by S. E. Bradley**). ASCI (207)
4. Glycine: Taurine Ratios of Bile Salts in Ileal Disease. J. GARBUTT,* K. HEATON,* L. LACK,* and M. TYOR,** Durham, N. C. AFCR
5. The Effect of Controlled Interruptions of the Enterohepatic Circulation on the Composition of Bile in the Rhesus Monkey. R. H. DOWLING* and D. M. SMALL,* Boston, Mass. (introduced by R. M. Donaldson, Jr.). ASCI (76)
6. Use of Breath Hydrogen in the Study of Carbohydrate Malabsorption. M. D. LEVITT* and R. M. DONALDSON, Boston, Mass. AFCR
7. Intestinal Absorption of Hemoglobin Iron. G. E. SUTTLE,* K. FORD,* and M. S. WHEBY, Charlottesville, Va. AFCR
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. SEREBRO,* E. H. LUEBBERS,*
T. M. BAYLESS,* and T. R. HENDRIX,** Baltimore,
Md. ASCI (149)

10. Diarrhea Following Ileal Resection: Pathogenesis and Treatment. J. R. POLEY* and A. F. HOFMANN,* Rochester, Minn. (introduced by H. R. Butt**). ASCI (235)
11. Intestinal Lymph Very Low Density Lipoprotein: Role in Cholesterol Metabolism. R. K. OCKNER* and K. J. ISSELBACHER, Boston, Mass. ASCI (217)

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. AFCR
2. Hemoglobin NYU ($\alpha_2 \delta_2^{17}$), a "New" Delta Variant Found in a Family with Another Genetic Factor Which Affects Hemoglobin A₂ Levels. H. M. RANNEY,** A. S. JACOBS,* and T. B. BRADLEY, JR., Bronx, N. Y. AFCR
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)
4. An Hereditary Sodium Transport Defect in the Human Red Blood Cell. J. W. BALFE,* C. COLE,* E. K. M. SMITH,* J. B. GRAHAM,* and L. G. WELT,** Chapel Hill, N. C. ASCI (11)
5. In Vitro Alterations of Satellite Association and Nucleolar Persistence in Mitotic Human Lymphocytes. H. NANKIN, Rockville, Md. AFCR
6. IgA Deficiency Associated with Partial Deletion of Chromosome 18. M. FEINGOLD,* R. S. SCHWARTZ, L. ATKINS,* R. ANDERSON,* C. S. BARTSOCAS,* D. L. PAGE,* and J. W. LITTLEFIELD, Boston, Mass. ASCI (100)
7. Karyotypic and Linkage Analysis in Two Pedigrees with Marker Chromosomes. R. P. DONAHUE,* J. H. RENWICK,* L. DE LOS COBOS,* D. S. BORGAONKAR,* W. B. BIAS,* and V. A. McKUSICK,** Baltimore, Md. AFCR
8. Familial Renal Glycosuria: A Genetic Reappraisal of Hexose Transport in Kidney and Intestine. L. J. ELSAS* and L. E. ROSENBERG,* New Haven, Conn. (introduced by P. K. Bondy**). ASCI (85)
9. Inherited Bone Disease with Glycylproline Peptiduria. M. H. ALDERMAN and G. W. FRIMPTER, New York. AFCR
10. Congenital Dysprothrombinemia: An Inherited Structural Disorder of Human Prothrombin. S. SHAPIRO* and J. MARTINEZ,* Philadelphia, Pa. (introduced by A. J. Erslev**). ASCI (265)
11. Serum Albumin Variants in American and New Guinea Indigenes. L. WETTKAMP, N. CHAGNON,*

J. SAAVE,* F. SALZANO,* and J. GALL,** Ann Arbor, Mich.; Moeresby, New Guinea; and Porto Alegre, Brazil. AFCR

HEMATOLOGY

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

Chairman: Dr. Frederick Stohlman, Jr.

1. Secretory IgA Autoantibody to Intrinsic Factor: Evidence for Local (Gastric) Autoimmunity in Pernicious Anemia. L. S. GOLDBERG,* J. SEUSTER,* M. A. STUCKEY,* and H. H. FUDENBERG, San Francisco, Calif. AFCR
2. Isolation, Purification, and Physicochemical Properties of the Plasma Kallikreins. R. W. COLMAN* and S. SHERRY,** St. Louis, Mo. ASCI (65)
3. Subunit Dissociation of Certain Abnormal Human Hemoglobins. H. F. BUNN, Fort Knox, Ky. AFCR
4. Erythropoietic Component of Early-Labeled Bilirubin: Role of "Ineffective Reticulocytosis." S. H. ROBINSON, Boston, Mass. AFCR
5. The Relationship of Erythropoietin Effectiveness to the Generative Cycle of the Erythroid Precursor Cell. B. S. MORSE,* N. J. RENCICCA,* and F. STOHLMAN, JR., Boston, Mass. ASCI (210)
6. The Effect of Altered Rates of Erythropoiesis upon Granulocytopoiesis. P. A. CHERVENICK* and D. R. BOGGS, 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. Meiklejohn**). ASCI (248)
8. Mechanisms of Human Thrombokinetics. L. A. HARKER* and C. A. FINCH,** Seattle, Wash. ASCI (133)
9. A Platelet Membrane Defect in Paroxysmal Nocturnal Hemoglobinuria (PNH): Usefulness in Detecting Platelet Antibodies in Thrombocytopenic Purpuras. R. H. ASTER,* Boston, Mass. (introduced by J. H. Jandl). ASCI (4)
10. Jejunal Crypt Cell and Marrow Morphology in Tropical Sprue. M. WHEBY, V. SWANSON,* and T. BAYLESS, Charlottesville, Va.; Los Angeles, Calif.; and Baltimore, Md. AFCR
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

1. Genetic Controls in the Immune Response. H. O. McDEVITT* and M. L. TYAN,* Palo Alto and San Francisco, Calif. (introduced by H. R. Holman). ASCI (200)

2. Monocyte-Lymphocyte Interaction. M. J. CLINE and V. SWETT,* San Francisco, Calif. AFRCR
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 (C'3) and to Inhibit Immunologic Reactions. C. G. COCHRANE,* H. J. MÜLLER-EBERHARD, and K-E FJELLSTRÖM,* La Jolla, Calif. ASCI (62)
6. Complement Studies in Hereditary Angioneurotic Edema. R. J. PICKERING,* J. R. KELLY,* and M. N. BLUMENTHAL,* Minneapolis, Minn. (introduced by W. W. Spink**). ASCI (233)
7. Chemotactic Factors for Neutrophils in Synovial Fluids in Rheumatoid Arthritis. P. A. WARD* and N. J. ZVAIFLER, Washington, D. C. AFRCR
8. Kinin Generation Caused by Human IgG-Rheumatoid Factor Complex. W. V. EPSTEIN, K. L. MELMON,* M. TAN,* and J. STOFF,* San Francisco, Calif. ASCI (90)
9. Elution Studies on Tissues from Patients with Goodpasture's Syndrome and Other Forms of Subacute Glomerulonephritis. D. KOFFLER,* J. SANDSON,* and H. G. KUNDEL,** New York. ASCI (164)
10. Lysozymuria, Lymphocyturia, Serum Complement, and Heterophile Antibodies in Patients with Renal Allografts: The Diagnosis of Rejection. I. H. SHEHADEH,* C. B. CARPENTER,* C. H. MONTERIO,* and J. P. MERRILL,** Boston, Mass. (introduced by W. E. Braun). AFRCR
11. Immunosuppression by a New Class of Compounds. G. H. SCHWARTZ,* E. AMBINDER,* R. R. RIGGIO,* K. H. STENZEL, and A. L. RUBIN, New York. AFRCR
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 Anticellular Antibody. G. ALTAY* and F. J. CAREY, St. Louis, Mo. AFRCR
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. AFRCR
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)
9. In Vivo Synthesis and Turnover of Synovial Fluid Hyaluronateprotein. J. SANDSON, New York. ASCI (256)
10. Molecular Basis for Action of Bee Venom (Melittin). G. WEISSMANN, G. SESSA,* J. H. FREER,* and R. HIRSCHHORN, New York. AFRCR
11. Adrenocorticosteroids in the Treatment of Pneumococcal Meningitis. G. F. THORNTON, R. D. O'TOOLE,* M. K. MUKHERJEE,* and R. L. NATH,* Calcutta, India. AFRCR

METABOLISM

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

Chairman: Daniel Steinberg

1. The Effects of Infusion of β -Lipoprotein-Rich Plasma on Fat Transport in Abetalipoproteinemia. R. S. LEES* and E. H. AHRENS, JR.,** New York. ASCI (176)
2. Stimulation of Beta Lipoprotein-Protein Synthesis by Dietary Monosaccharide in the Rat. R. P. EATON* and D. M. KIPNIS, St. Louis, Mo. ASCI (79)
3. Immunoreactive Insulin, Glucose Tolerance and Carbohydrate Inducibility in Familial Endogenous Hypertriglyceridemia. C. J. GLUECK,* R. I. LEVY, and D. S. FREDRICKSON,* Bethesda, Md. AFRCR
4. The Interaction of Diabetes and Obesity on the Regulation of Basal Lipolysis in Man. J. D. BAGDADE,* D. PORTE, JR.,* and E. L. BIERMAN, Seattle, Wash. ASCI (9)
5. Ethnic Variability in Glucose Tolerance and Insulin Secretion. D. L. RIMOIN and J. H. SAIKI,* St. Louis, Mo. and Albuquerque, N. M. AFRCR
6. Evaluation of Factors Regulating Hepatic Control of Insulin Homeostasis. J. B. FIELD, M. WEBSTER,* and T. DRAPANAS,* Pittsburgh, Pa. ASCI (99)
7. Changing Patterns of Gluconeogenesis during Prolonged Starvation. O. E. OWEN,* J. WAHREN,* P. FELIG, and G. F. CAHILL, JR., Boston, Mass. AFRCR
8. Glomerulosclerosis in a Strain of Genetically Diabetic Mice. W. OPPERMAN,* G. TRESER, T. EHRENREICH,* K. LANGE,** R. LEVINE,** and R. A. CAMERINI-DAVALOS,** New York. AFRCR

INFECTIOUS DISEASES

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

Chairman: Dr. Lewis Wannamaker

1. Phagocytosis Independent of Glycolysis in Human Blood Leukocytes. P. T. BODEL* and S. E. MALAWISTA,* New Haven, Conn. (introduced by E. Atkins**). ASCI (25)
2. Species Specificity of Leukocytic Pyrogen. D. L. BORNSTEIN and J. W. WOODS,* Philadelphia, Pa. and Baltimore, Md. AFRCR
3. Absent Myeloperoxidase and Leukocyte Candidacidal Activity in a Patient with Systemic Candidiasis. R. I. LEHRER* and M. J. CLINE, San Francisco, Calif. AFRCR
4. In Vitro Interferon Induction with Various Synthetic and Naturally Occurring Inducers. M. S. FINKELSTEIN,* G. H. BAUSEK,* and T. C. MERIGAN,* Palo Alto, Calif. (introduced by F. L. Eldridge). ASCI (102)

9. Metabolic Abnormality in Pseudohypoparathyroidism: Defective Renal Excretion of Cyclic 3',5'-AMP in Response to Parathyroid Hormone. L. R. CHASE,* G. L. MELSON,* and G. D. AURBACH, Bethesda, Md. ASCI (53)
10. Steroid Induction of Hepatic δ -Aminolevulinic Acid Synthetase (ALAS) In Vivo in the Chick Embryo. R. A. SACHSON,* C. S. SONG,* R. D. LEVERE, and A. KAPPAS,** New York. AFCR
11. Decreased Sensitivity to Feedback Inhibition in Adult Gout with Purine Overproduction. F. M. ROSENBLUM, J. F. HENDERSON,* W. N. KELLEY, and J. E. SEEGMILLER,** 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
3. Mechanism of Resistance to Methotrexate by Leukemic Cells. S. P. ROTHENBERG, C. SCHREIBER,* and M. J. CLARK,* New York. AFCR
4. Therapeutic Effects of L-Asparaginase on Asparagine-Dependent Neoplasms; Laboratory and Clinical Studies. H. F. OETTGEN,* L. J. OLD,* E. A. BOYSE,* and M. K. SCHWARTZ,* New York (introduced by D. A. Karnofsky**). ASCI (218)
5. Ribosome Stability in Tumor Cells. C. A. HIRSCH,* Boston, Mass. (introduced by H. H. Hiatt). ASCI (140)
6. A Mechanism for Wide-Spread Gene Activation of Mammalian Cells. G. WEISSMANN, R. HIRSCHHORN,* W. TROLL,* D. WEISSBERG,* and K. KRAKAUER,* New York. ASCI (301)
7. Endotoxins and Tumor Immunity. G. L. BAILEY, R. B. HAGER,* C. L. HAMPERS, and J. P. MERRILL,** Boston, Mass. AFCR
8. Cell Fractionation and Polyribosome Profiles in Phytohemagglutinin-Stimulated Lymphocytes. H. L. NADLER,* D. Y-Y HSIA,* and R. M. DOWBEN, Chicago, Ill. and Cambridge, Mass. ASCI (215)
9. Paraproteinemia in Lymphoma: Immunofluorescent Studies of the SJJ/J Murine Lymphoma. H. A. FARQUHARSON,* R. F. BAKEMEIER, W. F. HYMES,* and J. L. FAHEY,** Toronto, Canada; Rochester, N. Y.; and Bethesda, Md. AFCR
10. Haptoglobin Metabolism in Polycythemia Vera. S. KRAUSS, New York. 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)
2. Roles of ATP and of Peroxidative Metabolism during Phagocytosis in Alveolar Macrophages (AM). J. B. L. GEE,* E. D. ROBIN,** J. B. FIELD, J. D. SMITH,* A. R. TANSER,* and J. KASKIN,* Pittsburgh, Pa. ASCI (111)
3. Assessment of the Distribution of Ventilation-Perfusion Ratios by Inert Gas Elimination. F. J. KLOCKE, L. E. FARHI,* J. WANKA,* D. E. PITTMAN,* D. G. GREENE,** and I. L. BUNNELL,** Buffalo, N. Y. AFCR
4. Ultrasonic Examination of the Lung. A. ROSS,* E. GENTON, and J. HOLMES,** Denver, Colo. AFCR
5. Effect of Vascular Pressures on Pulmonary Capillary Morphology. J. B. GLAZIER,* J. M. B. HUGHES,* J. E. MALONEY,* D. Y. ROSENSWEIG,* and J. B. WEST,* San Francisco, Calif. (introduced by J. F. Murray). AFCR
6. Potent Vasodepressor Substances in Normal Lung. S. I. SAID, H. L. ESTEP,* M. E. WEBSTER,* and H. A. KONTOS,* Richmond, Va. and Bethesda, Md. ASCI (254)
7. Decrease in Respiratory Sensitivity Following Acute Increase in Hematocrit in the Calf. G. E. BISGARD,* H. G. ALVAREZ,* J. H. K. VOGEL, L. H. HARTLEY,* and R. F. GROVER,** Denver, Colo. AFCR
8. Adaptation of Skeletal Muscle to Acute Arterial Hypoxemia. R. F. COBURN and L. MAYERS,* Philadelphia, Pa. ASCI (61)
9. Role of O₂ and CO₂ in Reversal of Changes in Mechanical Properties of the Lung Following Pulmonary Vascular Occlusion. G. TISI, W. WOLFE,* R. FAL-LAT,* and J. NADEL, San Francisco, Calif. AFCR
10. Pulmonary Artery Blood Volume Determined by Macroaggregated I¹²⁵ Albumin. M. L. LEWIS and C. E. HERRERA,* New York. AFCR
11. Pulmonary Alveolar Proteinosis: A Surfeit of Surfactant? J. RAMIREZ-R and W. R. HARLAN, JR., Baltimore, Md. and Richmond, Va. AFCR

RENAL AND ELECTROLYTE

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

Chairman: Dr. Robert Vernier

1. Mechanism of Sodium Excretion with Reduced Nephron Population. J. P. HAYSLETT,* M. KASHGARIAN,* and F. H. EPSTEIN, New Haven, Conn. ASCI (138)
2. Alterations of Red Blood Cell Sodium Transport during Malarial Infection. M. J. DUNN, Washington, D. C. AFCR

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. BOURGOIGNE,* and N. S. BRICKER, St. Louis, Mo. ASCI (162)
4. Control of Day-to-Day Salt Excretion in Man—Use of the Blind Subject as a Model in Its Elucidation. M. L. SIMENHOFF, Philadelphia, Pa. AFCR
5. Separation of Humoral from Hemodynamic Factors Affecting Proximal Sodium Reabsorption during Blood Volume Expansion. M. GOLDBERG, B. B. STAUM,* and J. L. CRISTOL,* Philadelphia, Pa. ASCI (120)
6. Micropuncture Study of Thin Loop of Henle in the Rat. R. L. JAMISON, St. Louis, Mo. AFCR
7. Effect of Potassium Infusion and Intravenous Diamox on the Interdependence between the Renal Handling of Sodium, Calcium, and Magnesium. S. G. MASSRY, M. POPOVTZER,* L. W. CHAPMAN,* and C. R. KLEEMAN,** Los Angeles, Calif. AFCR
8. The Bioassay of Urinary Parathyroid Hormone-Like Activity in Uremia. J. E. BETHUNE, Z. H. CHAKMAKJIAN,* and R. A. TURPIN,* Los Angeles, Calif. AFCR
9. Guanidinosuccinic Acid: The "X" Factor in Uremic Bleeding? I. M. STEIN,* B. D. COHEN,** and H. I. HOROWITZ, New York. AFCR
10. An Extrarenal Action of Aldosterone on Mammalian Skeletal Muscle. S. ADLER, Pittsburgh, Pa. AFCR
11. Serum Cytotoxin in Kidney Transplantation Rejection. A. D. MANZLER,* Ann Arbor, Mich. (introduced by J. M. Weller**). 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

PRESIDENTIAL ADDRESS

SCIENTIFIC SESSION

INTERMISSION

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

1. Five Blue Soldiers: Methemoglobinemia Provoked by Antimalarial Chemoprophylaxis. RICHARD J. COHEN, JOHN R. SACHS, DONNA J. WICKER,* and MARCEL E. CONRAD, Washington, D. C.
2. Immunosuppressive Treatment of L. E. Nephritis and Steroid Resistant Nephrotic Syndrome. J. DRINKARD,* H. GONICK, R. AUSTIN,* D. ADAMS, E. V. BARNETT, and R. VERNIER, Los Angeles, Calif.
3. Experimental Transplantation of the Spleen for Hemophiliacs. J. C. NORMAN,* V. H. COVELLI,* and H. S. SISE,* Boston, Mass. (introduced by W. B. Hood).
4. Hypocalcemia due to Reversible PTH Resistance. HERSCHEL ESTEP, WALTER SHAW,* C. O. WATLINGTON, CHARLES HOBE,* WILLIAM HOLLAND,* and H. ST. G. TUCKER,** Richmond, Va.
5. Phytanic Acid Storage in Refsum's Disease due to Defective Alpha-Hydroxylation. CHARLES E. MIZE,* JAMES H. HERNDON, JR., SU-CHEN TSAI,* B. WILLIAM UHLENDORF,* HENRY M. FALES,* and DANIEL STEINBERG,** Bethesda, Md.

SCIENTIFIC SESSION

concluded

6. The Mechanism of Natriuresis Immediately Following Unilateral Nephrectomy. F. L. COE, W. N. SUKI, N. A. KURTZMAN,* F. C. RECTOR, JR., and D. W. SELDIN,** Dallas, Tex.
7. Measurement of Hypergastrinemia in the Zollinger-Ellison Syndrome. JAMES E. MCGUIGAN, St. Louis, Mo.
8. Deficiency of Pyrimidine Deoxyribosyltransferase: A New Enzyme Abnormality in Chronic Myelogenous Leukemia (CML). R. C. GALLO, C. DAVIS,* and S. PERRY,** Bethesda, Md.
9. Biologic Activity of Digoxin-Specific Antisera. J. F. WATSON and V. P. BUTLER, Buffalo, N. Y.
10. Isolation of Erythrocytes with Normal Protoporphyrin (PP) Levels in Erythropoietic Protoporphyrin (EPP). L. C. HARBER, N. KAPLOWITZ,* and N. JAVITT, New York.

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

1. Comparison of the Peak Inotropic Effects of a Catecholamine and a Digitalis Glycoside in the Intact Canine Heart. G. DAVID BEISER, MORRIS STAMPER, ROBERT E. GOLDSTEIN,* STEPHEN E. EPSTEIN, and EUGENE BRAUNWALD, Bethesda, Md.
2. Effects of β Adrenergic Drugs on Ventricular Relaxation. R. A. CARLETON and J. G. CLARK,* Chicago, Ill.
3. Myocardial DNA Synthesis in Experimental Cardiac Hypertrophy. EUGENE MORKIN, Boston, Mass.
4. Actions of Ethanol on the Contractile State of the Normal and Failing Cat Papillary Muscle. JAMES F. SPANN, JR., DEAN T. MASON, G. D. BEISER, and HERMAN K. GOLD,* Bethesda, Md.
5. Alteration of the Mechanical Performance of the Ventricle by Intra-Aortic Balloon Diastolic Augmentation. C. URSCHEL,* L. EBER,* J. FORRESTER,* J. MAT-

LOFF,* and E. SONNENBLICK, with the technical assistance of R. Carpenter, Boston, Mass.

6. Stimulation of Intracardiac Nerves during Counter-shock. FREDERICK R. COBB,* GALEN S. WAGNER,* and ANDREW G. WALLACE, Durham, N. C.

DERMATOLOGY

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

Dr. Joseph Maguire, Presiding

1. Studies on the Dermo-Epidermal Junction in Lupus Erythematosus. D. L. TUFFANELLI, D. M. KAY,* and K. FUKUYAMA,* San Francisco, Calif.
2. Distribution and Localization of *Corynebacterium acnes* in Acne and Normal Subjects by Immunofluorescent Staining. S. IMAMURA,* W. R. McCABE, J. S. STRAUSS, and P. E. POCHI, Boston, Mass.
3. Tumor Immunity and Cancer Specific Antigens in Malignant Melanoma. H. J. SMITH,* R. C. WONG,* and M. GÖKÇEN, Minneapolis, Minn.
4. Cell Proliferation Kinetics in Basal Cell Carcinoma. G. D. WEINSTEIN and P. FROST, Miami, Fla.
5. Sulfur-Containing Proteins and Epidermal Keratinization. K. FUKUYAMA* and W. L. EPSTEIN,** San Francisco, Calif.
6. Topical Vitamin A Acid for Scaling Dermatoses. P. FROST and G. D. WEINSTEIN, Miami, Fla.

ENDOCRINOLOGY

7:30 p.m., Pennsylvania Room III, Haddon 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 Tyrosine 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 (T_4) and Iodide (I^-) Leak in Thyrotoxicosis. L. WARTOFSKY* and S. H. INGBAR, Boston, Mass.
4. Effects of Adrenal Cortex on Thyrocalcitonin. J. S. THOMPSON,* G. M. A. PALMIERI, and L. P. ELIEL,** Oklahoma City, Okla.
5. The Syndrome of Juxtaglomerular Hyperplasia and Hyperaldosteronism without Hypertension: Studies on Pathophysiological Mechanisms. EMMANUEL BRAVO* and FREDERIC C. BARTTER,** Bethesda, Md.
6. FSH Metabolic Clearance Rates (MCR) and Production Rates (PR) in Women. Y. D. COBLE,* P. O. KOHLER, C. M. CARGILLE,* and GRIFF T. ROSS,* Bethesda, Md.

GASTROENTEROLOGY

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

Dr. John M. Dietschy, Presiding

1. A Non-Bilirubin Pathway for the Degradation of Heme in the Liver. EDWARD W. CALLAHAN, JR.,* STEPHEN A. LANDAW, and RUDI SCHMID,** San Francisco, Calif.
2. Cholesterol Ester Storage Disease: Electron Microscopy of Liver and Jejunum. JOHN C. PARTIN* and WILLIAM K. SCHUBERT,** Cincinnati, Ohio.
3. Experimental Diarrhea: Intestinal Electrolyte and Water Transport in Rat Salmonella Enterocolitis. D. W. POWELL,* G. R. PLOTKIN, R. N. MAENZA,* and S. B. FORMAL,* Washington, D. C.
4. Effect of Ethanol on Hepatic Lipoprotein Production. E. BARAONA* and C. S. LIEBER, New York.
5. Hepatic Transport in Hypoxia. J. SHOREY,* S. SCHENKER, and B. COMBES, Dallas, Tex.
6. Fatty Acid Absorption in Absence of Bile Salt: Biochemical and Structural Study. FERNAND PHILIPPON* and FRED KERN, JR.,** Denver, Colo.

HEMATOLOGY

7:30 p.m., Vernon Room, Haddon 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. DONABEDIAN* and YALE NEMERSON, New Haven, Conn.
3. Damage to Erythrocytes Resulting from Shearing Stress. C. G. NEVARIL,* C. P. ALFREY, JR., E. C. LYNCH, and J. D. HELLUMS,* Houston, Tex.
4. Mechanism of Action of Reduced Glutathione (GSH) in Formation of PNH-Like Cells. L. P. EBBERT,* K. SMITH, R. CAROLLA,* and C. E. MENGEL, Columbus, Ohio.
5. The Mechanism by Which Plethora Suppresses Erythropoietin Production. T. KILBRIDGE,* W. FRIED, and P. HELLER,* Chicago, Ill.
6. Virus-Induced Hemolysis in G-6-PD-Deficient Erythrocytes. THOMAS F. NECHELES and DOV GORSHEIN,* Boston, Mass.

IMMUNOLOGY

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

Dr. Nathan J. Zvaifler, Presiding

1. Abnormal Granulocyte Response to Etiocholanolone in Rheumatic Diseases. S. M. WOLFF, H. R. KIMBALL, N. TALAL, P. H. PLOTZ,* and J. L. DECKER,** Bethesda, Md.

2. Biosynthetic and Structural Studies of Heavy-Chain Disease Protein. DANIEL EIN* and DONALD BUELL,* Bethesda, Md. (introduced by John L. Fahey**).
3. Mechanisms of Immunologically Induced Rabbit Platelet Injury. RICHARD E. BRYANT and ROGER M. DES PRES, Nashville, Tenn.
4. Suppression of Cellular Immunity by Lymph Duct Drainage in Man. H. E. SARLES, A. R. REMMERS, G. A. BEATHARD,* C. O. CANALES, J. C. FISH, G. MCKAY,* S. HAWTHORNE,* and S. E. RITZMANN, Galveston, Tex.
5. Antigen Stimulated Lymphocyte Transformation. In Vitro Evidence for Clonal Proliferation. W. H. MARSHALL,* F. T. VALENTINE,* and H. S. LAWRENCE,* New York. (introduced by S. Farber**).
6. Attempt to Transfer Contact Sensitivity in Man with Leukocyte Dialysate. MICHAEL H. BRANDRISS, Rochester, N. Y.
3. The Metabolism of Vitamin D in Chronic Renal Disease. L. V. AVIOLI, S. BIRGE, and E. SLATOPOLSKY, St. Louis, Mo.
4. Inactivation of Serum Lipoprotein Lipase (LPL) by the Liver in Unanesthetized Dogs. T. F. WHAYNE, JR.,* J. M. FELTS,* and P. A. HARRIS,* San Francisco, Calif. (introduced by A. Bezman-Tarcher).
5. Intestinal Alkaline Phosphatase Activity in Familial Hypophosphatasia. STUART H. DANOVITCH,* PAUL H. BAER,* and LEONARD LASTER, Bethesda, Md.
6. Characterization of Amino Acid-Initiated Insulin Release In Vitro. P. EDGAR,* D. RABINOWITZ, and T. J. MERIMEE, Baltimore, Md.

NEOPLASTIC DISEASES

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

Dr. Robert S. Schwartz, Presiding

INFECTIOUS 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.
2. The Divergent Effects of Endotoxin Fractions on Granulocytes and the Plasma Kinin System. A. S. NIES,* D. K. GREINER,* M. J. CLINE, and K. L. MELMON, Cleveland, Ohio.
3. Pleural Effusion as a Manifestation of Hypersensitivity to a Bacterial Antigen. J. C. ALLEN and M. A. APICELLA, Baltimore, Md.
4. Molecular Basis of Interferon Action. WILLIAM A. CARTER and HILTON B. LEVY,* Baltimore, Md.
5. Impairment of Phytohemagglutinin (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.
1. The Thymus and Malignancy. I. Association of Thymoma with Cancer. JACQUES V. SOUADJIAN,* MURRAY N. SILVERSTEIN, and JACK L. TITUS,* Rochester, Minn. (introduced by B. L. Riggs).
2. Hormonal Dependence of DNA Synthesis in Mammary Carcinoma Cells In Vitro. R. W. TURKINGTON and R. HILF,* Durham, N. C. and New Brunswick, N. J.
3. Increased Plasma Gonadotropin heralding Clinical Recognition of Bronchogenic Carcinoma. SAUL W. ROSEN, SHELDON SCHLAFF,* CHARLES E. BECKER,* and MORTON GLUCK,* Washington, D. C.
4. An Acute Effect of Cyclophosphamide (CTX) on the Renal Concentrating Mechanism of Man. J. B. BLOCK, A. A. SERPICK, and T. H. STEELE,* Baltimore, Md.
5. Cardiovascular Pharmacology of Daunomycin. J. G. BERNSTEIN,* J. C. CRADOCK,* W. L. THOMPSON,* and N. R. BACHUR,* Baltimore, Md. (introduced by A. A. Serpick).
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.

METABOLISM

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

Dr. David Rabinowitz, Presiding

1. Fatty Acid Regulation of Hepatic Gluconeogenesis. N. B. RUDERMAN, E. SHAFRIR,* and R. BRESSLER, Durham, N. C.
2. Failure of Bile Acids to Regulate Hepatic Cholesterol synthesis. HANS J. WEIS* and JOHN M. DIETSCHY, Dallas, Tex.

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.

3. Patient Care Orientation in a Journal. EDWARD A. FELDER* and LEWIS A. MILLER,* Stamford, Conn. (introduced by David P. Lauler).
4. Comprehensive Evaluation and Rehabilitation of Chronically Ill Ambulatory Patients. CYNTHIA B. DUTTON* and ROBERT E. DUTTON,** Baltimore, Md.
5. Delivery of Follow-Up Services to Patients Discharged from a N. Y. City Municipal Hospital. BERT BELL, HOWARD ADLER,* FRANCO MUGGIA, and MICHAEL SOBEL,* Bronx, N. Y.
6. Mass Transportation and Census Tract Factors Affecting Clinic Utilization. ROBERT C. BUXBAUM and LEON ROBERTSON,* Boston, Mass.
5. Pathophysiology of Byssinosis. K. P. VAN DE WOESTIJNE,* J. S. DOUGLAS,* and A. BOUHUYS,** New Haven, Conn.
6. Comparison of Pulmonary Diffusing Capacity Measured in Patients by Standard Methods and the Uptake-Washout Method. CHARLES MITTMAN, Los Angeles, Calif.

RENAL AND ELECTROLYTE

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

Dr. Martin Goldberg, Presiding

- ### PULMONARY DISEASES
- 7:30 p.m., Music Room, Chalfonte
- Dr. Jay A. Nadel, Presiding
1. The Coagulopathy of Hypobaric Induced Polycythemia and Its Reversal with Heparin. M. BERNADETTE GARVEY,* LEWIS H. DENNIS, and MARCEL E. CONRAD, Washington, D. C.
 2. Reactivity of the Pulmonary Vascular Bed in Swine. J. H. K. VOGEL, J. T. OKIN,* J. H. CARLISLE,* M. MARKARIAN,* G. JAMIESON,* and J. G. ROSENKRANTZ,* Denver, Colo.
 3. Mast Cells in the Lung: Distribution and Possible Role in Histamine Release and Uptake. SAMI I. SAID, YVONNE T. MADDOX,* ORHAN MUREN,* and BRIAN J. KIRBY,* Richmond, Va.
 4. Exercise Response in Tetralogy of Fallot. W. GOLD, L. MATTIOLI,* and A. PRICE,* Boston, Mass.
 1. Intracellular pH (pHi) in Chronic Potassium Deficiency in the Rat. D. S. CAMPION, N. W. CARTER,** F. C. RECTOR, JR., and D. W. SELDIN,** Dallas, Tex.
 2. Micropuncture Study of Magnesium Reabsorption in the Proximal Tubule of the Dog. M. BRUNETTE,* S. F. WEN, and J. H. DIRKS, Montreal, Canada.
 3. Evidence for Enhanced Sodium Reabsorption in the Distal Tubule of Caval Dogs. G. J. KALOYANIDES,* R. J. CACCIAGUIDA,* N. PABLO,* and J. G. PORUSH, Brooklyn, N. Y.
 4. The Magnitude of Natriuresis during Saline Loads in Dog. M. LEVY, NORMAN G. LEVINSKY, and RICHARD C. LALONE,* Boston, Mass.
 5. The Effect of Carbohydrate Administration on Urinary Calcium and Magnesium Excretion. W. F. PIERING,* J. LEMANN, JR., and E. J. LENNON, Milwaukee, Wis.
 6. The Latent Effect of Volume Expansion on Urate Reabsorption in Man. T. H. STEELE,* Baltimore, Md. (introduced by J. B. Block).

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

1. Observations on the Plasma Kallikreinogen-Kallikrein Enzyme System. SOL SHERRY and ROBERT COLMAN,* Philadelphia, Pa. and Boston, Mass.
2. Erythrocyte Enzymopathies with Special Preference to Hemolytic Anemia and a New, Specific Disorder of Glycolysis (Phosphoglycerate Kinase-PKG Deficiency). W. N. VALENTINE, H. SHIEH,* D. E. PAGLIA,* H. M. ANDERSON,* M. A. BAUGHAN,* and E. R. JAFFE,* Los Angeles, Calif.
3. Chronic Nonhemolytic Unconjugated Hyperbilirubinemia with Hepatic Glycuronyl Transferase Deficiency: Evidence for Genetic Heterogeneity. IRWIN M. ARIAS,* LAWRENCE M. GARTNER,* MICHAEL COHEN,* JUDITH BEN EZZER,* and A. JONATHAN LEVI,* New York (introduced by Irving M. London).
4. On the Nature of the Circulating Thyroid Hormone: Clinical Studies of Triiodothyronine and Thyroxine in Serum Using Gas Chromatographic Methods. CHARLES S. HOLLANDER,* Rochester, N. Y. (introduced by Seymour Reichlin).
5. Radioassays of Non-Antigenic Hormones. B. E. P. MURPHY,* Montreal, Canada. (introduced by J. S. L. Browne).
6. Experiences with a Radioimmunoassay of Parathyroid Hormone in Human Sera. ERIC REISS,* JANET M. CANTERBURY,* and RICHARD H. EGDAHL,* Chicago, Ill. and Boston, Mass. (introduced by David M. Kipnis).
7. Tissue Protein Catabolism as a Source of Amino Acid. EDGAR C. HENSHAW,* PREDRAG MILOSEVIC,* and HOWARD H. HIATT, Boston, Mass.
8. A Study of the Cytoplasmic Granules in Renal Papillary Interstitial Cells in Relation to Hypertension. LOUIS TOBIAN, MASAO ISHII,* and MARYANN DUKE,* Minneapolis, Minn.

9. Factors Affecting Blood Pressure in Population Groups. HERBERT G. LANGFORD,* ROBERT L. WATSON,* and BEN H. DOUGLAS,* Jackson, Miss. (introduced by Harper K. Hellems).
10. The Renal Handling of Hemoglobin. H. FRANKLIN BUNN* and JAMES H. JANDL, Boston, Mass.

AFTERNOON

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

SCIENTIFIC SESSION

(continued)

11. Experimental Obesity in Man. E. A. H. SIMS,* R. A. HOLDEN,* E. S. HORTON,* C. M. GLUCK,* R. F. GOLDMAN,* P. C. KELLEHER,* D. W. ROWE,* and H. C. VAN BUREN,* Burlington, Vt. (introduced by J. Russell Elkinton).
12. Parkinsonism and Dopa. GEORGE C. COTZIAS,* PAUL S. PAPAVALILOU,* ROSEMARY GELLENE,* and ROBERT B. ARONSON,* Upton, N. Y. (introduced by Eugene P. Cronkite).
13. Computer Evaluation of Acid-Base Abnormalities. HOWARD L. BLEICH,* Boston, Mass. (introduced by Irving H. Goldberg).
14. "Uremic Lipemia"; An Unrecognized Abnormality in Triglyceride Synthesis and Removal. JOHN D. BAGDADE,* DANIEL PORTE, JR.,* F. K. CURTIS,* and EDWIN L. BIERMAN,* Seattle, Wash. (introduced by Robert S. Evans).
15. The Disappearance of Intractable Pruritus after Parathyroidectomy in Uremic Patients with Secondary Hyperparathyroidism. CHARLES R. KLEEMAN, S. G. MASSRY,* M. M. POPOVTZER,* D. L. MAKOFF,* MORTON H. MAXWELL,* and J. W. COBURN,* Los Angeles, Calif.
16. Induction of a Ouabain-Sensitive ATPase Defect by Uremic Plasma. C. COLE,* J. W. BALFE,* and L. G. WELT, Chapel Hill, N. C.
17. Metabolic Studies in the African Pygmy. T. J. MERIMEE,* D. L. RIMOIN,* D. RABINOWITZ,* and L. L. CAVALLI-SFORZA,* Baltimore, Md. and St. Louis, Mo. (introduced by Victor McKusick).
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20. Immunologic and Chemical Similarities between the Streptococcus and Human Connective Tissue. JOHN SANDSON,* DAVID HAMERMAN,* ROSAMOND JANIS,* and MARCOS ROHKIND,* New York (introduced by Howard A. Eder).

WEDNESDAY MORNING, MAY 8

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

PRESENTATION OF
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21. Insulin Blockage of Amino Acid Release by Human Forearm Tissues. T. POZEFSKY,* P. FELIG,* J. S. SOELDNER,* and G. F. CAHILL, JR., Boston, Mass.
22. Muscle Metabolism during Exercise in Man. KENNETH L. ZIERLER, ATTILIO MASERI,* GERALD KLASSEN,* DAVID RABINOWITZ,* and JOHN BURGESS,* Baltimore, Md.
23. Intrarenal Blood Flow Distribution in the Transplanted Human Kidney. N. K. HOLLENBERG,* M. EPSTEIN,* S. M. ROSEN,* G. DAMMIN,* and J. P. MERRILL, Boston, Mass.
24. Immunological Differentiation of Etiologic Types of Atrophic Gastritis. G. B. JERZY GLASS, IRENA BRUS,* ELIZABETH JACOB,* HOWARD I. SIEGEL,* NUBUO TANAKA,* HERBERT WEISBERG,* and NOBUO YAMAGUCHI,* New York.
25. Evidence That the Spleen Retains the Youngest and Hemostatically Most Effective Platelets. N. RAPHAEL SHULMAN, STANLEY P. WATKINS, JR.,* SAMUEL B. ITSCOTTZ,* and ARIANA B. STUDENTS,* Bethesda, Md.
26. Antitoxin Immunity in Experimental Canine Cholera. G. T. CURLIN,* A. SUBONG,* and C. C. J. CARPENTER,* Baltimore, Md. (introduced by A. M. Fisher).
27. Production of Bladder Stones by L-forms. A. I. BRAUDE and JENNIE SIEMIENSKI,* Pittsburgh, Pa.
28. The Role of the Liver in the Production of Fever and in Pyrogenic Tolerance. CHARLES A. DINARELLO,* PHYLLIS BODEL,* and ELISHA ATKINS, New Haven, Conn.

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