

AMERICAN SOCIETY FOR
CLINICAL
INVESTIGATION

67TH ANNUAL MEETING · INCLUDING PROGRAMS FOR
THE AMERICAN FEDERATION FOR CLINICAL RESEARCH
AND THE ASSOCIATION OF AMERICAN PHYSICIANS

1975 PROGRAM

MAY 3-6 · HADDON HALL · ATLANTIC CITY

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Program

Sixty-seventh Annual Meeting

THE AMERICAN SOCIETY FOR CLINICAL INVESTIGATION

Pennsylvania Room, Haddon Hall

Atlantic City, New Jersey

MONDAY, MAY 5, 1975

(Time for presentation of each paper will be limited to 10 minutes)

MORNING SESSION 9:00 A.M.

First Business Session 9:00 A.M.

Presidential Address
Eugene Braunwald

Scientific Session
Eugene Braunwald, *Presiding*

1. ABSENCE OF A COBALAMIN BINDING PROTEIN IN CULTURED FIBROBLASTS FROM PATIENTS WITH DEFECTIVE COBALAMIN COENZYME SYNTHESIS. L. E. Rosenberg and L. Patel,* New Haven, Connecticut. *page 399A*
2. THE MOLECULAR BASIS OF THE α -THALASSEMIA SYNDROMES. Y. W. Kan,* A. M. Dozy,* H. E. Varmus,* J. M. Taylor,* J. P. Holland,* L. E. Lie-Injo,* J. Ganesan,* and D. Todd,* (Intr. by H. E. Williams), San Francisco, California, and Hong Kong. *page 398A*
3. EXPRESSION OF HUMAN GLOBIN GENES IN INTERSPECIES SOMATIC CELL HYBRIDS. A. Deisseroth,* R. Velez,* W. F. Anderson, and A. Nienhuis,* Bethesda, Maryland. *page 398A*
4. ACETYLATION OF A PROTEIN OF HUMAN PLATELETS BY ASPIRIN. G. J. Roth* and P. W. Majerus, St. Louis, Missouri. *page 406A*
5. ABNORMAL VITAMIN B₆ METABOLISM IN SIDEROBLASTIC ANEMIA: EFFECT OF PYRIDOXAL PHOSPHATE THERAPY. J. D. Hines and D. Love (Intr. by C. H. Rammelkamp**), Cleveland, Ohio. *page 403A*
6. A NEW MACROPHAGE ACTIN-BINDING PROTEIN: EVIDENCE FOR ITS ROLE IN ENDOCYTOSIS. T. P. Stossel* and S. H. Pincus* (Intr. by D. G. Nathan), Boston, Massachusetts. *page 407A*
7. LEAKY LEUKOCYTES IN FAMILIAL MEDITERRANEAN FEVER. M. C. Territo,* R. S. Peter,* and M. J. Cline, Los Angeles, California. *page 418A*
8. EFFECT OF ACUTE AMMONIA INTOXICATION ON CEREBRAL METABOLISM IN RATS WITH PORTACAVAL SHUNTS. T. E. Duffy,* B. Hindfelt,* and F. Plum,** New York, New York. *page 393A*
9. THE PATHOGENESIS OF ARTHRITIS ASSOCIATED WITH ACUTE AND CHRONIC ACTIVE HEPATITIS: COMPLEMENT SEQUENCE ACTIVATION AND CHARACTERIZATION OF CIRCULATING IMMUNE COMPLEXES. J. R. Wands,* E. Alpert, and K. J. Isselbacher,** Boston, Massachusetts. *page 397A*
10. CATHECHOLAMINE INDUCED SUBSENSITIVITY OF ADENYLATE CYCLASE COUPLED β -ADRENERGIC RECEPTORS. C. Mukherjee,* M. G. Caron,* and R. J. Lefkowitz* (Intr. by J. B. Wyngaarden), Durham, North Carolina. *page 389A*
11. PHYSIOLOGIC FUNCTION AND STRUCTURE OF A STEROID HORMONE RECEPTOR PURIFIED TO HOMOGENEITY. R. E. Buller,* R. W. Kuhn,* W. T. Schrader,* and B. W. O'Malley,** Houston, Texas. *page 387A*
12. NUCLEAR POLYADENYLIC SYNTHESIS AND THE ACTION OF THYROID HORMONE: A CLUE TO THE BIOLOGIC ROLE OF THE NUCLEAR RECEPTOR. H. H. Samuels* and J. S. Tsai* (Intr. by C. S. Hollander), New York, New York. *page 389A*

*By invitation.

**Senior member.

Second Business Session

Scientific Session

13. PREVENTION AND REVERSAL OF HUMAN DIABETIC KETOACIDOSIS BY SOMATOSTATIN: EVIDENCE FOR AN ESSENTIAL ROLE OF GLUCAGON. J. E. Gerich,* M. Lorenzi,* E. Tsalikian,* V. Schneider,* J. H. Karam,* D. Bier,* and P. H. Forsham,** San Francisco, California. page 421A
14. CALCIUM IONOPHORE AS A MITOGEN: RESPONSE OF NORMAL HUMAN T AND B AND IMMUNODEFICIENT LYMPHOCYTES. J. H. Kersy,* A. Sabad,* J. C. Vance,* J. G. White, and A. N. Neely,* Minneapolis, Minnesota. page 411A
15. IDENTITY AND CYTOTOXIC CAPACITY OF CELLS INFILTRATING RENAL ALLOGRAFTS. T. B. Strom,* C. B. Carpenter, N. L. Tilney,* and G. J. Busch,* Boston, Massachusetts. page 413A
16. TUMOR SPECIFIC ANTIGENS IN HUMAN MULTIPLE MYELOMA. M. R. MacKenzie* and T. Paglieroni* (Intr. by P. Gulyassy), Davis, California. page 425A
17. MICROVILLI ON CANCER CELLS CAUSE INCREASED AGGLUTINABILITY AND ARE MODULATED BY CYCLIC ADENOSINE MONOPHOSPHATE. M. C. Willingham* and I. Pastan,** Bethesda, Maryland. page 426A
18. JEJUNAL AND ILEAL MALABSORPTION OF CALCIUM IN PATIENTS WITH CHRONIC RENAL DISEASE ON HEMODIALYSIS: CORRECTION OF THE DEFECT BY 1 α -HYDROXY VITAMIN D. P. Vergne-Marini,* C.Y.C. Pak, T. F. Parker,* A. R. Hull,* H. F. DeLuca,* and J. S. Fordtran, Madison, Wisconsin, and Dallas, Texas. page 434A
19. EARLY LYSOSOMAL DISRUPTION IN MYOCARDIAL INFARCTION AND PROTECTION BY METHYLPREDNISOLONE. G. Weissmann, S. Hoffstein,* H. Kaplan,* D. Gennaro,* J. Hirsch,* and A. C. Fox,* New York, New York. page 383A
20. PULMONARY CAPILLARY LEUKOSTASIS: A COMPLEMENT MEDIATED COMPLICATION OF HEMODIALYSIS. P. Craddock,* J. Fehr,* K. Brigham,* and H. Jacob, Minneapolis, Minnesota, and Nashville, Tennessee. page 402A
22. ROLE OF THE VAGUS NERVES IN THE VENTILATORY RESPONSE OF CONSCIOUS, ALLERGIC DOGS TO *ASCARIS SUUM* ANTIGEN. D. J. Cotton,* E. R. Bleecker,* S. P. Fischer,* J. A. Nadel,** and W. M. Gold, San Francisco, California. page 427A
23. PREDICTION OF INFLAMMATORY ACTIVITY IN INTERSTITIAL PNEUMONITIS BY BRONCHOFIBERSCOPIC PULMONARY LAVAGE. G. S. Davis,* A. R. Brody,* J. N. Landis,* W. G. B. Graham,* J. E. Craighead,* and G. M. Green, Burlington, Vermont. page 427A

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SYMPOSIUM

THE AMERICAN FEDERATION FOR CLINICAL RESEARCH

Presents a Symposium

**“TOWARD A DEFINITION OF FETAL LIFE:
ETHICAL AND LEGAL OPTIONS AND THEIR
IMPLICATIONS FOR BIOLOGISTS AND PHYSICIANS”**

Saturday, May 3, 1975, 3:00 P.M.

Pennsylvania Room II, Haddon Hall

Chairperson: Robert J. Levine, Yale University
School of Medicine, New Haven,
Connecticut

Participants:

1. JOHN C. FLETCHER, President, Interfaith Metropolitan Theological Education, Inc., Washington, D.C.
2. ALEXANDER M. CAPRON, Assistant Professor, University of Pennsylvania Law School, Philadelphia, Pennsylvania.
3. MAURICE J. MAHONEY, Associate Professor, Human Genetics and Pediatrics, Yale University School of Medicine, New Haven, Connecticut.
4. BERNARD L. MIRKIN, Professor, Pediatrics and Pharmacology, University of Minnesota, Minneapolis, Minnesota.

The purpose of this Symposium is to expose and explore the issues involved in developing formal definitions of the beginning and end of fetal life. The timeliness of this Symposium in relation to formation of public policy is discussed in an editorial in *CLINICAL RESEARCH* (April 1975). Dr. Fletcher will present, from his perspective as an ethicist, the options and alternatives that are available. Professor Capron will survey the law as it is now and the options that exist for its further evolution. The next two speakers will analyze the implications of developing as public policy the various options suggested by the first two: How might such public policy influence the future of not only clinical investigation but also

the practice of medicine? Dr. Mahoney will focus on the future development of diagnostic techniques, genetic counseling, and non-pharmacological therapy. Dr. Mirkin will discuss the impact of public policy on the development of rational drug therapy for pregnant women and children. An attempt will be made to develop an understanding of the relative costs and benefits both to individuals and to society of developing as public policy each of the various proposed definitions.

Each formal presentation will last 20 to 25 minutes; the general discussion, which will follow the fourth presentation, will end no later than 5:45 P.M.

Program

Thirty-second Annual Meeting

THE AMERICAN FEDERATION FOR CLINICAL RESEARCH

Pennsylvania Room, Haddon Hall

Atlantic City, New Jersey

SUNDAY, MAY 4, 1975

GENERAL SESSION

Robert A. Kreisberg, *Presiding*
Business Session 8:30 A.M.

Scientific Session 9:00 A.M.

1. 5-FLUOROURACIL, ADRIAMYCIN AND CYCLOPHOSPHAMIDE COMBINATION CHEMOTHERAPY FOR METASTATIC BREAST CANCER. G. R. Blumenschein,* J. O. Cardenas,* R. B. Livingston, L. H. Einhorn, E. J. Freireich,** and J. A. Gottlieb, Houston, Texas, and Indianapolis, Indiana. *page 336A*
2. EFFECT OF HYPEROXIA ON 5-HYDROXYTRYPTAMINE UPTAKE BY NORMAL AND VITAMIN E DEFICIENT RAT LUNGS. E. R. Block* and A. B. Fisher, Philadelphia, Pennsylvania. *page 345A*
3. COMPLEMENT AND IMMUNOGLOBULINS STIMULATE SUPEROXIDE PRODUCTION BY HUMAN LEUKOCYTES INDEPENDENTLY OF PHAGOCYTOSIS. I. M. Goldstein, D. Roos,* H. Kaplan,* and G. Weissmann,** New York, New York. *page 304A*
4. STEROIDS AND HEMATOPOIESIS: DIFFERENT TARGET CELLS FOR ANDROGENIC AND NON-ANDROGENIC STEROIDS. J. W. Singer* and J. W. Adamson, Seattle, Washington. *page 282A*
5. EVALUATION OF EXTERNAL PRESSURE CIRCULATORY ASSIST IN ACUTE MYOCARDIAL INFARCTION. J. V. Messer,** J. T. Willerson, H. S. Loeb, J. M. Criley,** E. A. Amsterdam, J. S. Banas, and Collaborating Investigators, Chicago, Illinois. *page 197A*

Presidential Address
Robert A. Kreisberg

Intermission

Scientific Session
David Challoner, *Presiding*

6. DECREASED GLUCAGON TURNOVER: MECHANISM OF HYPERGLUCAGONEMIA AND GLUCOSE INTOLERANCE IN UREMIA. R. Sherwin,* M. Fisher,* C. Bastl,* R. Hendler, H. Black,* F. O. Finkelstein, and P. Felig, New Haven, Connecticut. *page 332A*
7. EVIDENCE THAT FIXED NEGATIVE CHARGES ON THE GLOMERULAR CAPILLARY WALL CONTRIBUTE TO RESTRICTION TO ALBUMIN TRANSPORT. W. M. Deen,* R. L. Chang,* C. R. Robertson,* and B. M. Brenner, San Francisco, California. *page 359A*
8. PLASMA CONCENTRATION AND RENAL CLEARANCE OF PROCAINAMIDE AND ITS ACETYLATED METABOLITE IN MAN. M. M. Reidenberg, D. E. Drayer,* M. Levy,* and H. Warner,* New York, New York, and Philadelphia, Pennsylvania. *page 223A*
9. IS AROMATIZATION OF TESTOSTERONE TO ESTRADIOL REQUIRED FOR LUTEINIZING HORMONE SUPPRESSION IN MEN? R. J. Santen, Hershey, Pennsylvania. *page 241A*
10. FAILURE OF BILE SALT TO REGULATE β -HYDROXY β -METHYL GLUTARYL COENZYME A REDUCTASE IN THE ISOLATED PERFUSED LIVER. A. Cooper and S. Leu,* Stanford, California. *page 248A*

*By invitation.

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Program—Subspecialty Meetings

Sponsored by

THE AMERICAN FEDERATION FOR CLINICAL RESEARCH

Chalfonte-Haddon Hall and LaFayette Hotels

Atlantic City, New Jersey

SATURDAY EVENING, MAY 3, 1975

Cardiovascular I,† *Carolina Room, Chalfonte*
Cardiovascular II, *Music Room, Chalfonte*
Clinical Epidemiology and Health Care Research,†
Solarium, Haddon Hall
Endocrinology I,† *Rutland Room, Haddon Hall*
Gastroenterology I, *Pennsylvania Room II, Haddon Hall*
Hematology I, *Windsor Room, Haddon Hall*
Immunology and Connective Tissue I, *Pennsylvania Room I, Haddon Hall*

Infectious Disease I,† *Pennsylvania Room III, Haddon Hall*
Metabolism I, *Vernon Room, Haddon Hall*
Oncology, *Garden Room, Haddon Hall*
Pulmonary I,† *Teakwood Room LaFayette*
Renal and Electrolyte I, *Viking Room, Haddon Hall*
Renal and Electrolyte II, *West Room, Haddon Hall*

†Followed by Symposium.

Cardiovascular I

Carolina Room, Chalfonte

7:00 P.M.

Stephen Vatner and Kern Wildenthal, *Presiding*

1. IMPROVEMENT OF BLOOD FLOW TO ISCHEMIC MYOCARDIUM BY NITROGLYCERIN AND DIPYRIDAMOLE IN EXPERIMENTAL INFARCTION. L. C. Becker* (Intr. by M. L. Weisfeldt), Baltimore, Maryland. *page 172A*
2. FAILURE OF NITROPRUSSIDE TO IMPROVE FUNCTION OF REGIONALLY ISCHEMIC MYOCARDIUM. C. W. Urschel and R. W. Chagra-sulis,* Mobile, Alabama. *page 211A*

3. TRANSMURAL MYOCARDIAL BLOOD FLOW DURING RESTRICTED CORONARY INFLOW. R. J. Bache, Durham, North Carolina. *page 171A*
4. THE INFLUENCE OF DOBUTAMINE ON HEMODYNAMICS AND REGIONAL MYOCARDIAL PERFUSION IN PATIENTS WITH AND WITHOUT CORONARY ARTERY DISEASE. S. L. Meyer,* G. C. Curry,* M.S. Donsky,* D. B. Tweig,* R. W. Parkey,* E. M. Stokely,* C. B. Mullins, and J. T. Willerson (Intr. by J. M. Atkins), Dallas, Texas. *page 197A*

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5. MITOCHONDRIAL FUNCTION FOLLOWING REVASCULARIZATION OF ISCHEMIC MYOCARDIUM. J. J. Kane,* K. D. Straub,* M. L. Murphy,** J. E. Doherty,** and N. de Souza, Little Rock, Arkansas. *page 188A*
6. REGIONAL MYOCARDIAL PERFUSION WITH INTRACORONARY ISOTOPE INJECTIONS AT REST AND DURING PACING-INDUCED STRESS IN MAN. D. R. Redwood, H. Agress, Jr.,* A. S. Pearlman,* W. R. Brody,* R. W. Myers,* S. B. Itscoitz,* M. V. Green,* J. J. Bailey,* and G. S. Johnston,* Bethesda, Maryland. *page 204A*
7. ACUTE MYOCARDIAL INFARCTION: ST SEGMENT ELEVATION MAPS AND O₂ BREATHING. J. E. Madias and W. B. Hood, Jr.,** Boston, Massachusetts. *page 194A*
8. THE EFFECT OF HYPEROSMOTIC MANNITOL ON MYOCARDIAL OXYGEN CONSUMPTION. G. J. Vlahakes* and W. J. Powell, Jr., Boston, Massachusetts. *page 213A*

Symposium

"Techniques and Interventions in Acute Myocardial Infarction"

Moderator: Charles E. Rackley

Participants:

1. VIRTUES AND LIMITATIONS OF ENZYMATIC ESTIMATION OF INFARCT SIZE. Burton E. Sobel, Washington University, St. Louis, Missouri.
2. VASODILATORS IN ACUTE PUMP FAILURE: SUCCESS AND COMPLICATIONS. Kamalendu Chatterjee, University of California, San Francisco, California.
3. METABOLIC INTERVENTIONS IN ACUTE MYOCARDIAL INFARCTION. Charles E. Rackley, University of Alabama Medical Center, Birmingham Alabama.

Cardiovascular II

Music Room, Chalfonte

7:00 P.M.

William Grossman and Richard L. Popp, *Presiding*

1. HALOFENATE: A POTENT INHIBITOR OF NORMAL AND HYPERSENSITIVE PLATELETS. R. W. Colman, J. F. Sheridan,* J. S. Bennett,* and S. J. Shattil, Philadelphia, Pennsylvania. *page 177A*
2. EFFECT OF EMOTIONAL STRESS ON PLATELET AGGREGATION IN HUMANS. J. I. Haft and Y. S. Arkel,* Newark, New Jersey. *page 186A*
3. TOLBUTAMIDE INDUCED ALTERATION OF LEFT VENTRICULAR FUNCTION IN DIABETES. C. F. Wu,* B. Haider, S. S. Ahmed, H. A. Oldewurtel,* M. M. Lyons,* and T. J. Regan,** Newark, New Jersey. *page 215A*
4. INFLUENCE OF AGING ON LEFT VENTRICULAR STIFFNESS. G. H. Templeton, M. R. Platt,* J. T. Willerson, and M. L. Weisfeldt,* Dallas, Texas, and Baltimore, Maryland. *page 210A*

5. CARDIAC HYPERTROPHY IN ACUTE THYROTOXICOSIS: A NEW MYOSIN? T. C. Smitherman, R. S. Johnson,* and E. G. Richards,* Dallas, Texas. *page 209A*
6. ASYMMETRIC SEPTAL HYPERTROPHY: THE CARDIOMYOPATHY OF FRIEDREICH'S ATAXIA. E. R. Smith, C. S. Flemington,* L. P. Heffernan,* and V. E. Sangalang,* Halifax, Nova Scotia, Canada. *page 208A*
7. RIGHT VENTRICULAR AFTERLOAD MANIPULATION TO CONTROL SHUNT FLOW IN VENTRICULAR SEPTAL DEFECT: "INTERNAL BANDING" OF THE PULMONARY ARTERY. J. Babb,* R. Zelis, J. Waldhausen,** J. Pope,* D. Leaman,* M. Lotysh,* R. Shiroff,* and L. Levenson,* Hershey, Pennsylvania. *page 171A*
8. EXPERIMENTAL ACUTE CARDIAC TAMPONADE: II HEMODYNAMIC EFFECTS. H. S. Friedman, F. Lajam,* J. A. Gomes,* N. D. Marino,* Q. Zaman,* and J. Calderon,* New York, New York. *page 184A*

Solarium, Haddon Hall

7:00 P.M.

Stephen Goldfinger and Joseph Sapira, *Presiding*

1. EVALUATION OF A NEW EDUCATIONAL PROGRAM FOR HYPERTENSIVE PATIENTS. C. A. Kaunisto,* S. Connellan,* and A. J. Zweifler,** Ann Arbor, Michigan. *page 265A*
2. HYPERTENSION DETECTION AND CONTROL IN A RURAL KENTUCKY COMMUNITY. J. M. Kotchen and T. A. Kotchen, Lexington, Kentucky. *page 265A*
3. USE OF DYE CLEARANCE IN DETECTION OF HEPATOCELLULAR INJURY AMONG VINYL CHLORIDE WORKERS. P. Fortwengler* and C. H. Tamburro, Louisville, Kentucky. *page 264A*
4. EXPERIENCE WITH A DIAGNOSTIC ALGORITHM FOR ALVEOLAR DISEASE. R. Cordon,* A. Hudson,* D. Hurst, and K. H. Kilburn,** Columbia, Missouri. *page 264A*
5. THE USE OF PATIENT-REPORTED PROBLEM STATUS IN EVALUATING AMBULATORY CARE. A. I. Mushlin,* F. A. Appel,* J. T. Pozen,* A. G. Zauber,* and J. F. Koch* (Intr. by J. W. Williamson), Columbia, Maryland. *page 267A*
6. ADVERSE DRUG REACTIONS IN AN ACUTE-CARE TEACHING HOSPITAL. S. R. Kaplan and P. Calabresi,** Providence, Rhode Island. *page 265A*
7. THE MEDICAL AND ECONOMIC FEASIBILITY OF RURAL SATELLITE CLINICS OPERATED BY PHYSICIAN ASSISTANTS. R. F. Hill* and T. N. Lynn, Jr., Oklahoma City, Oklahoma. *page 265A*

Symposium

**“Periodic Health Screening:
Preventive Care, Health Maintenance,
Or a Waste of Time?”**

Moderators: John Noble and Thomas L. Delbanco

Participants:

1. THE EVOLUTION OF THE PERIODIC HEALTH EXAMINATION. John Noble, University of North Carolina, Chapel Hill, North Carolina.
2. EFFECTS OF ANNUAL MULTIPHASIC CHECK-UPS. Gary D. Friedman, Loring G. Dales, and Morris F. Collen, Permanente Medical Group, Oakland, California.
3. COST BENEFIT OF INDIVIDUAL PARTS OF THE HISTORY AND PHYSICAL EXAMINATION. Sheldon Greenfield, UCLA, Los Angeles, California.
4. A CRITICAL ANALYSIS OF THE DOCTOR-WELL PATIENT RELATIONSHIP. Samuel M. Putnam, University of North Carolina, Chapel Hill, North Carolina.
5. UNANSWERED QUESTIONS ABOUT THE PERIODIC HEALTH EXAMINATION. Walter O. Spitzer, McMaster University Medical Center, Hamilton, Ontario.

Endocrinology I

Rutland Room, Haddon Hall

7:00 P.M.

William McGuire and Ronald Swerdloff, *Presiding*

1. INTERCELLULAR TRANSFER OF A SPECIFIC INTERMEDIATE IN STEROID HORMONE ACTION. L. Chan,* P. O. Kohler, and B. W. O'Malley, Houston, Texas. *page 234A*
2. SERUM LUTEINIZING HORMONE AND FOLLICLE STIMULATING HORMONE RESPONSES TO THE REPETITIVE ADMINIS-

TRATION OF GONADOTROPIN-RELEASING HORMONE. P. J. Snyder, J. F. Reitano,* R. Caminos-Torres,* and R. D. Utiger, Philadelphia, Pennsylvania. *page 242A*

3. BLOCKADE OF THE PRE-OVULATORY SURGE IN HAMSTERS BY AN INHIBITORY ANALOG OF LUTEINIZING HORMONE-RELEASING HORMONE. A. de la Cruz, D. H. Coy,* and A. V. Schally,* New Orleans, Louisiana. *page 235A*

4. POSITIVE TESTICULAR IMMUNOFLUORESCENCE IN IDIOPATHIC OLIGOSPERMIC MEN. H. R. Nankin, B. S. Rabin,* and P. Troen,** Pittsburgh, Pennsylvania. *page 240A*
5. RADIORECEPTOR-INACTIVE HUMAN GROWTH HORMONE IS ASSOCIATED WITH STIMULATED SECRETION IN NORMAL SUBJECTS. D. S. Sneid,* L. S. Jacobs, R. Trivedi,* and W. H. Daughaday,** St. Louis, Missouri. *page 242A*
6. ACUTE AND CHRONIC ESTROGEN EFFECTS UPON SERUM SOMATOMEDIN ACTIVITY, GROWTH HORMONE AND PROLACTIN IN MAN. E. Wiedemann, E. Schwartz,** and A. G. Frantz,** Bronx and New York, New York. *page 244A*
7. DEMONSTRATION OF FOUR FORMS OF PITUITARY AND CIRCULATING GROWTH HORMONE IN MAN. R. C. Dimond* and S. W. Rosen,** Washington, D.C., and Bethesda, Maryland. *page 235A*
8. HUMAN α -LACTALBUMIN BY RADIOIMMUNOASSAY: SERUM AND ORGAN CULTURE MEASUREMENTS. D. L. Kleinberg and J. Todd,* New York, New York. *page 238A*

Symposium

"Target Cell Receptors for Peptide Hormones: Regulation of Receptor Populations *In Vivo* and *In Vitro*"

Moderator: Jesse Roth

Participants:

1. INSULIN RECEPTORS IN OBESITY AND OTHER STATES OF ALTERED SENSITIVITY TO INSULIN. C. Ronald Kahn, National Institutes of Health, Bethesda, Maryland.
2. REGULATION OF INSULIN AND GROWTH HORMONE RECEPTORS IN HUMAN CELLS IN CULTURE. Jesse Roth, National Institutes of Health, Bethesda, Maryland.
3. REGULATION OF GROWTH HORMONE AND PROLACTIN RECEPTORS *IN VIVO*. Barry Posner, McGill University, Montreal, Quebec.
4. FOLLICLE STIMULATING HORMONE AND HUMAN CHORIONIC GONADOTROPHIN RECEPTORS IN OVARIAN CELLS DURING FOLLICULAR DEVELOPMENT. Anthony J. Zeleznik, University of Michigan, Ann Arbor, Michigan.

Gastroenterology I

Pennsylvania Room II, Haddon Hall

7:00 P.M.

Raj K. Goyal and Michael D. Levitt, *Presiding*

1. MECHANISM OF ESOPHAGITIS-INDUCED LOWER ESOPHAGEAL SPHINCTER HYPOTENSION. R. H. Higgs,* D. O. Castell, and G. L. Eastwood, Philadelphia, Pennsylvania, and West Roxbury, Massachusetts. *page 250A*
2. EFFECT OF BETHANECOL ON GASTRO-ESOPHAGEAL REFLUX. K. P. Ganeshappa,* W. N. Miller,* W. J. Dodds, W. J. Hogan,** R. C. Arndorfer,* and J. J. Stef,* Wood and Milwaukee, Wisconsin. *page 249A*
3. NATURE OF THE VAGAL INHIBITORY INNERVATION TO THE LOWER ESOPHAGEAL SPHINCTER. R. K. Goyal and S. Rattan, Dallas, Texas. *page 249A*
4. BIOLOGICAL ACTIVITY AND CLEARANCE OF HUMAN BIG GASTRIN IN MAN. J. H. Walsh, V. Maxwell,* and J. I. Isenberg, Los Angeles, California. *page 259A*
5. THE CONCENTRATION OF GASTRIN IN PREPYLORIC GASTRIC MUCOSA: ITS RELATION TO GASTRIN RELEASE AND MAXIMAL ACID OUTPUT. W. Hughes, N. Snyder,* and A. Hernandez,* Galveston, Texas. *page 251A*

6. STIMULATION OF GASTRIC INHIBITORY POLYPEPTIDE AND INSULIN BY INTRADUODENAL AMINO ACIDS. F. B. Thomas, S. Cataland,* S. E. Crockett,* H. S. Mekhjian, and E. L. Mazzaferri, Columbus, Ohio. *page 258A*
7. "BIG" SECRETIN. G. Boden, N. S. Murthy,* and E. Silver,* Philadelphia, Pennsylvania. *page 245A*
8. HYPERSECRETINEMIA ASSOCIATED WITH RENAL FAILURE. R. A. Rhodes,* W. Y. Chey,** H. H. Tai,* and H. Tabechian,** Rochester, New York. *page 255A*
9. EFFECTS OF GLUCAGON AND SECRETIN ON FOOD OR MORPHINE-INDUCED MOTOR ACTIVITY OF THE DISTAL COLON, RECTUM AND ANAL SPHINCTER. A. R. Chowdhury* and S. H. Lorber,** Philadelphia, Pennsylvania. *page 247A*
10. DIFFERENTIAL MYOELECTRIC AND MOTOR RESPONSES OF THE HUMAN COLON TO NEUROHUMORAL AGENTS. W. J. Snape,* G. M. Carlson,* and S. Cohen, Philadelphia, Pennsylvania. *page 257A*

Hematology I

Windsor Room, Haddon Hall

7:00 P.M.

Walter Fried and Earl Metz, *Presiding*

1. THE KINETICS OF THE PREAGGREGATION PHASE OF SICKLING WITHIN RED CELLS. M. J. Messer, J. A. Hahn,* and T. B. Bradley,** San Francisco, California. *page 279A*
2. ROLE OF HEMIN-CONTROLLED REPRESSOR IN HYPOCHROMIC ANEMIAS. M. L. Freedman, F. J. Forte,* and J. Rosman,* New York, New York. *page 272A*
3. ROLE OF COMPLEMENT IN COLD AGGLUTININ DISEASE. C. J. Jaffe,* J. P. Atkinson, and M. M. Frank, Bethesda, Maryland. *page 276A*
4. PROTEIN MEDIATED UPTAKE OF VITAMIN B-12 BY ISOLATED RAT LIVER MITOCHONDRIA. R. A. Gams, Birmingham, Alabama. *page 273A*
5. RADIOIMMUNOASSAY FOR MYELOMA IDIOTYPE. J. Ricks,* J. D. Robinson,* D. H. Sachs,* and W. D. Terry,** Bethesda, Maryland. *page 281A*
6. NULL PERIPHERAL BLOOD LYMPHOCYTES IN SYSTEMIC LUPUS ERYTHEMATOSUS. M. A. Scheinberg, E. S. Cathcart,** and A. L. Goldstein,* Boston, Massachusetts, and Galveston, Texas. *page 282A*
7. THE ROLE OF SUPEROXIDE IN THE FUNCTIONAL ACTIVITY OF MONOCYTES. A. L. Sagone, Jr., G. W. King, A. F. LoBuglio, and E. N. Metz, Columbus, Ohio. *page 281A*
8. MANGANESE-DEPENDENT NADPH OXIDATION BY A PARTICULATE PREPARATION FROM GUINEA PIG GRANULOCYTES: AN ALTERNATIVE INTERPRETATION. J. T. Curnutte,* M. L. Karnovsky,* and B. M. Babior (Intr. by M. M. Kaplan), Boston, Massachusetts. *page 271A*

National Blood Club

9:00 P.M.

Windsor Room, Haddon Hall

"Hemostasis"

Participants:

1. PLATELET FUNCTION IN HEMOSTASIS AS ELUCIDATED BY QUALITATIVE PLATELET DISORDERS. Harvey Weiss, New York, New York.
2. BLOOD COAGULATION: AN INTEGRAL BIOCHEMICAL SYSTEM. Yale Nemerson, New Haven, Connecticut.
3. CONCLUDING REMARKS. Samuel Rapaport, La Jolla, California.

Immunology and Connective Tissue I

Pennsylvania Room I, Haddon Hall

7:00 P.M.

Jacques R. Caldwell and Andrew Kang, *Presiding*

1. LYMPHOCYTE INHIBITORY FACTOR PRODUCTION AS AN INDICATOR OF MIXED LYMPHOCYTE CULTURE REACTIVITY. K. C. Cochrum,* P. M. Hoffman,* B. L. Cullen,* F. O. Belzer,* O. A. Salvatierra,* and H. H. Fudenberg** (Intr. by D. W. Martin), San Francisco, California. *page 288A*
2. THE NEUTRAL PEPTIDE GENERATING SYSTEM OF MAN: INITIATION BY A NEUTROPHIL ECTOENZYME AND DUAL CONTROL BY NORMAL PLASMA PROTEINS. B. U. Wintroub,* W. G. Hendren,* E. J. Goetzl, and K. F. Austen,** Boston, Massachusetts. *page 299A*
3. EVIDENCE FOR THE PRESENCE OF COMPONENTS OF THE ALTERNATE (PROPERDIN) PATHWAY OF COMPLEMENT ACTIVATION IN RESPIRATORY SECRETIONS. J. Robertson,* J. Caldwell, R. Castle,* and R. Waldman, Gainesville, Florida. *page 295A*
4. HUMAN DEFICIENCY OF THE EIGHTH COMPONENT OF COMPLEMENT: LACK OF BACTERICIDAL ACTIVITY. B. H. Petersen,* J. A. Graham,* and G. F. Brooks, Indianapolis, Indiana. *page 295A*
5. COMPLEMENT MEDIATED RELEASE OF HISTAMINE FROM HUMAN BASOPHILS. J. A. Grant, E. Dupree,* and A. S. Goldman,* Galveston, Texas. *page 292A*

6. IDENTIFICATION OF HISTAMINE AS A CHEMOTACTIC FACTOR FOR HUMAN EOSINOPHILS. R. A. Clark,* J. I. Gallin,* and A. P. Kaplan, Bethesda, Maryland. *page 288A*
7. URATE INDUCED CHEMOTACTIC FACTOR: ISOLATION AND PARTIAL CHARACTERIZATION. I. Spilberg, A. Gallacher,* J. M. Mehta,* and B. Mandell,* St. Louis, Missouri. *page 298A*
8. DEPRESSION OF MONOCYTE CHEMOTAXIS BY NEOPLASMS. R. Snyderman, M. C. Pike,* L. Meadows,* G. Hemstreet,* and S. Wells,* Durham, North Carolina. *page 297A*
9. INHIBITION OF PLASMA CELL FORMATION BY LEUKOCYTES FROM HYPOGAMMAGLOBULINEMIC PATIENTS. F. P. Siegal* and M. Siegal* (Intr. by R. A. Good**), New York, New York. *page 297A*
10. SUPPRESSION OF AMYLOID DISEASE IN THE MOUSE BY THYMOSIN TREATMENT. M. Scheinberg, E. S. Cathcart,** and A. L. Goldstein,* Boston, Massachusetts, and Galveston, Texas. *page 296A*

Infectious Disease I

Pennsylvania Room III, Haddon Hall

7:00 P.M.

Maurice Mufson and William Schaffner, *Presiding*

1. *IN VITRO* STUDIES OF HUMAN T AND B LYMPHOCYTES IN INFLUENZA. M. A. Scheinberg, N. R. Blacklow, T. A. Parrino,* F. B. Rose,* and E. S. Cathcart,** Boston, Massachusetts. *page 311A*
2. ROLE OF KUPFFER CELLS IN EXPERIMENTAL STAPHYLOCOCCAL FEVER. F. Haeseler* and P. Bodel, New Haven, Connecticut. *page 305A*
3. THE EOSINOPENIA OF ACUTE INFECTION: REPRODUCTION BY PASSIVE TRANSFER OF A MATERIAL IN INFLAMMATORY EXUDATE. D. A. Bass* (Intr. by J. P. Sanford), Oxford, England. *page 301A*
4. COMBINED PRE-IMMUNIZATION AND GRANULOCYTE TRANSFUSION THERAPY FOR TREATMENT OF PSEUDOMONAS SEPTICEMIA IN NEUTROPENIC DOGS. L. Harvath,* B. R. Andersen,** A. R. Zander,* and R. B. Epstein,* Chicago, Illinois. *page 305A*
5. IS THERE NEUTROPHIL DYSFUNCTION IN GRAM-NEGATIVE SEPTICEMIA? R. J. Weinstein* and L. S. Young, Los Angeles, California. *page 313A*
6. *IN VIVO* ANTAGONISM BETWEEN GENTAMICIN AND CHLORAMPHENICOL IN RABBITS WITH GRAM-NEGATIVE MENINGITIS. L. J. Strausbaugh,* C. D. Mandaleris, R. J. Sherertz, and M. A. Sande, Charlottesville, Virginia. *page 312A*
7. MEMBRANE BINDING AND ACTIVE UPTAKE OF SHIGELLA TOXIN. G. Keusch and M. Jacewicz,* New York, New York. *page 306A*
8. MECHANISM OF SPLENIC HYPERTROPHY IN MALARIA. D. J. Wyler* and J. I. Gallin, Bethesda, Maryland. *page 313A*

Symposium

“Microbial Contamination of Commercially Distributed Pharmacologic Agents and Medical Devices”

Moderator: William Schaffner

Participants:

1. THE PROBLEM FROM A NATIONAL PERSPECTIVE. Richard E. Dixon, Bureau of Epidemiology, Center for Disease Control, Atlanta, Georgia.
2. THE PROBLEM AS SEEN BY A HOSPITAL EPIDEMIOLOGIST: A VIEW FROM THE FRONT LINES. William Schaffner, Vanderbilt University, Nashville, Tennessee.
3. A PHYSICIAN LOOKS AT THE FDA RECALL SYSTEM. Maurice E. Shils, Cornell University, New York, New York.
4. SOLUTION SEARCHING FOR SOLUTION PROBLEMS: PROCEEDINGS OF THE NATIONAL COORDINATING COMMITTEE ON LARGE VOLUME PARENTERALS. Richard J. Duma, Medical College of Virginia, Richmond, Virginia.

Vernon Room, Haddon Hall

7:00 P.M.

Philip Felig and George Steiner, *Presiding*

1. CYTOLOGICAL AND ENZYMOLOGICAL CHARACTERIZATION OF AN ADIPOCYTE PRECURSOR POOL FOUND IN ADULT MAN. R. L. Van,* C. E. Bayliss,* and D. A. K. Roncari, Toronto, Ontario, Canada. *page 334A*
2. EFFECTS OF DIETARY COMPOSITION ON INSULIN BINDING AND THE METABOLIC RESPONSE TO INSULIN IN ISOLATED RAT ADIPOSE CELLS. S. W. Cushman and L. B. Salans, Hanover, New Hampshire. *page 317A*
3. PRIMARY TYPE V HYPERLIPOPROTEINEMIA. B. Greenberg,* W. Blackwelder,* and R. I. Levy, Bethesda, Maryland. *page 321A*
4. THE EFFECT OF EXPERIMENTAL POTASSIUM DEFICIENCY ON CARBOHYDRATE METABOLISM IN MAN: QUANTIFICATION OF A DEFECT IN BETA CELL SENSITIVITY TO GLUCOSE. J. W. Rowe, J. D. Tobin, and R. Andres,** Baltimore, Maryland. *page 330A*
5. URINARY C-PEPTIDE: A MEASURE OF BETA-CELL SECRETORY FUNCTION. D. L. Horwitz, A. Cruz,* A. I. Katz,** and A. H. Rubenstein, Chicago, Illinois. *page 323A*
6. EVIDENCE FOR A HEPATIC RECEPTOR SPECIFIC FOR A FORM OF "BIG" HUMAN GROWTH HORMONE. V. Soman* and A. D. Goodman, Albany, New York. *page 333A*
7. THE SERUM HALF-LIFE OF SOMATOMEDIN: DEPENDENCE UPON GROWTH HORMONE STIMULATION. K. L. Cohen* and S. P. Nissley, Bethesda, Maryland. *page 317A*
8. MUSCLE NITROGEN METABOLISM IN LAENNEC'S CIRRHOSIS. O. P. Ganda* and N. B. Ruderman, Boston, Massachusetts. *page 320A*
9. SPONTANEOUS LACTIC ACIDOSIS: EFFECTS OF THERAPY IN AN EXPERIMENTAL MODEL. A. I. Arieff and A. Kerian,* San Francisco, California. *page 314A*
10. REGULATION OF PROLINE BIOSYNTHESIS: CHANGES IN SENSITIVITY OF PYRROLINE CARBOXYLATE REDUCTASE TO FEEDBACK INHIBITION. J. M. Phang, D. Valle,* R. M. Blaese, and E. M. Kowaloff,* Bethesda, Maryland. *page 327A*

Oncology

Garden Room, Haddon Hall

7:00 P.M.

Sydney Salmon and Rainer F. Storb, *Presiding*

1. ANTI ANTIBODIES IN MALIGNANCY. D. Hartmann* and M. G. Lewis, Montreal, Quebec, Canada. *page 339A*
2. ANTI-RIBONUCLEIC ACID, ANTI-RIBOSOME ANTIBODIES IN MYELOMA AND WALDENSTROM'S MACROGLOBULINEMIA. V. Balazs and M. M. Frohlich, Leiden, The Netherlands. *page 336A*
3. PHASE I TRIAL OF INTRALESIONAL *CORYNEBACTERIUM PARVUM*. W. F. Cunningham-Rundles,* Y. Hirshaut, C. M. Pinsky, and H. F. Oettgen, New York, New York. *page 337A*
4. PHENOBARBITAL INHIBITS CYCLOPHOSPHAMIDE ANTITUMOR ACTIVITY. D. S. Alberts* and T. V. D. Wetters* (Intr. by L. B. Sheiner), San Francisco, California. *page 335A*
5. RADIOISOTOPIC MONITORING OF INTRA-THETAL METHOTREXATE THERAPY. P. T. Kirchner,* H. R. Adams,* R. A. Cahill,* D. Gilbert,* and J. Duley* (Intr. by J. C. Babka), Bethesda, Maryland. *page 340A*
6. HYDROXYETHYL STARCH AND PREDNISONE AS ADJUNCTS TO GRANULOCYTE COLLECTION. J. D. Bearden, III,* G. A. Ratkin,* and C. A. Coltman, Jr.,** San Antonio, Texas. *page 336A*
7. T AND B CELL MARKERS ON LYMPHOBLASTS IN ACUTE LYMPHOBLASTIC LEUKEMIA IN CHILDREN. I. Tsukimoto,* B. C. Lampkin, and K. Y. Wong,* Cincinnati, Ohio. *page 344A*
8. REMISSIONS IN REFRACTORY ANEMIA OF "SMOULDERING" OR PRELEUKEMIA INDUCED BY IMMUNOSUPPRESSION AND DETECTED BY BONE MARROW CULTURE. K. K. Hussein,* S. W. Eubanks,* M. J. Griffin,* and J. W. Hampton,** Oklahoma City, Oklahoma. *page 340A*

Pulmonary I

Teakwood Room, LaFayette Hotel

7:00 P.M.

Carroll Cross and Donald C. Zavala, *Presiding*

1. SERUM ANGIOTENSIN CONVERTING ENZYME IN SARCOIDOSIS. E. Silverstein,** J. Friedland,* H. Lyons,** and M. Kitt,* Brooklyn, New York.
page 352A
2. DIFFERENCES BETWEEN SUCCESSIVE PARTIAL EXPIRATORY FLOW VOLUME CURVES. J. J. Wellman,* R. Brown,* R. H. Ingram, E. R. McFadden, and J. Mead,* Boston, Massachusetts.
page 353A
3. EFFECT OF INCREASED ELASTIC RECOIL PRESSURE ON CLOSING VOLUME. F. J. Al Bazzaz and R. V. Lourenco,** Chicago, Illinois.
page 345A
4. BIOLOGICALLY ACTIVE POLYPEPTIDES FROM NORMAL LUNG. S. I. Said,** V. Mutt,* T. Yoshida,* and N. Hara,* Dallas, Texas, and Stockholm, Sweden.
page 351A
5. EFFECT OF LIDOCAINE ON TRACHEALIS SMOOTH MUSCLE, *IN VITRO*. E. B. Weiss,** W. H. Anderson,* and K. P. O'Brien,* Worcester, Massachusetts.
page 353A
6. EFFICACY OF INHALED TRIAMCINOLONE ACETONIDE VS. PLACEBO IN STEROID-DEPENDENT ASTHMATIC PATIENTS. S. L. Spector and R. S. Farr,** Denver, Colorado.
page 352A

7. STUDY ON COCKROACH ANTIGEN AS A CAUSE OF BRONCHIAL ASTHMA. B. Kang and D. Velody,* Chicago, Illinois.
page 348A
8. HISTAMINE AND COMPLEMENT CHANGES IN PLASMA DURING PROVOKED BRONCHOSPASM IN ASTHMATIC PATIENTS. K.N. Bhat,* C. M. Arroyave,* S. R. Marney,* D. D. Stevenson,* J. H. Vaughan,** and E. M. Tan,** La Jolla, California, and Nashville, Tennessee.
page 345A

Symposium

"Acute Bronchial Asthma"

Moderator: Roland H. Ingram, Jr.

Participants:

1. ROLES OF PRIMARY AND SECONDARY MEDIATORS IN ACUTE BRONCHIAL ASTHMA. K. Frank Austen, Harvard Medical School, Boston, Massachusetts.
2. PATHOPHYSIOLOGY OF ACUTE BRONCHIAL ASTHMA IN ANIMALS. Warren M. Gold, University of California, San Francisco, California.
3. PATHOPHYSIOLOGY OF ACUTE BRONCHIAL ASTHMA FOLLOWING EXERCISE. E. R. McFadden, Jr., Harvard Medical School, Boston, Massachusetts.

Renal and Electrolyte I

Viking Room, Haddon Hall

7:00 P.M.

Robert W. Schrier and Jay Stein, *Presiding*

1. EVIDENCE THAT PROXIMAL TUBULE FLUID REABSORPTION IS HIGHLY PLASMA-FLOW DEPENDENT AT LOW POSTGLOMERULAR PLASMA FLOW RATES. B. D. Myers,* W. M. Deen,* J. L. Troy,* and B. M. Brenner, San Francisco, California.
page 370A
2. TUBULAR EFFECTS OF ACUTE METABOLIC ACIDOSIS. J. W. Dubb,* M. Goldberg,** and Z. S. Agus, Philadelphia, Pennsylvania.
page 361A
3. ROLE OF CARBONIC ANHYDRASE IN RENAL CORTEX ON INHIBITION OF TUBULAR REABSORPTION OF BICARBONATE IN SALINE-INFUSED AND ALBUMIN-INFUSED RATS. S. W. Reed, B. B. Davis, and N. Beck, Pittsburgh, Pennsylvania.
page 371A

4. CHANGES IN RENAL BLOOD FLOW FILTRATION AND TUBULAR FUNCTION DURING "URINE REINFUSION NATRIURESIS." R. H. Harris, Durham, North Carolina.
page 364A
5. ACUTE HYPERGLYCEMIA: DIFFERENTIAL EFFECTS ON PROXIMAL AND DISTAL TUBULAR TRANSPORT. R. A. DeFronzo, M. Goldberg,** and Z. S. Agus, Philadelphia, Pennsylvania.
page 359A
6. EFFECT OF EXTRACELLULAR VOLUME EXPANSION ON TUBULAR REABSORPTION OF GLUCOSE: A MICROINJECTION STUDY. S. Boonjarern, M. E. Laski,* P. J. Madej,* and N. A. Kurtzman, Chicago, Illinois.
page 356A

7. POTASSIUM SECRETION IN THE DESCENDING LIMB OF THE JUXTAMEDULLARY NEPHRON. F. B. Lacy, J. P. Pennell, and R. L. Jamison,** Stanford, California. page 367A
8. CRITICAL ROLE OF THE RENAL PAPILLA IN POTASSIUM ADAPTATION: EFFECT OF PAPILLECTOMY IN THE ISOLATED PERFUSED KIDNEY. P. Silva and F. H. Epstein,** Boston, Massachusetts. page 374A
9. ROLE OF THE MEDULLARY COLLECTING DUCTS IN POST-OBSTRUCTIVE DIURESIS. D. R. Wilson and H. Sonnenberg,* Toronto, Canada. page 377A
10. FAILURE OF OBLITERATION OF DYSEQUILIBRIUM pH IN DISTAL NEPHRON TO INCREASE BICARBONATE REABSORPTION. B. J. Stinebaugh,** E. Ghafary,* M. B. Goldstein, M. L. Halperin, F. X. Schloeder,** and W. N. Suki, Houston, Texas, and Toronto, Ontario, Canada. page 375A

Renal and Electrolyte II

West Room, Haddon Hall

7:00 P.M.

Gary Eknayan and Murray Levin, *Presiding*

1. ACCELERATED PHOSPHORUS REABSORPTION DURING PHOSPHORUS DEPLETION. T. H. Steele and H. F. DeLuca,* Madison, Wisconsin. page 375A
2. TUBULAR REABSORPTION OF PHOSPHATE DURING ACUTE PHOSPHATE INFUSION. J. H. Dirks, C. A. Harris,* and G. Quamme,* Montreal, Quebec, Canada. page 360A
3. EFFECTS OF PARATHYROID HORMONE ON PHOSPHATE AND FLUID TRANSPORT IN THE ISOLATED PROXIMAL TUBULE. P. B. Woodhall,* V. W. Dennis,* and R. R. Robinson,** Durham, North Carolina. page 378A
4. EFFECT OF PHYSIOLOGIC DOSES OF SYNTHETIC BOVINE PARATHYROID HORMONE ON SEGMENTAL PHOSPHATE REABSORPTION. F. Knox, J. Haas,* and C. Lechene,* Rochester, Minnesota, and Boston, Massachusetts. page 367A
5. STIMULATION BY ACIDOSIS OF A NEW RENAL AMMONIAGENIC PATHWAY. N. Kopyt* and R. G. Narins, Philadelphia, Pennsylvania. page 367A
6. EFFECT OF IMIDAZOLE ON RENAL GLUCONEOGENESIS. A. C. Schoolwerth, H. Rodriguez, and S. Klahr, St. Louis, Missouri, and Hershey, Pennsylvania. page 373A
7. EFFECT OF pH ON RENAL MITOCHONDRIAL NH₃ FORMATION. R. L. Tannen and A. S. Kunin,** Burlington, Vermont. page 376A
8. ACUTE URIC ACID NEPHROPATHY IN RATS. H. W. Spencer,* W. E. Yarger, and R. R. Robinson, Durham, North Carolina. page 375A
9. CARDIAC FUNCTION AND SODIUM EXCRETION. S. Migdal,* E. A. Alexander, and N. G. Levinsky,** Boston, Massachusetts. page 369A
10. SODIUM RETENTION AND KIDNEY FUNCTION IN DOGS WITH EXPERIMENTAL, PORTAL CIRRHOSIS. M. Levy, Montreal, Quebec, Canada. page 368A

Program—Subspecialty Meetings

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Chalfonte-Haddon Hall, LaFayette Hotel, and Ramada Inn

Atlantic City, New Jersey

SUNDAY AFTERNOON, MAY 4, 1975

Cardiovascular, *Pennsylvania Room II, Haddon Hall*

Clinical Epidemiology and Health Care Research, *Solarium, Haddon Hall*

Clinical Pharmacology, *Ramada Inn*

Dermatology, *Teakwood Room, LaFayette*

Endocrinology, *Pennsylvania Room III, Haddon Hall*

Gastroenterology, *Vernon Room, Haddon Hall*

Genetics, *Garden Room, Haddon Hall*

Hematology, *Windsor Room, Haddon Hall*

Immunology, and Connective Tissue, *Rutland Room, Haddon Hall*

Infectious Disease, *Viking Room, Haddon Hall*

Metabolism, *Pennsylvania Room I, Haddon Hall*

Oncology, *West Room, Haddon Hall*

Pulmonary, *Music Room, Chalfonte*

Renal and Electrolyte, *Carolina Room, Chalfonte*

Cardiovascular

Pennsylvania Room II, Haddon Hall

1:30 P.M.

Stephen Epstein and Burton Sobel, *Presiding*

1. EXTERNAL DETECTION OF ALTERED METABOLISM OF ^{11}C -LABELED SUBSTRATES IN ISCHEMIC MYOCARDIUM. E. S. Weiss,* E. J. Hoffman,* M. E. Phelps,* M. J. Welch,* M. M. Ter-Pogossian,* and B. E. Sobel, St. Louis, Missouri.

ASCI page 383A

2. NITROGLYCERIN AND NITROGLYCERIN/PHENYLEPHRINE-INDUCED REDUCTION IN ISCHEMIA DURING ACUTE MYOCARDIAL INFARCTION IN MAN. J. S. Borer, D. R. Redwood, B. Levitt,* H. Reicher-Reiss,* C. Bianchi,* H. Val-lin,* and S. E. Epstein, Bethesda, Maryland.

AFCR page 173A

3. REVERSAL OF THE BENEFICIAL EFFECTS OF INTRAVENOUS NITROGLYCERIN IN PATIENTS WITH ACUTE MYOCARDIAL INFARCTION BY PHENYLEPHRINE. P. Come,* J. Flaherty,* M. Weisfeldt, L. Greene,* L. Becker,* and B. Pitt, Baltimore, Maryland.

AFCR page 177A

4. EFFECT OF GLUCOSE-INSULIN-POTASSIUM INFUSION ON HOSPITAL MORTALITY OF ACUTE MYOCARDIAL INFARCTION. A. W. Stanley, Jr.,* J. B. Breinig,* W. J. Rogers,* J. W. Prather,* H. G. McDaniel, R. E. Moraski, J. A. Mantle, R. O. Russell, Jr.,** and C. E. Rackley,** Birmingham, Alabama.

AFCR page 209A

5. FACTORS AFFECTING DISAPPEARANCE OF CREATINE PHOSPHOKINASE FROM THE CIRCULATION. R. Roberts and B. E. Sobel, St. Louis, Missouri.

AFCR page 205A

6. AN EIGHT-HOUR SCREENING TEST FOR REMEDIABLE HYPERTENSION. J. M. Freiberg,* G. H. Anderson,* T. G. Dalakos, and D. H. P. Streeten,** Syracuse, New York. *AFCR page 183A*
7. LOW PLASMA RENIN ACTIVITY IN NORMOTENSIVE SUBJECTS. R. H. Noth,* M. N. Lassman,* S. Y. Tan, A. Fernandez-Cruz, Jr.,* and P. J. Mulrow,** New Haven, Connecticut, and Philadelphia, Pennsylvania. *AFCR page 199A*
8. EFFECTS OF ALTERED AUTONOMIC INNERVATION OF THE HEART ON VENTRICULAR ELECTRICAL STABILITY IN CHRONIC HEART FAILURE. K. M. Kent, D. M. Jacobowitz,* and S. E. Epstein, Bethesda, Maryland. *AFCR page 189A*
9. ECHOCARDIOGRAPHIC EVALUATION OF THE INTRAVENTRICULAR SEPTAL MOTION DURING PRE-EXCITATION AND NORMAL CONDUCTION IN WOLFF-PARKINSON-WHITE SYNDROME. A. R. Ticzon,* A. N. Damato,** A. R. Caracta, G. Russo,* J. R. Foster,* and S. H. Lau,** Staten Island, New York. *AFCR page 210A*
10. DEMONSTRATION OF DUAL A-V NODAL PATHWAYS UTILIZING A VENTRICULAR EXTRASTIMULUS IN PATIENTS WITH A-V NODAL RE-ENTRANT PAROXYSMAL SUPRAVENTRICULAR TACHYCARDIA. D. Wu, P. Denes,* C. Wyndham,* F. Amat y Leon,* R. C. Dhingra and K. M. Rosen, Chicago, Illinois. *AFCR page 215A*
11. VAGAL AND ADRENERGIC INTERACTIONS AND VENTRICULAR ELECTRICAL STABILITY. R. L. Verrier,* S. H. Rabinowitz,* and B. Lown,** Boston, Massachusetts. *AFCR page 212A*
12. CYCLIC GUANINE MONOPHOSPHATE ANTAGONISM OF THE INOTROPIC EFFECTS OF DRUGS WHICH INCREASE MYOCARDIAL LEVELS OF CYCLIC ADENOSINE MONOPHOSPHATE. A. M. Watanabe and H. R. Besch, Jr., Indianapolis, Indiana. *AFCR page 213A*
13. PLATELET AGGREGATION PRODUCED BY STENOSIS IN DOG CORONARY ARTERIES. J. D. Folts, J. J. Lalich,* E. B. Crowell, and G. G. Rowe,** Madison, Wisconsin. *AFCR page 183A*

Clinical Epidemiology and Health Care Research

Solarium, Haddon Hall

1:30 P.M.

Gerald T. Perkoff and Graham H. Jeffries, *Presiding*

1. THE COST-EFFECTIVENESS OF ACUTE RHEUMATIC FEVER PREVENTION. R. K. Tompkins,* D. C. Burnes,* and W. E. Cable* (Intr. by T. P. Almy), Hanover, New Hampshire. *AAP page 441A*
2. COST OF MEDICAL CARE IN AN EXPERIMENTAL STUDY OF PREPAID GROUP AND FEE-FOR-SERVICE PRACTICE. G. T. Perkoff,** L. Kahn, and P. J. Haas, St. Louis, Missouri. *AAP page 441A*
3. BENEFIT-COST ANALYSIS OF RUBELLA VACCINATION POLICY. S. C. Schoenbaum, J. N. Hyde,* L. Bartoshesky,* and K. Crampton,* Boston, Massachusetts. *AFCR page 267A*
4. COMPARISON OF CERTAIN SURGICAL RATES BEFORE AND AFTER THE INTRODUCTION OF MEDICARE IN QUEBEC. J. R. Hoey* and A. D. McDonald* (Intr. by H. M. Scott) Montreal, Quebec, Canada. *AFCR page 217A*
5. ANALYSIS OF VOLUNTARY AND MANDATORY PRESURGICAL SCREENING PROGRAMS. E. G. McCarthy and A. S. Kamons,* New York, New York. *AFCR page 266A*
6. EVALUATING ACCESS TO AMBULATORY CARE. A. I. Mushlin,* F. A. Appel,* and P. L. LeBrun,* (Intr. by J. W. Williamson), Columbia, Maryland. *AFCR page 267A*
7. IMPACT OF MIDDLELEVEL HEALTH PRACTITIONERS ON PRIMARY CARE IN A HEALTH MAINTENANCE ORGANIZATION. D. M. Levine,* L. L. Morlock,* A. I. Mushlin,* and S. Shapiro* (Intr. by M. L. Peterson), Baltimore, Maryland. *AFCR page 266A*
8. CHANGES IN PATIENT CARE BY A RECORD SUMMARY SYSTEM. O. M. Haring,** F. S. Lennie,* R. Chalice,* and R. Thorsen,* Chicago, Illinois. *AFCR page 265A*
9. A COMPUTERIZED PRENATAL RECORD. D. R. Studney,* A. Gorbach,* S. Guenther,* M. Morgan,* and G. O. Barnett,** Boston, Massachusetts. *AFCR page 267A*
10. THE PROGNOSTIC IMPORTANCE OF CHRONOMETRY IN HODGKIN'S DISEASE. N. F. Boyd* and A. R. Feinstein,** Montreal, Quebec, and New Haven, Connecticut. *ASCI page 384A*
11. POTENTIAL PULMONARY TOXICITY FROM DRUGS USED IN THE MANAGEMENT OF ACUTE LUNG INJURY. B. Gillis,* R. Laguarda, W. Pereira,* and G. Huber, Boston, Massachusetts. *AFCR page 216A*
12. HEALTH HAZARDS OF POWER GENERATION. L. D. Hamilton* (Intr. by E. P. Cronkite**), Upton, New York. *AAP page 436A*
13. EVALUATION OF CLINICAL CRITERIA FOR CHRONIC CONGESTIVE HEART FAILURE. W. R. Harlan,** R. H. Grimm,* A. Oberman,* and R. A. Rosati,* Durham, North Carolina. *AFCR page 216A*

Ramada Inn

1:30 P.M.

Rubin Bressler and Henry Bourne, *Presiding*

1. ACIDIFICATION OF PLASMA BY THE RED CELL IN THE PRESENCE OF RADIOGRAPHIC CONTRAST MATERIALS: A POSSIBLE CAUSE OF ADVERSE EFFECTS ON THE HEART. M. A. Lichtman** and E. O. Lipchik, Rochester, New York. *AAP page 437A*
2. EFFECTS OF ORAL CONTRACEPTIVE AGENTS ON PLATELET FUNCTION. M. J. Reichgott and K. Engelman, Philadelphia, Pennsylvania. *AFCR page 223A*
3. PHARMACODYNAMICS OF A LONG-ACTING OPIATE ANTAGONIST IN MICE: MACRONALOXONE. S. C. March,* G. W. Pasternak,* S. H. Snyder, and P. Cuatrecasas, Baltimore, Maryland. *AFCR page 222A*
4. A NEW CLASS OF DRUG-CONJUGATES OF VASOACTIVE AMINES TO COMPLEX OR SIMPLE CARRIERS HAVE PHARMACOLOGIC ACTIVITY. Y. Weinstein,* T. Poon,* H. R. Bourne, and K. L. Melmon, San Francisco, California. *ASCI page 385A*
5. DOPAMINE TREATMENT OF SHOCK. W. L. Thompson, H. T. Gurley,* U. Krug,* I. A. Morris,* and L. McLouth,* Baltimore, Maryland, and Cleveland, Ohio. *AFCR page 224A*
6. A RADIOIMMUNOASSAY FOR COLCHICINE IN PLASMA AND URINE. J. C. Mittler,* N. H. Ertel, S. Akgun,* and S. L. Wallace,* East Orange and Newark, New Jersey, and Brooklyn, New York. *AFCR page 222A*
7. TREATMENT OF DRUG OVERDOSE WITH A FIXED BED OF CHARCOAL. A. Koffler,* J. Hill,* and B. H. Barbour,** Los Angeles, California, and Raleigh, North Carolina. *AFCR page 221A*
8. THE ACETYLTATION OF PROCAINAMIDE. IS PROCAINAMIDE N-ACETYLTRANSFERASE A TYPE I ENZYME? R. M. Stein,* E. G. V. Giardina,* J. T. Bigger, Jr., D. Ting,* and N. Kahn,* New York, New York. *ASCI page 385A*
9. ALTERATIONS OF INOSINIC ACID DEHYDROGENASE ACTIVITY IN PATIENTS RECEIVING MYCOPHENOLIC ACID FOR PSORIASIS. E. W. Holmes, W. H. Turner,* J. P. Tindall,* A. Leyva,* and W. N. Kelley. Durham, North Carolina. *AFCR page 220A*
10. THE EFFECT OF HYDANTOINS ON MITOSIS AND MICROTUBULES. A. MacKinney* and R. Vyas,* (Intr. by C. M. Kunin), Madison, Wisconsin. *ASCI page 384A*
11. THE BILIARY EXCRETION OF ³H-DIGOXIN IN MAN. J. H. Caldwell and C. T. Cline,* Columbus, Ohio. *AFCR page 219A*
12. DIFFERENTIAL LABELING OF ORIGINS OF URINARY CATECHOLAMINE METABOLITES BY DOPAMINE-C¹⁴. M. Ebert* and I. J. Kopin,** Bethesda, Maryland. *AAP page 437A*
13. INTENSIFICATION OF PULMONARY OXYGEN TOXICITY BY PROPHYLACTIC AND THERAPEUTIC STEROID ADMINISTRATION. W. Pereira,* F. Carr,* H. Benesova,* R. Laguarda, J. Mullane, and G. Huber, Boston, Massachusetts. *AFCR page 222A*

Dermatology

Teakwood Room, LaFayette Hotel

1:30 P.M.

William Epstein and Ruth K. Freinkel, *Presiding*

1. IMPORTANCE OF SALVAGE PATHWAYS IN DEOXYPYRIMIDINE NUCLEOTIDE SYNTHESIS IN SKIN. N. W. DeLapp* and M. A. Karasek, Stanford, California. *AFCR page 227A*
2. CHARACTERIZATION OF PROTEOLYTIC ENZYMES EXTRACTED FROM HUMAN SKIN. V. B. Hatcher, N. Levine,* and G. S. Lazarus, Bronx, New York. *AFCR page 229A*
3. DECREASED MATRIX PROTEIN IN AN AUTOSOMAL RECESSIVE SYNDROME WITH "BRITTLE" HAIR. H. P. Baden,** C. E. Jackson,** L. Lee,* L. Weiss,* and R. J. Gold,* Boston, Massachusetts; Detroit, Michigan; and Montreal, Quebec, Canada. *AFCR page 226A*
4. ε-(γ-GLUTAMYL) LYSINE CROSS-LINKING OF HUMAN EPIDERMAL FIBROUS PROTEINS. J. Abernathy* and L. Goldsmith, Durham, North Carolina. *AFCR page 226A*

5. INCREASED LEVELS OF FREE ARACHIDONATE, PROSTAGLANDIN E₂ AND F_{2α} AND 12 L-HYDROXY-5, 8, 10, 14-EICOSATETRAENOIC ACID IN UNINVOLVED VS. INVOLVED PSORIASIS EPIDERMIS: EVIDENCE FOR PERTURBED REGULATION OF FREE ARACHIDONATE LEVELS IN LESIONS. S. Hammarstrom,* M. Hamberg,* B. Samuelsson,* E. Duell,* M. Stawiski,* and J. Voorhees, Stockholm, Sweden, and Ann Arbor, Michigan. *AFCR page 228A*
6. PREFERENTIAL BINDING OF ⁶⁷GALLIUM BY MELANINS. M. Earle,* V. Hearing,* and G. P. Canellos, Bethesda, Maryland. *AFCR page 000*
7. DEFECTIVE MONOCYTE CHEMOTAXIS AND ZINC DEFICIENCY IN ACRODERMATITIS ENTEROPATHICA. J. C. Huff,* W. L. Weston, K. H. Neldner,* and K. M. Hambidge,* Denver, Colorado. *AFCR page 229A*
8. ANTIGEN-INDUCED EOSINOPHIL HEMOTACTIC FACTOR RELEASE BY HUMAN LEUKOCYTES. B. M. Czarnetzki and L. M. Lichtenstein,** Baltimore, Maryland. *AFCR page 227A*
9. DIFFERENTIATION BETWEEN B CELLS, T CELLS AND HISTIOCYTES IN MELANOCYTIC LESIONS. R. Edelson,* J. Dean,* V. Hearing,* M. Frank,* and I. Green* (Intr. by M. Lutzner), Bethesda, Maryland. *AFCR page 228A*
10. ASSOCIATION OF MIXED CONNECTIVE TISSUE DISEASE WITH IMMUNOGLOBULIN LOCALIZATION IN EPIDERMAL NUCLEI OF BIOPSIES FROM AREAS OF NORMAL SKIN. J. N. Gilliam, J. D. Smiley, and M. Ziff,** Dallas, Texas. *AFCR page 229A*
11. PRESENCE OF IMMUNE COMPLEXES IN PEMPHIGUS VULGARIS SERA AS DEMONSTRATED BY A Clq-BINDING ASSAY. G. Tappeiner,* K. G. Heine,* and R. E. Jordon, Rochester, Minnesota. *AFCR page 231A*
12. AUTOSENSITIZATION TO DEOXYRIBONUCLEIC ACID: EVIDENCE FOR PATHOGENESIS. J. L. Pinnas, E. M. Tan, R. L. Teplitz, and J. T. Boyer, Tucson, Arizona; La Jolla, California; and Los Angeles, California. *AFCR page 230A*
13. EXPERIMENTAL CUTANEOUS CANDIDA ALBICANS INFECTIONS IN RODENTS: ROLE OF COMPLEMENT. T. L. Ray and K. D. Wuepper, Portland, Oregon. *AFCR page 230A*

Endocrinology

Pennsylvania Room III, Haddon Hall
1:30 P.M.

David Orth and Constance S. Pittman, *Presiding*

1. THYROID RELEASING HORMONE EXCRETION AND METABOLISM IN MAN. I. M. D. Jackson, R. Gagel,* P. D. Papapetrou, D. Deprez,* and S. Reichlin,** Boston, Massachusetts. *AFCR page 238A*
2. REVERSIBLE IMPAIRMENT OF LUTEINIZING HORMONE RESPONSE TO GONADOTROPIN RELEASING HORMONE IN WOMEN WITH ANOREXIA NERVOSA. B. M. Sherman, K. A. Halmi,* and R. Zamudio,* Iowa City, Iowa. *AFCR page 242A*
3. IMMUNOREACTIVE SOMATOSTATIN IN HUMAN CEREBROSPINAL FLUID. Y. C. Patel,* K. Rao,* and S. Reichlin,** Boston, Massachusetts. *ASCI page 389A*
4. A MICROTECHNIQUE DEMONSTRATING BINDING OF GROWTH HORMONE TO HUMAN LIVER. D. Carr,* J. Chan,* I. M. Holdaway,* and H. G. Friesen, Winnipeg, Manitoba, Canada. *AFCR page 234A*
5. DIVERSION OF PERIPHERAL THYROXINE METABOLISM FROM ACTIVATING TO INACTIVATING PATHWAYS DURING COMPLETE FASTING. A. G. Vagenakis,* F. Azizi,* G. I. Portnay,* A. Burger,* P. Nicod,* M. Rudolph,* J. T. O'Brien,* R. A. Arky, S. H. Ingbar,** and L. E. Braverman, Boston, Massachusetts. *ASCI page 390A*
6. THYROIDAL SECRETION OF TRIIODOTHYRONINE: A PHYSIOLOGICALLY SIGNIFICANT SOURCE OF CIRCULATING HORMONE. Y. Imai,* K. Kataoka,* and C. S. Hollander, New York, New York. *AFCR page 238A*
7. CONTROL OF PLASMA ALDOSTERONE IN PRIMARY ALDOSTERONISM. M. Schambelan,* M. Hogan,* N. Brust,* and E. G. Biglieri,** San Francisco, California. *ASCI page 390A*
8. THE EFFECTS OF PREGNANCY AND ESTROGENS ON POSTURAL STIMULATION AND SALINE SUPPRESSION OF PLASMA RENIN ACTIVITY AND ALDOSTERONE. M. H. Weinberger, N. J. Kramer,* and L. P. Petersen, Indianapolis, Indiana. *AFCR page 244A*

9. "BIG" HUMAN PLACENTAL LACTOGEN: IDENTIFICATION, BIOLOGICAL ACTIVITY, AND STRUCTURE. A. B. Schneider,* K. Kowalski,* and L. M. Sherwood, Chicago, Illinois. *AFCR page 241A*
10. ADRENOCORTICAL ENZYME DEFICIENCIES IN IDIOPATHIC HIRSUTISM. S. R. Newmark,* R. G. Dluhy, G. H. Williams, P. Pochi,** and L. I. Rose, Boston, Massachusetts. *AFCR page 240A*
11. FURTHER ABNORMALITIES OF STEROIDOGENESIS IN 21-HYDROXYLASE DEFICIENCY. T. J. McKenna,* A. S. Jennings,* and I. M. Burr, Nashville, Tennessee. *AFCR page 239A*
12. PROGESTERONE RECEPTORS IN HUMAN BREAST CANCER. K. B. Horwitz* and W. L. McGuire, San Antonio, Texas. *AFCR page 237A*
13. ALTERED BLOOD ANDROGENS IN MEN WITH PROSTATE HYPERPLASIA. J. Barberia,* P. Hsieh,* M. Cosgrove,* and R. Horton,** Los Angeles, California. *AFCR page 233A*

Gastroenterology

Vernon Room, Haddon Hall

1:30 P.M.

Sidney Cohen and Jerry Trier, *Presiding*

1. ETHINYL ESTRADIOL: LONG-TERM EFFECTS ON BILE ACID METABOLISM IN THE BABOON. N. B. Javitt, D. Panveliwalla, and K. Morrissey (Intr. by R. Peterson**), New York, New York. *AAP page 439A*
2. THE NATURE OF THE DEFECT OF BILE ACID METABOLISM IN CHOLESTEROL CHOLELITHIASIS. W. J. Banfield and W. H. Admirand,** San Francisco, California. *AFCR page 245A*
3. CHOLESTEROL DISSOLUTION RATES IN BILE: ACCELERATING EFFECTS OF HIGH BILE SALT-LECITHIN RATIOS AND NaCl. M. C. Carey* and D. M. Small (Intr. by J. S. Trier), Boston, Massachusetts. *ASCI page 392A*
4. HEPATITIS B CORE AND SURFACE ANTIGENS, IMMUNOGLOBULINS, AND COMPLEMENT IN LIVER BIOPSIES: DETECTION BY DIRECT IMMUNOFLUORESCENCE. C. Trepo,* R. A. Schaefer,* L. Vitvitski,* and A. M. Prince* (Intr. by M. J. Kreek), New York, New York. *AFCR page 258A*
5. EFFECT OF PHENOBARBITAL AND ETHINYL ESTRADIOL ON SODIUM-POTASSIUM ADENOSINE TRIPHOSPHATASE AND OTHER LIVER PLASMA MEMBRANE ENZYMES. F. Simon and E. Sutherland,* Denver, Colorado. *AFCR page 257A*
6. OBSERVATIONS ON PLASMA SECRETIN LEVELS BY RADIOIMMUNOASSAY IN RESPONSE TO DUODENAL ACIDIFICATION AND TO A MEAT MEAL. R. A. Rhodes,* W. Y. Chey,** and H. H. Tai,* Rochester, New York. *AFCR page 255A*
7. ORIGIN AND CLINICAL ABERRATIONS OF SERUM ISOAMYLASES. M. D. Levitt, T. Berggren,* T. Miller,* and R. R. Engel,* Minneapolis, Minnesota. *ASCI page 394A*
8. EVIDENCE FOR SEPARATE HISTAMINE AND PROSTAGLANDIN SENSITIVE ADENYLATE CYCLASES IN GUINEA PIG GASTRIC MUCOSA. A. Wollin,* C. F. Code,** and T. P. Dousa, Rochester, Minnesota. *AFCR page 260A*
9. ANALYSIS OF RATE CONTROLLING PROCESSES IN POLYGLUTAMYL FOLATE ABSORPTION. J. B. Wagonfeld,* D. Dudzinski,* and I. H. Rosenberg, Chicago, Illinois. *AFCR page 259A*
10. INTESTINAL SURFACE HYDROLYSIS OF PEPTIDES. K. W. Smithson* and G. M. Gray, Stanford, California. *AFCR page 257A*
11. THE EFFECT OF CHOLERA TOXIN ON ILEAL MYOELECTRIC ACTIVITY: A POSSIBLE PROSTAGLANDIN MEDIATED RESPONSE. J. R. Mathias,* G. M. Carlson,* A. J. DiMarino,* G. Bertiger,* and S. Cohen, Philadelphia, Pennsylvania. *ASCI page 395A*
12. PROPRANOLOL INHIBITS CYCLIC ADENOSINE MONOPHOSPHATE AND BILE ACID-INDUCED COLONIC SECRETION. D. Conley,* G. Bonorris,* M. Coyne,* A. Chung,* and L. Schoenfield, Los Angeles, California. *ASCI page 392A*
13. INITIAL STEP IN THE ACTION OF VASOACTIVE INTESTINAL PEPTIDE: SPECIFIC BINDING TO PLASMA MEMBRANE RECEPTORS. J. Christophe,* T. P. Conlon,* and J. D. Gardner* (Intr. by R. S. Gordon, Jr.**), Bethesda, Maryland. *ASCI page 392A*

Genetics

Garden Room, Haddon Hall

1:30 P.M.

**Joseph Goldstein and George Stamatoyannopoulos,
Presiding**

1. VIRUS PROBE SHOWS MEMBRANE DEFECT IN I-CELL DISEASE. W. S. Sly, E. Lagwinska,* and S. Schlesinger,* St. Louis, Missouri.
ASCI page 399A
2. DEMONSTRATION OF DEFICIENT HEME SYNTHETASE ACTIVITY IN HUMAN PROTOPORPHYRIA. H. L. Bonkowsky, J. R. Bloomer, M. J. Mahoney,* and P. S. Ebert,* White River Junction, Vermont; New Haven, Connecticut; and Bethesda, Maryland.
AFCR page 261A
3. USE OF PURIFIED α and β COMPLEMENTARY DEOXYRIBONUCLEIC ACID TO MEASURE THE RELATIVE AMOUNTS OF HUMAN GLOBIN GENES AND GLOBIN MESSENGER RIBONUCLEIC ACID. C. Natta,* F. Ramirez,* G. Maniatis,* G. Bailey,* J. V. O'Donnell,* V. Canale,* P. A. Marks,** and A. Bank, New York, New York.
ASCI page 398A
4. AFFINITY ELECTROPHORESIS: A NEW PRINCIPLE FOR IDENTIFICATION OF ENZYME POLYMORPHISMS. R. Hirschhorn,* D. Swallow,* and H. Harris * (Intr. by J. Javid), New York, New York, and London, England.
ASCI page 398A
5. EVIDENCE THAT THE GENE FOR HYPOXANTHINE-GUANINE PHOSPHORIBOSYLTRANSFERASE CONTROLS THE CONCENTRATION OF THE ENZYME, PHOSPHORIBOSYLPYROPHOSPHATE SYNTHETASE. D. W. Martin, Jr., L. H. Graf, Jr., J. A. McRoberts, and T. M. Harrison, San Francisco, California.
AFCR page 263A
6. THE CONNECTIVE TISSUE DEFECT IN HOMOCYSTINURIA. R. C. Siegel* (Intr. by L. H. Smith, Jr.**), San Francisco, California. *AFCR page 263A*
7. PYRROLINE-5-CARBOXYLATE DEHYDROGENASE DEFICIENCY—THE GENETIC DEFECT IN TYPE II HYPERPROLINEMIA. D. Valle,* S. I. Goodman,* and J. M. Phang, Bethesda, Maryland, and Denver, Colorado. *AFCR page 263A*
8. HEAT-LABILE ENZYMES IN SKIN FIBROBLASTS CULTURED FROM SUBJECTS WITH PROGERIA. S. Goldstein* and E. Moerman* (Intr. by M. C. Brain**), Hamilton, Ontario.
ASCI page 398A
9. POLYMORPHISM OF HUMAN α -FUCOSIDASE. B. M. Turner,* V. S. Turner,* N. G. Beratis,* and K. Hirschhorn,** New York, New York.
AFCR page 263A
10. ALLELISM, NON-ALLELISM AND GENETIC COMPOUNDS IN FAMILIAL HYPERLIPOPROTEINEMIA. P. O. Kwiterovich,* C. Neill,* S. Margolis,** M. Thamer,* and P. Bachorik,* Baltimore, Maryland. *AFCR page 262A*
11. THE XX MALE: APPARENT TRANSLOCATION OF Y CHROMOSOME MATERIAL TO CHROMOSOME 17. H. Dosik, D. P. Madahar,* F. Khan,* and G. Spergel,* Brooklyn, New York. *AFCR page 261A*
12. CORRECTION OF HUMAN LYSOSOMAL ENZYME DEFICIENCY BY IMMUNOGLOBULIN-COATED LIPOSOMES. G. Weissman,** C. Cohen, H. Schieren, R. Kaplan, and S. Srivastava, New York, New York, and Galveston, Texas. *AAP page 441A*
13. CYSTINE DEPLETION OF CYSTINOTIC CELLS BY CYSTEAMINE. J. A. Schneider,* J. G. Thoene,* J. C. Crawhall,** and R. G. Oshima,* La Jolla, California, and Montreal, Quebec, Canada.
ASCI page 399A

Hematology

Windsor Room, Haddon Hall

1:30 P.M.

Daniel Deykin and Stephen B. Shohet, Presiding

1. REDUCTION OF ADVENTITIAL CELL COVER: AN EARLY DIRECT EFFECT OF ERYTHROPOIETIN ON BONE MARROW ULTRASTRUCTURE. J. K. Chamberlain,* P. F. Leblond,* and R. I. Weed,** Rochester, New York. *ASCI page 401A*
2. PRENATAL DIAGNOSIS IN A PREGNANCY AT RISK FOR HOMOZYGOUS β^+ -THALASSEMIA. Y. W. Kan, M. Golbus,* P. Klein,* and A. Dozy,* San Francisco, California. *AFCR page 276A*
3. NONFUNCTIONING GLOBIN MESSENGER RIBONUCLEIC ACID FOR LEPOR GLOBIN CHAINS IN HEMOGLOBIN LEPOR- β^0 -THALASSEMIA. E. J. Benz, Jr.,* D. Housman,* J. Pritchard* and B. G. Forget, Boston, Massachusetts, and Toronto, Canada.
AFCR page 269A
4. CORRECTION OF THE PERMEABILITY DEFECT IN HEREDITARY STOMATOCYTES WITH DIMETHYL ADIPIMIDATE. W. C. Mentzer* and B. H. Lubin* (Intr. by L. K. Diamond**), San Francisco, California. *ASCI page 405A*
5. CALCIUM INDEPENDENT IRREVERSIBLE SICKLING OF NORMAL RED CELL MEMBRANES IN HYBRID ERYTHROCYTES. M. R. Clark* and S. B. Shohet, San Francisco, California. *ASCI page 402A*
6. ENDOCYTOSIS AND CALCIUM MOVEMENTS IN SICKLE GHOSTS. S. L. Schrier, K. Bensch,* I. Junga,* and M. Johnson,* Stanford, California.
ASCI page 406A

7. REFEEDING MALARIA AND HYPERFERREMIA. M. J. Murray, A. B. Murray, N. J. Murray, and M. B. Murray (Intr. by H. B. Burchell), Minneapolis, Minnesota. *AAP page 442A*
8. A SIMPLIFIED TECHNIQUE FOR ASSESSING OXYGEN-HEMOGLOBIN AFFINITY AT *IN VIVO* CONDITIONS. M. A. Lichtman, Rochester, New York. *AFCR page 278A*
9. FACTOR VIII BINDING PROTEIN IN HUMAN PLATELETS. E. A. Jaffe and R. L. Nachman,** New York, New York. *AFCR page 276A*
10. ROLE OF QUATERNARY STRUCTURE IN THE COLLAGEN: PLATELET INTERACTION. R. M. Jaffe* and D. Deykin, Bethesda, Maryland, and Boston, Massachusetts. *AFCR page 276A*
11. EVIDENCE THAT VON WILLEBRAND FACTOR AND FACTOR VIII ACTIVITIES ARE CONTAINED ON A SINGLE MOLECULE WITH A COVALENT SUBUNIT STRUCTURE. M. E. Switzer* and P. A. McKee, Durham, North Carolina. *ASCI page 407A*
12. GROWTH *IN VITRO* OF HUMAN LEUKEMIC MYELOID CELLS. R. Gallagher,* Z. Salahuddin,* and R. Gallo, Bethesda, Maryland. *AFCR page 273A*
13. SPECIFIC RELEASE OF NEUTROPHIL AND EOSINOPHIL STIMULATING FACTORS FROM SENSITIZED LYMPHOCYTES. F. Ruscetti,* R. Cypess,* and P. Chervenick, Pittsburgh, Pennsylvania. *ASCI page 406A*

Immunology and Connective Tissue

Viking Room, Haddon Hall

1:30 P.M.

Charles B. Carpenter and Norman Talal, *Presiding*

1. DETECTION OF C1q-BINDING SUBSTANCES IN PATIENT SERA BY THE C1q DEVIATION TEST. V. A. Bokisch,* A. T. Sobel, and H. J. Muller-Eberhard,* La Jolla, California. *ASCI page 409A*
2. C₃ NEPHRITIC FACTOR: STABILIZATION OF ALTERNATIVE PATHWAY CONVERTASE AND POSSIBLE RELATIONSHIP TO PROPERDIN. M. R. Daha,* D. T. Fearon,* and K. F. Austen,** Boston, Massachusetts. *ASCI page 410A*
3. EVIDENCE FOR IMMUNE COMPLEXES INVOLVING ANTI-LYMPHOCYTE ANTIBODIES ASSOCIATED WITH HYPOCOMPLEMENTEMIA IN CHRONIC LYMPHOCYTIC LEUKEMIA. N. K. Day, J. P. Winfield, R. J. Winchester, T. S. Gee, and H. G. Kunkel,** New York, New York. *ASCI page 410A*
4. REACTIVITY OF LYMPHOCYTOTOXIC ANTIBODIES IN LUPUS ERYTHEMATOSUS WITH HUMAN BRAIN TISSUE. H. G. Bluestein* and N. J. Zvaifler,** La Jolla, California. *ASCI page 409A*
5. CORRELATION OF LYMPHOCYTOTOXIC AND ANTI-NUCLEIC ANTIBODIES IN SYSTEMIC LUPUS ERYTHEMATOSUS FAMILIES. R. DeHoratius, R. Pillarsetty, R. Messner, and N. Talal, Albuquerque, New Mexico, and San Francisco, California. *AFCR page 288A*
6. LYMPHOCYTES BEARING Fc RECEPTORS AS EFFECTOR CELLS IN ANTIBODY-DEPENDENT LYMPHOCYTE MEDIATED CYTOTOXICITY. L. Simchowicz* and P. H. Schur, Boston, Massachusetts. *AFCR page 297A*
7. MODULATION OF CYTOLYTIC ABILITY OF HUMAN T AND K-LYMPHOCYTES IN DIRECT AND ANTIBODY DEPENDENT LYMPHOCYTE MEDIATED CYTOTOXICITY BY AGENTS AFFECTING INTRACELLULAR LEVELS OF CYCLIC ADENOSINE MONOPHOSPHATE AND CYCLIC GUANINE MONOPHOSPHATE. M. R. Garovoy, E. J. Ball,* R. E. Lordon, and A. L. Thompson,** Lackland Air Force Base, Texas. *AFCR page 290A*
8. SEVERE COMBINED IMMUNODEFICIENCY DISEASE: EVIDENCE FOR FAILURE OF THYMIC EPITHELIAL MATURATION. K. W. Pyke,* H. M. Dosch,* and E. W. Gelfand* (Intr. by R. Orange), Toronto, Ontario, Canada. *AFCR page 295A*
9. SUPPRESSOR T CELLS IN FUNGAL INFECTION. J. Stobo,* S. Paul,* R. Van Scoy,* and P. Hermans* (Intr. by T. B. Tomasi**), Rochester, Minnesota. *AFCR page 298A*
10. CELL-MEDIATED IMMUNITY IN INFECTIOUS MONONUCLEOSIS: LYMPHOCYTE-MEDIATED CYTOTOXICITY OF LYMPHOBLASTOID CELLS EXPRESSING EPSTEIN-BARR VIRUS ANTIGENS. I. Royston,* J. L. Sullivan,* E. Perlin,* and P. O. Periman, Bethesda, Maryland, and Washington, D.C. *AFCR page 295A*
11. ALTERATION IN ADENOSINE DEAMINASE ACTIVITY IN MONOCYTE-MACROPHAGE TRANSFORMATION. D. Fischer,* M. B. Van DerWeyden,* R. Snyderman, and W. N. Kelley, Durham, North Carolina. *AFCR page 289A*
12. IMMUNOSUPPRESSION BY α -FETOPROTEIN. T. Tomasi,** R. Dattwyler, R. Murgita, and R. Keller, Rochester, Minnesota. *AAP page 444A*
13. IDIOTYPIC IMMUNOGLOBULIN ON MONOCLONAL LYMPHOCYTES OF HUMAN MULTIPLE MYELOMA: EFFECTS OF THERAPY. N. I. Abdou and N. L. Abdou,* Philadelphia, Pennsylvania. *AFCR page 408A*

Infectious Disease

Viking Room, Haddon Hall

1:30 P.M.

Joseph Pagano and Robert Couch, Presiding

1. THE LIMULUS TEST IN THE DIAGNOSIS OF CLINICAL ENDOTOXEMIA. R. J. Elin, R. A. Robinson,* A. S. Levine, and S. M. Wolff,**, Bethesda, Maryland. *AFCR page 303A*
2. *NEISSERIA GONORRHOEAE* STRAIN DIFFERENTIATION. E. C. Tramont, M. S. Artenstein,** J. M. Griffiss,* and G. F. Brooks, Washington, D.C., and Indianapolis, Indiana. *AFCR page 313A*
3. LOCAL ANTIBODY RESPONSE TO K ANTIGEN OF *E. COLI* IN EXPERIMENTAL PYELONEPHRITIS. J. W. Smith* and B. Kaijser* (Intr. by R. Tompsett), Dallas, Texas, and Goteborg, Sweden. *ASCI page 417A*
4. BINDING OF GROUP A STREPTOCOCCI TO HUMAN ORAL MUCOSAL CELLS BY LIPO-TEICHOIC ACID. E. H. Beachey* (Intr. by G. H. Stollermann**), Memphis, Tennessee. *AAP page 444A*
5. TRANSFER FACTOR IN COCCIDIOIDOMYCOSIS: A GREAT DEAL OF HEAT BUT HOW MUCH LIGHT? J. R. Graybill, San Antonio, Texas. *AFCR page 304A*
6. EXPERIMENTAL CANDIDIASIS: EFFECTS OF CYTOTOXIC DRUGS ON IMMUNITY AND INFECTION. D. L. Hurley,* J. E. Balow, and A. S. Fauci, Bethesda, Maryland. *AFCR page 306A*
7. *TORULOPSIS GLABRATA* INFECTIONS IN PATIENTS WITH CANCER: AN INCREASING INCIDENCE. J. Aisner,* S. C. Schimpff, J. C. Sutherland,* V. M. Young,** and P. H. Wiernik, Baltimore, Maryland. *AFCR page 300A*
8. ROLE OF HOMOLOGOUS ANTIBODY IN RESPIRATORY SYNCYTIAL VIRUS RESPIRATORY TRACT DISEASE. C. L. Lamprecht,* H. E. Krause,* and M. A. Mufson,** Chicago, Illinois. *AFCR page 307A*
9. LYMPHOCYTE-MEDIATED CYTOTOXICITY TO INFLUENZA VIRUS IN VACCINATED AND UNVACCINATED VOLUNTEERS. S. B. Greenberg,* B. S. Criswell,* and R. B. Couch,** Houston, Texas. *AFCR page 305A*
10. THE EFFECT OF DENGUE VIRUS INFECTION ON THE CLINICAL SEQUELAE OF JAPANESE ENCEPHALITIS. R. Edelman, R. J. Schneider,* P. Chiewanich,* R. Pornpibul,* and P. Voodhikul,* Bangkok and Chiangmai, Thailand. *AFCR page 303A*
11. HUMAN AORTA ORGAN CULTURE: PROLONGED SURVIVAL WITH SUPPORT OF VIRAL REPLICATION. F. S. Rose,* N. R. Blacklow, and R. A. Whalen,* Boston, Massachusetts. *AFCR page 311A*
12. MICROTUBULE DISRUPTION AND LYSOSOMAL FUSION IN THE MACROPHAGE. E. L. Pesanti* and S. G. Axline, Palo Alto, California. *AFCR page 309A*
13. ANTIBACTERIAL AND ANTIVIRAL ACTIVITIES OF CLOFIBRATE. M. C. Powanda, G. A. Eddy,* W. L. Steinhart,* and P. G. Canonico,* Frederick, Maryland, and Hershey, Pennsylvania. *AFCR page 310A*

Metabolism

Pennsylvania Room II, Haddon Hall

1:30 P.M.

Anthony Gotto and Louis Sherwood, Presiding

1. ISOLATION OF A UNIQUE PEPTIDE INHIBITOR OF HORMONE-RESPONSIVE ADENYLATE CYCLASE. D. C. Lehotay,* G. S. Levey, L. A. Bricker,* and J. M. Canterbury,* Miami, Florida. *ASCI page 421A*
2. THE ROLE OF SERUM HIGH DENSITY LIPOPROTEIN IN ADRENAL CHOLESTEROL UPTAKE: REGULATION BY ADRENOCORTICOTROPIC HORMONE. J. Gwynne,* D. Mahaffee,* H. B. Brewer, Jr., and R. L. Ney, Chapel Hill, North Carolina, and Bethesda, Maryland. *ASCI page 421A*
3. REMOVAL OF CELLULAR LIPIDS BY HUMAN PLASMA APOLIPOPROTEINS. R. L. Jackson,* O. Stein,* A. M. Gotto,* and Y. Stein, Houston, Texas, and Jerusalem, Israel. *ASCI page 421A*
4. EFFECT OF SUCROSE POLYESTER ON CHOLESTEROL ABSORPTION IN THE RAT. F. Mattson, R. Jandacek, and C. J. Glueck (Intr. by H. C. Knowles, Jr.,**), Cincinnati, Ohio. *AAP page 445A*
5. MAPLE SYRUP URINE DISEASE: BRANCHED-CHAIN AMINO ACID POOLS AND SPECIFIC TOXICITY OF LEUCINE ON CELL GROWTH IN CULTURED HUMAN LYMPHOBLASTS. S. D. Skaper* and J. E. Seegmiller,** La Jolla, California. *AFCR page 332A*

6. MUSCLE NITROGEN REPLETION AFTER PROTEIN INGESTION: KEY ROLE OF BRANCHED CHAIN AMINO ACIDS AND EVIDENCE OF A NEW DEFECT IN DIABETES. P. Felig and J. Wahren,* New Haven, Connecticut, and Stockholm, Sweden. *ASCI page 420A*
7. THE FINE REGULATION OF BASAL HEPATIC GLUCOSE PRODUCTION. A. S. Jennings,* A. D. Cherrington,* J. L. Chiasson,* J. E. Liljenquist, and W. W. Lacy,** Nashville, Tennessee. *AFCR page 323A*
8. THE ROLE OF THE INSULIN RECEPTOR IN THE INSULIN RESISTANCE OF HUMAN OBESITY. J. M. Amatrua, J. N. Livingston,* and D. H. Lockwood, Baltimore, Maryland. *AFCR page 314A*
9. THE SYNDROME OF EXTREME INSULIN RESISTANCE AND ACANTHOSIS NIGRICANS: A PRIMARY INSULIN RECEPTOR DEFECT IN MAN. C. R. Kahn, R. S. Bar,* P. Gorden, and J. Roth, Bethesda, Maryland. *AFCR page 324A*
10. "GLUCAGON RESISTANCE" IN FETAL AND NEONATAL RATS. E. Blazquez,* R. Rubalcava,* R. Montesano,* L. Orci,* and R. Unger,** Dallas, Texas, and Geneva, Switzerland. *AFCR page 315A*
11. PRE-PROPARATHYROID HORMONE: PARTIAL SEQUENCE DETERMINATION OF A 115-AMINO ACID POLYPEPTIDE PRECURSOR OF PARATHYROID HORMONE. J. F. Habener, B. Kemper,* M. Ernst,* A. Rich,* and J. T. Potts, Jr.,** Boston and Cambridge, Massachusetts. *AFCR page 321A*
12. PARATHYROID GLAND TRANSPLANTATION IN PATIENTS WITH RENAL OSTEODYSTROPHY. S. A. Wells, J. C. Gunnells,** R. A. Gutman, A. B. Schneider,* and L. M. Sherwood, Durham, North Carolina, and Chicago, Illinois. *AFCR page 335A*
13. REGULATION OF PLASMA 1 α ,25-DIHYDROXY-VITAMIN D₃ BY CALCIUM AND PHOSPHATE. M. R. Hughes,* M. R. Haussler, J. Wergedal, and D. J. Baylink, Tucson, Arizona, and Seattle, Washington. *AFCR page 323A*

Oncology

West Room, Haddon Hall

1:30 P.M.

Albert S. LoBuglio and Brigid Leventhal,

Presiding

1. ANTIBODY SELECTION OF MUTANT TUMOR CELLS *IN VITRO*. W. T. Shearer and C. W. Parker,** St. Louis, Missouri. *AFCR page 342A*
2. AMYLOID DISEASE AND POLYCLONAL B CELL ACTIVATION. M. A. Scheinberg and E. S. Cathcart,** Boston, Massachusetts. *AFCR page 342A*
3. GROWTH OF NORMAL AND LEUKEMIC MURINE LEUKOCYTES IN DIFFUSION CHAMBER CULTURES. A. M. Miller,* J. B. Marmor,* J. L. Russell,* and S. H. Robinson, Boston, Massachusetts. *AFCR page 341A*
4. CHROMATOGRAPHIC FORMS OF TERMINAL DEOXYNUCLEOTIDYL TRANSFERASE IN NORMAL AND LEUKEMIC HEMATOPOIETIC CELLS. R. McCaffrey, T. A. Harrison,* and D. Baltimore,* Cambridge and Boston, Massachusetts. *AFCR page 341A*
5. CHARACTERISTICS OF RIBONUCLEIC ACID TUMOR VIRUS ISOLATED FROM CULTURED HUMAN ACUTE MYELOGENOUS LEUKEMIA CELLS. R. Gallo, R. Gallagher,* and D. Gillespie,* Bethesda, Maryland. *ASCI page 424A*
6. CORRELATION OF ACTIVATED MONOCYTE WITH LYMPHOBLASTIC TRANSFORMATION IN LYMPHOMA. A. L. Sagone,* A. F. LoBuglio, S. P. Balcerzak,* and G. W. King,* Columbus, Ohio. *ASCI page 426A*
7. EFFECT OF CHILDHOOD LEUKEMIA AND CHEMOTHERAPY ON SPONTANEOUS PUBERTAL DEVELOPMENT AND REPRODUCTION IN GIRLS. E. S. Siris,* B. G. Leventhal, and J. L. Vaitukaitis, Bethesda, Maryland. *AFCR page 343A*
8. REDUCED CYCLIC ADENOSINE MONOPHOSPHATE IN CARCINOMA OF THE HUMAN COLON. F. R. DeRubertis, R. Chayoth,* and J. B. Field,** Pittsburgh, Pennsylvania. *AFCR page 337A*
9. PHARMACOKINETICS OF HIGH DOSE METHOTREXATE. S. A. Jacobs,* R. G. Stoller,* and B. A. Chabner* (Intr. by D. G. Johns), Bethesda, Maryland. *ASCI page 425A*
10. LONG-TERM PRESERVATION OF BONE MARROW FOR AUTOLOGOUS BONE MARROW TRANSPLANTATION. N. C. Gorin,* M. I. Bull,* G. P. Herzig, and R. G. Graw, Jr., Bethesda, Maryland. *AFCR page 338A*
11. AUTOLOGOUS BONE MARROW TRANSPLANTATION FOLLOWING HIGH DOSE CHEMOTHERAPY. J. S. Tobias,* R. S. Weiner, C. T. Griffiths,* C. M. Richman,* L. M. Parker,* M. C. Bowers,* and R. A. Yankee, Boston, Massachusetts. *AFCR page 344A*
12. TERMINAL ACUTE LEUKEMIA AND OVERALL SURVIVAL IN POLYCYTHEMIA VERA: RELATIONSHIP TO TREATMENT. S. A. Landaw, Syracuse, New York. *AFCR page 340A*
13. LYMPHOSARCOMA CELL LEUKEMIA: MORPHOLOGIC, FUNCTIONAL AND CLINICAL CORRELATES. H. J. Cohen, J. Shelburne,* and W. B. Kremer, Durham, North Carolina. *AFCR page 337A*

Music Room, Chalfonte

1:30 P.M.

Warren Gold and Gareth Green, *Presiding*

1. MECHANISM OF BRONCHIAL HYPERREACTIVITY IN OTHERWISE NORMAL SUBJECTS WITH UPPER RESPIRATORY TRACT INFECTIONS. D. W. Empey,* L. A. Laitinen,* L. Jacobs,* W. M. Gold, and J. A. Nadel,** San Francisco, California.
AFCR page 346A
2. CALCIUM INFLUX AND ALVEOLAR MACROPHAGE ACTIVATION. J. D. Johnson,* D. A. Lowe,* and W. L. Hand, Atlanta, Georgia.
AFCR page 348A
3. LYSOSOMAL ENZYME RELEASE FROM HUMAN AND GUINEA PIG ALVEOLAR MACROPHAGES DURING PHAGOCYTOSIS. G. S. Davis,* M. Mortara,* and G. M. Green,** Burlington, Vermont.
AFCR page 346A
4. ENHANCEMENT OF BACTERICIDAL CAPACITY OF ALVEOLAR MACROPHAGES BY HUMAN "ALVEOLAR LINING MATERIAL." J. Juers,* R. M. Rogers, and J. B. McCurdy,* Oklahoma City, Oklahoma.
AFCR page 348A
5. BRONCHOALVEOLAR CLEARANCE OF AN ORGANIC PARTICULATE ANTIGEN AFTER INTRAPULMONARY IMMUNIZATION. H. B. Kaltefleiter, E. Adam,* and F. Turner,* San Francisco, California.
AFCR page 348A
6. TRACE METALS AND THEIR EFFECT ON ALPHA-1-ANTITRYPSIN. P. Chowdhury* and D. B. Louria,** Newark, New Jersey. *AFCR page 345A*
7. EFFECT OF ACETYLCHOLINE ON ION TRANSPORT ACROSS CANINE TRACHEAL EPITHELIUM. M. G. Marin,* B. Davis,* R. E. Olver,* and J. A. Nadel,** San Francisco, California.
AAP page 447A
8. IMPAIRED CELLULAR IMMUNITY IN SARCOIDOSIS: THE LYMPHOCYTE DEFECT. G. B. Faguet, Augusta, Georgia. *AFCR page 347A*
9. ELEVATED ANGIOTENSIN CONVERTING ENZYME ACTIVITY IN NON-NECROTIZING GRANULOMATOUS LYMPH NODES IN SARCOIDOSIS. E. Silverstein,** J. Friedland,* H. Lyons,** and A. Gourin,* Brooklyn, New York.
AFCR page 352A
10. LUNG LYSYL OXIDASE AND ELASTIN SYNTHESIS DURING COMPENSATORY LUNG GROWTH. J. S. Brody,* J. M. Kagan,* A. D. Manalo,* C. A. Hu,* and C. Franzblau* (Intr. by A. V. Chobanian), Boston, Massachusetts.
ASCI page 427A
11. THE INFLUENCE OF A PROGESTATIONAL AGENT ON THE CONTROL OF BREATHING IN MAN. C. W. Zwillich,* M. R. Natalino, and J. V. Weil,* Denver, Colorado. *AFCR page 353A*
12. USE OF ⁶⁷GALLIUM LUNG SCAN IN THE DIAGNOSIS OF PULMONARY EMBOLUS. M. Khurana,* F. S. Mishkin,* R. Pick,* and A. H. Niden,** Los Angeles, California. *AFCR page 349A*
13. PULMONARY HYPERTENSION IN INTERSTITIAL LUNG DISEASE: RELATION OF VASCULAR RESISTANCE TO ABNORMAL LUNG STRUCTURE. Y. Enson, H. M. Thomas, III, C. H. Bosken, J. A. Wood, E. C. LeRoy, W. A. Blanc, H. J. Wigger, and R. M. Harvey (Intr. by A. Cournand**), New York, New York. *AAP page 447A*

Carolina Room, Chalfonte

1:30 P.M.

Juha Kokko and Norman Hollenberg, *Presiding*

1. ROLE OF THE TERMINAL NEPHRON IN REGULATION OF URINE CALCIUM AND SODIUM EXCRETION: SITE OF ACTION OF VOLUME EXPANSION AND PARATHYROID HORMONE. Z. S. Agus,* P. J. S. Chiu,* and M. Goldberg, Philadelphia, Pennsylvania. *ASCI page 428A*
2. ALTERED PERMSELECTIVITY OF THE GLOMERULAR CAPILLARY WALL TO MACROMOLECULES IN GLOMERULONEPHRITIS. R. Chang,* C. Robertson,* W. Deen,* C. Bennett,* R. Glassock,* and B. M. Breener, San Francisco and Los Angeles, California. *ASCI page 429A*
3. INTRINSIC DIFFERENCES IN VARIOUS SEGMENTS OF PROXIMAL CONVOLUTED TUBULES. H. R. Jacobson* and J. P. Kokko, Dallas, Texas. *ASCI page 431A*
4. TUBULAR FUNCTION IN RATS WITH IMPAIRED NATRIURESIS AFTER ADRENAL ENUCLEATION. E. A. Alexander, H. H. Bengel,* and E. R. McNamara,* Boston, Massachusetts. *AFCR page 354A*
5. EFFECT OF HYPOTHALAMIC STIMULATION ON RENAL BLOOD FLOW AND SODIUM EXCRETION. R. E. Hall* and V. M. Buckalew, Jr., Winston-Salem, North Carolina. *AFCR page 363A*
6. SODIUM-POTASSIUM ADENOSINE TRIPHOSPHATASE IN DOGS WITH AORTO-CAVAL FISTULA. C. Westenfelder, L. Nascimento,* N. A. Kurtzman, and A. I. Katz,** Chicago, Illinois. *AFCR page 377A*
7. EVIDENCE THAT THE RENAL RESPONSE TO HYPOCAPNIA IS NOT HOMEOSTATIC IN ORIGIN. J. J. Cohen,* N. E. Madias,* C. J. Wolf,* and W. B. Schwartz,** Boston, Massachusetts. *ASCI page 430A*
8. INHIBITORY EFFECTS OF HYPERMAGNESEMIA ON THE RENAL ACTION OF PARATHYROID HORMONE. E. Slatopolsky, A. Mercado,* A. Morrison,* and S. Klahr, St. Louis, Missouri. *AFCR page 374A*
9. ROLE OF INTRARENAL ANGIOTENSIN II ON RENAL FUNCTION IN CONSCIOUS DOGS. H. M. Kimbrough, Jr.,* E. D. Vaughan, Jr., R. M. Carey, and C. R. Ayers,** Charlottesville, Virginia. *AFCR page 366A*
10. EFFECT OF CHRONIC PARTIAL OCCLUSION OF THE THORACIC INFERIOR VENA CAVA ON PROXIMAL NEPHRON FUNCTION IN DOGS. R. B. Auld, J. H. Kim,* and P. B. Reid,* Halifax, Nova Scotia, Canada. *AFCR page 354A*
11. ON THE CHARACTERIZATION OF NATRIURETIC FACTOR. J. Bourgoignie, M. Kaplan,* Ch. Eun,* H. Favre,* K. Hwang,* O. Blumenfeld,* and N. S. Bricker,** Bronx, New York. *ASCI page 429A*
12. DEMONSTRATION OF A RECEPTOR FOR ACTIVATED C₃ IN THE HUMAN RENAL GLOMERULUS. M. C. Gelfand,* R. K. Edelson,* M. M. Frank, and I. Green, Bethesda, Maryland. *ASCI page 431A*
13. THE LONG-TERM COURSE OF POSTSTREPTOCOCCAL GLOMERULONEPHRITIS IN CHILDREN. R. G. Schacht,* M. S. Iqbal,* M. C. Gluck, G. Gallo,* and D. S. Baldwin,** New York, New York. *AFCR page 373A*

Program—Subspecialty Meetings

Sponsored by

THE AMERICAN FEDERATION FOR CLINICAL RESEARCH

Chalfonte-Haddon Hall Hotel, LaFayette Hotel, and Ramada Inn

Atlantic City, New Jersey

SUNDAY EVENING, MAY 4, 1975

Cardiovascular III, *Carolina Room, Chalfonte*
Cardiovascular IV, *Music Room, Chalfonte*
Clinical Pharmacology, *Teakwood Room, LaFayette*
Dermatology, *Garden Room, Haddon Hall*
Endocrinology II, *Rutland Room, Haddon Hall*
Gastroenterology II,† *Viking Room, Haddon Hall*
Gastroenterology III, *West Room, Haddon Hall*
Hematology II, *Windsor Room, Haddon Hall*
Hematology III, *Vernon Room, Haddon Hall*

Immunology and Connective Tissue II,† *Pennsylvania Room II, Haddon Hall*
Infectious Disease II, *Ramada Inn*
Metabolism II,† *Pennsylvania Room III, Haddon Hall*
Pulmonary II, *Solarium, Haddon Hall*
Renal and Electrolytes III,† *Pennsylvania Room II, Haddon Hall*

†Followed by a symposium.

Cardiovascular III

Carolina Room, Chalfonte

7:30 P.M.

Robert DeJoseph, Peter R. Maroko,
and James T. Willerson, *Presiding*

1. DUAL RADIONUCLIDE STUDY OF MYOCARDIAL INFARCTION: RELATIONSHIPS BETWEEN POTASSIUM-43, TECHNETIUM-99M PYROPHOSPHATE AND MYOCARDIAL CREATINE PHOSPHOKINASE. B. L. Zaret, R. K. Donabedian, S. Wolfson, S. Puri,* G. S. Freedman,* and L. S. Cohen,** New Haven, Connecticut. *page 215A*
2. CREATINE PHOSPHOKINASE EXPONENTIAL DISAPPEARANCE RATE: EFFECT OF PROPRANOLOL. J. A. Cairns,* J. Cramer,* I. G. Fantus,* and G. A. Klassen,** Montreal, Canada. *page 174A*
3. TECHNETIUM-99M STANNOUS PYROPHOSPHATE MYOCARDIAL IMAGING IN PATIENTS WITH LEFT VENTRICULAR ANEURYSM. M. Ahmad,* J. Dubiel,* T. A. Verdon,* and R. H. Martin,** Columbia, Missouri. *page 168A*
4. THE EFFECT OF MINOXIDIL ON REGIONAL MYOCARDIAL BLOOD FLOW DURING ACUTE

CORONARY ARTERY OCCLUSION. P. Radvany,* M. A. Davis,* J. E. Muller,* and P. R. Maroko, Boston, Massachusetts. *page 203A*

5. THE EFFECTS OF APROTININ ON MYOCARDIAL ISCHEMIC INJURY FOLLOWING EXPERIMENTAL CORONARY ARTERY OCCLUSION. P. E. Diaz* and P. R. Maroko, Boston, Massachusetts. *page 180A*
6. EFFECT OF DIGITALIS ON PREDICTED MYOCARDIAL INFARCT SIZE IN MAN. J. Morrison, R. Pizzarello,* L. Reduto,* and S. Gulotta, Manhasset, New York. *page 198A*
7. CORONARY ARTERY SPASM AS A CAUSE OF ACUTE ISCHEMIA IN PATIENTS. HEMODYNAMIC AND ANGIOGRAPHIC DOCUMENTATION. A. Maseri, R. Mimmo,* S. Chierchia,* C. Marchesi,* A. Pesola,* and A. L'Abbate,* Pisa, Italy. *page 195A*
8. THE EFFECT OF PHYSIOLOGIC MANEUVERS ON THE ECHOCARDIOGRAPHIC SYSTOLIC MITRAL MOTION IN PATIENTS WITH MIDSYSTOLIC CLICK AND NORMALS. R. G. Stevenson* and J. F. Meyer, Washington, D.C. *page 210A*

9. CONSUMPTION OF COMPLEMENT COMPONENTS IN PATIENTS WITH ACUTE MYOCARDIAL INFARCTION. R. A. O'Rourke, M. S. Olson,* P. C. Giclas,* R. Terry,* J. T. Boyer,* and R. N. Pinckard, Tucson, Arizona and San Diego, California. *page 200A*
10. ENDOCARDIAL ISCHEMIA, A CONSEQUENCE OF RIGHT VENTRICULAR PRESSURE OVERLOAD. F. J. Sestier, R. R. Mildener,* and G. A. Klassen,** Montreal, Quebec, Canada. *page 208A*

Cardiovascular IV

Music Room, Chalfonte

7:30 P.M.

Herman Falsetti and Michael V. Herman, *Presiding*

1. EXTENT OF ARTERIAL BARORECEPTOR MODULATION OF THE CARDIOVASCULAR RESPONSE TO OUABAIN IN CONSCIOUS DOGS. G. A. Bergeron,* R. J. McRitchie,* R. W. Millard,* and S. F. Vatner, Boston, Massachusetts. *page 172A*
2. INHIBITION OF CAROTID CHEMORECEPTOR AND BARORECEPTOR REFLEXES BY CARDIOPULMONARY REFLEXES WITH VAGAL AFFERENT PATHWAYS. A. L. Mark, H. Koike,* D. D. Heistad, P. G. Schmid, and F. M. Abboud,** Iowa City, Iowa. *page 195A*
3. ASSOCIATION OF ARTERIAL COMPLIANCE WITH BAROREFLEX SENSITIVITY IN NORMOTENSIVE AND HYPERTENSIVE SUBJECTS. O. S. Randall,* M. D. Esler,* S. Julius,** and R. V. Calfee,* Ann Arbor, Michigan. *page 203A*
4. DISPLACEMENT CARDIOGRAPHY IN THE DIAGNOSIS OF CONSTRICTIVE PERICARDITIS. J. E. Markis, H. E. Lindsey,* R. Vas,* L. J. Sloss,* P. F. Cohn, and E. H. Sonnenblick,** Boston, Massachusetts. *page 195A*
5. ELECTROPHYSIOLOGIC EFFECTS OF CORONARY OCCLUSION AND REPERFUSION. R. Levites, V. S. Banka, and R. H. Helfant, Philadelphia, Pennsylvania. *page 192A*
6. THE MUSCARINIC AUGMENTATION OF VENTRICULAR ELECTRICAL STABILITY. S. H. Rabinowitz,* R. L. Verrier,* R. J. Matta,* and B. Lown,** Boston, Massachusetts. *page 202A*
7. ISOPROTERENOL-INDUCED CARDIOMYOPATHY: CHANGES IN CARDIAC ENZYME ACTIVITIES AND PROTECTION BY METHYLPREDNISOLONE. E. A. Mueller,* W. S. T. Griffin,* and K. Wildenthal, Dallas, Texas. *page 198A*
8. DIGOXIN PROPHYLAXIS FOR PREVENTION OF THE CARDIAC CONTRACTILE DEFECT PRODUCED BY PRESSURE OVERLOAD. R. L. Coulson,* E. Rubio,* A. A. Bove,* and J. F. Spann, Philadelphia, Pennsylvania. *page 177A*
9. PROSTAGLANDINS AND REVERSAL OF ONE KIDNEY GOLDBLATT HYPERTENSION. J. C. Romero,* C. E. Ott, J. Aguilo,* V. E. Torres,* and C. G. Strong, Rochester, Minnesota. *page 206A*

Clinical Pharmacology

Teakwood Room, LaFayette Hotel

7:30 P.M.

Arthur J. Atkinson, Jr. and Marcus Reidenberg, *Presiding*

1. THE METABOLIC FATE OF PROCAINAMIDE-¹⁴C IN MAN. E. V. Giardina, J. T. Bigger, Jr., J. Dreyfuss,* and E. Schreiber,* New York, New York, and New Brunswick, New Jersey. *page 220A*
2. THE INFLUENCE OF ACUTE VIRAL HEPATITIS ON LIDOCAINE DISPOSITION IN MAN. R. L. Williams, T. F. Blaschke,* P. J. Meffin, K. L. Melmon, and M. Rowland, San Francisco and Palo Alto, California. *page 226A*
3. URINARY EXCRETION OF PROCAINAMIDE. R. L. Galeazzi,* T. Lockwood,* L. B. Sheiner, and L. Z. Benet,* San Francisco, California. *page 219A*
4. THE BILIARY EXCRETION OF DIGOXIN AND METABOLITES IN HYPERTHYROID RATS. C. R. Hartman,* C. D. Klaassen,* and D. H. Huffman, Kansas City, Missouri, and Kansas City, Kansas. *page 220A*
5. SPECIAL STUDIES ON DIFLUNISAL, A NOVEL SALICYLATE. K. F. Tempero, S. L. Steelman,* G. H. Besselaar,* C. T. Smit-Sibinga,* P. De Shepper,* T. B. Tjandramaga,* A. Dresse,* and F. W. J. Gribnau,* Rahway, New Jersey; Groningen and Nijmegen, The Netherlands; and Leuven and Liege, Belgium. *page 224A*

6. DRUG METABOLISM IN MAN: INFLUENCE OF AGE AND HABITS (ALCOHOL, CAFFEINE, AND CIGARETTE SMOKING). R. E. Vestal,* A. H. Norris,* J. D. Tobin, N. W. Shock,* and R. Andres,** Baltimore, Maryland. *page 225A*
7. ARYL HYDROCARBON HYDROXYLASE INDUCTION IN CULTURED HUMAN LYMPHOCYTES FROM MONOZYGOTIC AND DIZYGOTIC TWINS. S. A. Atlas,* E. S. Vesell, and D. W. Nebert* (Intr. by R. J. Sherins), Bethesda, Maryland, and Hershey, Pennsylvania. *page 218A*
8. FACTORS AFFECTING ABSORPTION OF PHARMACOLOGICALLY ADMINISTERED ZINC. F. J. Oelshlegel, Jr., and G. J. Brewer,** Ann Arbor, Michigan. *page 222A*

Dermatology

Garden Room, Haddon Hall

7:30 P.M.

**Stanford I. Lamberg and Edmund Lowney,
Presiding**

1. PEMPHIGUS AND PEMPHIGOID SALINE SOLUBLE ANTIGENS FROM SKIN: DETECTION BY PASSIVE HEMAGGLUTINATION. L. A. Diaz,* N. J. Calvanico,* T. B. Tomasi, Jr.,** and R. E. Jordon, Rochester, Minnesota. *page 228A*
2. IMMUNOFLUORESCENT STUDIES OF CICATRICAL PEMPHIGOID. R. S. Rogers, III, and R. E. Jordon, Rochester, Minnesota. *page 231A*
3. TWO DISTINCT HISTOLOGIC PATTERNS OF NECROTIZING ANGIITIS IN HUMAN SKIN. N. A. Soter,* M. C. Mihm,* I. Gigli,* H. F. Dvorak,* and K. F. Austen,** Boston, Massachusetts. *page 231A*
4. IMMUNOLOGY OF EPIDERMAL FIBROUS PROTEINS. L. D. Lee* and H. P. Baden,** Boston, Massachusetts. *page 230A*
5. COLLAGENASE PRODUCTION BY HUMAN SKIN FIBROBLASTS. E. A. Bauer, A. Z. Eisen,** and J. J. Jeffrey,* St. Louis, Missouri. *page 226A*
6. STREPTOCOCCAL KERATINASE. J. W. Burnett,* M. H. Talezadeh, and G. J. Calton, Baltimore, Maryland. *page 227A*
7. PERCUTANEOUS ABSORPTION IN THE RHESUS MONKEY COMPARED TO MAN. R. C. Wester* and H. I. Maibach,** Chicago, Illinois, and San Francisco, California. *page 231A*
8. INHIBITION OF INDUCTION OF HUMAN CONTACT SENSITIZATION BY TOPICAL GLUCOCORTICOSTEROIDS. W. Burrows, Jr.,* and R. Stoughton,** San Diego and La Jolla, California. *page 227A*

Endocrinology II

Rutland Room, Haddon Hall

7:30 P.M.

Charles Hollander and Gary Robertson, Presiding

1. MECHANISM OF IMPAIRED WATER EXCRETION IN MINERALOCORTICOID DEFICIENT DOGS. J. Boykin,* A. McCool,* G. Robertson, K. McDonald, and R. Schrier, Indianapolis, Indiana. *page 233A*
2. A NEW ADRENAL INHIBITOR EFFECTIVE IN THE TREATMENT OF PRIMARY ALDOSTERONISM. J. W. Hollifield,* T. J. McKenna,* J. McD. Wolf,** W. T. Chick,* and G. W. Liddle,** Nashville, Tennessee. *page 237A*
3. ALDOSTERONE PRODUCTION BY ISOLATED GLOMERULOSA CELLS: ENHANCEMENT OF SENSITIVITY TO ANGIOTENSIN II BY POTASSIUM. P. Fredlund,* S. Saltman,* R. Ling,* and K. Catt,** Bethesda, Maryland. *page 235A*
4. EFFECT OF STRESS ON PLASMA VASOPRESSIN AND CORTICOSTERONE IN RATS. T. C. Brennan,* R. L. Shelton,* and G. L. Robertson, Indianapolis, Indiana. *page 234A*
5. ON THE MECHANISM OF INHIBITION BY IODIDE OF THYROID ADENYLATE CYCLASE RESPONSIVENESS TO THYROTROPIN. B. Rapoport and S. H. Ingbar,** San Francisco, California. *page 241A*
6. A NEW SYNDROME OF HYPERTHYROIDISM CAUSED BY PITUITARY HYPERSECRETION OF THYROTROPIN. M. C. Gershengorn* and B. D. Weintraub, Bethesda, Maryland. *page 236A*

7. ALTERED MOLECULAR HETEROGENEITY OF CIRCULATING PROLACTIN FOLLOWING THYROTROPIN RELEASING HORMONE. K. Kataoka,* Y. Imai,* and C. S. Hollander, New York, New York. *page 238A*
8. DEMONSTRATION OF A THYROID HORMONE DEPENDENT PROTEIN IN LIVER CYTOSOL OF MALE RATS. W. Dillman,* E. Silva,* M.I. Surks, and J. H. Oppenheimer,** Bronx, New York. *page 235A*
9. A MYOCARDIAL CELL CULTURE SYSTEM RESPONSIVE TO PHYSIOLOGIC LEVELS OF THYROID HORMONE. J. S. Tsai* (Intr. by H. H. Samuels), New York, New York. *page 243A*
10. CORTICOSTEROID-INDUCED ACUTE REDUCTION IN THYROID SECRETION. D. E. Williams,* I. J. Chopra, J. Orgiazzi,* and D. H. Solomon,** Los Angeles, California. *page 244A*

Gastroenterology II

Viking Room, Haddon Hall

7:30 P.M.

Seymour Sabesin and David Saunders, *Presiding*

1. TRANSFER FACTOR THERAPY OF CHRONIC ACTIVE HEPATITIS: PRELIMINARY RESULTS OF A PROSPECTIVE DOUBLE-BLIND TRIAL. S. T. Shulman,* S. A. Howlett,* J. H. Hutto,* E. M. Ayoub,* and J. E. McGuigan,** Gainesville, Florida. *page 257A*
2. HEPATIC ULTRASTRUCTURAL CHANGES IN VINYL-CHLORIDE WORKERS. T. Triche,* K. Ishak,* A. Wolkoff,* and P. D. Berk, Bethesda, Maryland, and Washington, D.C. *page 259A*
3. THE MECHANISM OF ALCOHOLIC HEPATOMEGALY. E. Baraona,* M. A. Leo,* and C. S. Lieber,** New York, New York. *page 245A*
4. DEOXYCHOLIC ACID METABOLISM IN PATIENTS WITH ALCOHOLIC CIRRHOSIS. R. G. Knodell, M. D. Kinsey,* and E. C. Boedeker,* Washington, D.C. *page 252A*
5. METABOLISM OF CHENODEOXYCHOLATE BY INTESTINAL MUCOSA. D. Rachmilewitz* and D. R. Saunders, Seattle, Washington. *page 254A*
6. REGULATION OF CHOLIC ACID FORMATION IN MAN. G. Salen, G. Nicolau,* and E. H. Mosbach,* East Orange and Newark, New Jersey, and New York, New York. *page 255A*
7. SYNTHETIC AND NATURALLY OCCURRING BILE SALTS—MODIFIERS OF ADENOSINE TRI-

PHOSPHATASE ACTIVITY IN CANALICULAR ENRICHED LIVER PLASMA MEMBRANES. B. Nemchausky,* D. Reno,* and J. L. Boyer, Chicago, Illinois. *page 254A*

8. BILE-SALT-DEPENDENT AND INDEPENDENT BILIRUBIN EXCRETION IN PATIENTS WITH PIGMENT AND CHOLESTEROL GALLSTONES. S. D. Shull,* C. I. Wagner,* B. W. Trotman, and R. D. Soloway, Philadelphia, Pennsylvania. *page 256A*

Symposium

“The Gastrointestinal Effects of Prostaglandins”

Moderator: John M. Dietschy

Participants:

1. THE EFFECTS OF PROSTAGLANDINS ON H⁺ SECRETION IN THE STOMACH. Donald E. Wilson, The Abraham Lincoln School of Medicine, Chicago, Illinois.
2. THE EFFECTS OF PROSTAGLANDINS ON SMALL INTESTINAL ABSORPTION AND SECRETION. Daniel V. Kimberg, University of Rochester, Rochester, New York.
3. THE EFFECTS OF PROSTAGLANDINS ON ESOPHAGEAL MOTILITY. Raj K. Goyal, University of Texas Health Science Center at Dallas, Dallas, Texas.

Gastroenterology III

West Room, Haddon Hall

7:30 P.M.

Norton Greenberger and William Heizer, *Presiding*

1. FURTHER OBSERVATIONS ON THE TRANSMISSIBILITY OF CROHN'S DISEASE. D. R. Cave,* D. N. Mitchell,* and B. N. Brooke* (Intr. by W. L. Beeken**), London, England. *page 246A*

2. PATHOGENESIS OF ARTHRITIS ASSOCIATED WITH INTESTINAL BYPASS PROCEDURE FOR MORBID OBESITY: COMPLEMENT ACTIVATION AND CHARACTERIZATION OF CIRCULATING IMMUNE COMPLEXES. J. R. Wands,* J. T. LaMont,* E. Mann,* and K. J. Isselbacher,** Boston, Massachusetts. *page 259A*

3. GLUTEN-SENSITIVE ENTEROPATHY: CORRELATION OF ORGAN CULTURE BEHAVIOR WITH HL-A STATUS. D. L. Nelson,* Z. M. Falchuk, D. Kasarda,* and W. Strober, Bethesda, Maryland, and Boston, Massachusetts. *page 254A*
4. THE EFFECT OF COLCHICINE ON INTESTINAL LIPOPROTEIN SECRETION. R. M. Glickman, J. L. Perrotto,* and K. Kirsch,* Boston, Massachusetts. *page 249A*
5. STUDIES OF HUMAN FOLATE CONJUGASE. C. H. Halsted, A. M. Reisenauer,* and J. J. Corcino, Davis, California, and San Juan, Puerto Rico. *page 250A*
6. INTESTINAL ABSORPTION AND METABOLISM OF α -KETO β -METHYLVALERATE. F. L. Weber, Jr.,* W. C. Maddrey, and M. Walser,** Baltimore, Maryland. *page 260A*
7. AUGMENTED COLONIC POTASSIUM SECRETION IN RENAL INSUFFICIENCY. C. P. Basti,* J. P. Hayslett, and H. J. Binder, New Haven, Connecticut. *page 245A*
8. THE EFFECT OF INTRALUMINAL PO₂ ON THE COLONIC BACTERIAL FLORA. J. H. Bond, W. Beggs,* and M. D. Levitt, Minneapolis, Minnesota. *page 246A*

Hematology II

Windsor Room, Haddon Hall

7:30 P.M.

Paul Chervenick and Sanford Krantz, *Presiding*

1. ENDOGENOUS ERYTHROID COLONY FORMATION BY POLYCYTHEMIA VERA BONE MARROW: INHIBITION BY ANTI-ERYTHROPOIETIN. E. D. Zanjani, J. D. Lutton,* K. Goldstein,* and L. R. Wasserman,** New York, New York. *page 285A*
2. EFFECT OF RENIN ON EXTRARENAL ERYTHROPOIETIN PRODUCTION. A. Anagnostou,* R. Baranowski, V. K. G. Pillay,** N. Kurtzman, and W. Fried, Chicago, Illinois. *page 268A*
3. STIMULATION OF CYCLIC GUANINE MONOPHOSPHATE LEVELS IN RAT FETAL LIVER CELLS BY ERYTHROPOIETIN. J. D. Bomboy,* S. E. Graber, W. D. Salmon,** and S. B. Krantz, Nashville, Tennessee. *page 269A*
4. SEQUENTIAL ACTIVATION OF SPLENIC NUCLEAR RIBONUCLEIC ACID POLYMERASES BY ERYTHROPOIETIN. J. L. Spivak, C. Piantadosi,* and H. W. Dickerman,* Baltimore, Maryland. *page 283A*
5. VARIABLES IN ERYTHROID COLONY GROWTH FROM HUMAN MARROW. M. H. Freedman* and E. F. Saunders, Toronto, Canada. *page 272A*
6. ELECTRON MICROSCOPIC LOCALIZATION OF TRANSFERRIN ON RAT RETICULOCYTES. A. L. Sullivan, J. Grasso,* and L. R. Weintraub, Boston, Massachusetts. *page 283A*
7. FOLATE-INDUCED REMISSION IN APLASTIC ANEMIA WITH IMPAIRED CELLULAR FOLATE UPTAKE. R. F. Branda, C. F. Moldow, and H. S. Jacob, Minneapolis, Minnesota. *page 270A*
8. NEUTROPHIL APLASIA: EVIDENCE FOR A CIRCULATING INHIBITOR OF GRANULOPOIESIS. M. J. Cline, D. W. Golde, G. Opelz,* and J. L. Fahey,** Los Angeles and Duarte, California. *page 270A*
9. SERUM COLONY STIMULATING RESPONSES IN TOLERANT AND INFECTED MICE. P. Quesenberry, H. Cohen,* M. Ryan,* and F. Stohlman, Jr.,** Boston, Massachusetts. *page 280A*
10. COCULTIVATION OF HUMAN TUMOR AND XC CELLS AS A METHOD FOR THE INDUCTION OF C-TYPE PARTICLES. N. Gabelman,* S. Ong,* and S. Waxman, New York, New York. *page 273A*

Hematology III

Vernon Room, Haddon Hall

7:30 P.M.

David Green and Simon Karpatkin, *Presiding*

1. PURIFICATION AND BINDING PROPERTIES OF HUMAN PLATELET FACTOR FOUR. R. I. Handin and H. J. Cohen,* Boston, Massachusetts. *page 275A*
2. SYMMETRICAL LOSS OF MEMBRANE GLYCOPROTEINS FROM CIRCULATING PLATELETS. J. N. George, P. C. Lewis,* and D. A. Sears,** San Antonio, Texas. *page 273A*

3. LEUKOCYTE-PLATELET INTERACTION: RELEASE OF H_2O_2 BY GRANULOCYTES AS A MODULATOR OF PLATELET REACTIONS. P. H. Levine, R. S. Weinger,* J. Simon,* K. L. Scoon,* and N. I. Krinsky,* Boston, Massachusetts. *page 277A*
4. ROLE OF GAS TRANSPORT ACROSS PLASTIC CONTAINERS IN MAINTENANCE OF VIABILITY OF PLATELET CONCENTRATES STORED AT 22 CENTIGRADE. S. Murphy and F. H. Gardner,** Philadelphia, Pennsylvania. *page 279A*
5. THE PHYSIOLOGIC SIGNIFICANCE OF THE THROMBIN RECEPTOR ON PLATELETS. M. A. Shuman and P. W. Majerus, St. Louis, Missouri. *page 282A*
6. *IN VIVO* AND *IN VITRO* EFFECTS OF THROMBIN AND PLASMIN ON FACTOR VIII. E. C. Y. Lian, R. Nunez,* and D. R. Harkness, Miami, Florida. *page 277A*
7. FIBRINOPEPTIDE CLEAVAGE PATTERNS BY DIFFERENT ENZYMES AND IN DIFFERENT CLINICAL STATES. S. Bilezikian, H. L. Nossel,** M. Ti,* V. P. Butler, Jr.,** R. E. Canfield,* and T. Soland,* New York, New York. *page 269A*
8. A DOUBLE-ANTIBODY RADIOIMMUNOASSAY FOR THE RISTOCETIN AGGREGATION FACTOR. D. Green, Chicago, Illinois. *page 274A*
9. FLAUJEAC TRAIT: DEFICIENCY OF HUMAN PLASMA KININOGEN. K. D. Wuepper, D. R. Miller,* and M. J. Lacombe,* Portland, Oregon. *page 285A*
10. SPECTROFLUORESCENT DETECTION OF *IN VIVO* LIPID PEROXIDATION IN PATIENTS RECEIVING DAPSONE. B. D. Goldstein and E. M. McDonagh,* New York, New York. *page 274A*

Immunology and Connective Tissue II

Pennsylvania Room I, Haddon Hall

7:30 P.M.

J. Claude Bennett and Alfred Steinberg, *Presiding*

1. IDENTIFICATION AND CHARACTERIZATION OF TWO SEPARATE POPULATIONS OF HUMAN PERIPHERAL BLOOD LYMPHOCYTES BEARING SURFACE IMMUNOGLOBULIN. P. I. Lobo* and D. A. Horwitz, Charlottesville, Virginia. *page 294A*
2. THE ASSOCIATION OF α_2 MACROGLOBULIN WITH THE F_c RECEPTOR ON B LYMPHOCYTES. F. Gelder,* P. Hurtubise,* J. Scillian,* and S. Murphy, Columbus, Ohio. *page 291A*
3. STUDY OF PERIPHERAL BLOOD LYMPHOCYTES IN SYSTEMIC LUPUS ERYTHEMATOSUS. W. Glinski,* M. E. Gershwin,* and A. D. Steinberg, Bethesda, Maryland. *page 291A*
4. LYMPHOCYTE CELL MEMBRANE IMMUNOGLOBULIN D. F. D. Finkelman,* J. A. van Boxel,* R. Asofsky,* and W. E. Paul, Bethesda, Maryland. *page 289A*
5. THE HUMAN MONOCYTE IMMUNOGLOBULIN G RECEPTOR: RESPONSE TO A CHEMOTACTIC GRADIENT. G. L. Goodhart,* R. K. Root, and A. D. Schreiber, Philadelphia, Pennsylvania. *page 292A*
6. A SIMPLE METHOD FOR IDENTIFYING COMPLEMENT RECEPTOR-BEARING MONONUCLEAR CELLS. J. A. Gelfand,* A. S. Fauci, I. Green,* and M. M. Frank, Bethesda, Maryland. *page 291A*
7. EFFECTOR CELL ACTIVITY IN HUMAN ANTIBODY-DEPENDENT CELLULAR CYTOTOXICITY: VARIABILITY WITHIN AND BETWEEN

INDIVIDUALS AND EFFECT OF PHAGOCYTE DEPLETION. S. E. Miller,* J. H. Grendell,* S. R. Berger,* W. B. Kirshner,* and D. M. Bull,** Boston, Massachusetts. *page 294A*

8. HLA-W27 AND CELLULAR IMMUNITY TO IMMUNOGLOBULIN G IN PATIENTS WITH ANKYLOSING SPONDYLITIS AND THEIR FAMILIES. R. H. Weisbart, R. I. Morris,* P. I. Terasaki,* R. Bluestone, and L. S. Goldberg, Los Angeles, California. *page 299A*

Symposium

"Structure and Function at the Lymphocyte Surface"

Moderator: J. Claude Bennett

Participants:

1. GENETIC CONTROL OF SPECIFIC IMMUNE RESPONSES: IMPLICATIONS FOR IMMUNOBIOLOGY AND DISEASE SUSCEPTIBILITY. William Paul, National Institute of Allergy and Infectious Diseases, Bethesda, Maryland.
2. THYMOPOIETIN AND T CELL DIFFERENTIATION. Gideon Goldstein, Memorial Sloan-Kettering Cancer Center, New York, New York.
3. TUMOR AND ALLOANTIGEN RECOGNITION BY LYMPHOCYTES. Richard Smith, University of Florida, Gainesville, Florida.

Ramada Inn

7:30 P.M.

Alan Bisno and Gerald Mandell, *Presiding*

1. DEFECTIVE NEUTROPHIL CHEMOTAXIS IN ENDOTOXEMIA. M. C. Territo,* M. J. Cline, and D. W. Golde (Intr. by R. I. Lehrer), Los Angeles, California. *page 312A*
2. DEFICIENT CHEMOTAXIS IN DIALYSIS PATIENTS WITH CORRECTION FOLLOWING TRANSPLANTATION. W. H. Greene,* S. M. Mauer,* and P. G. Quie,** Minneapolis, Minnesota. *page 305A*
3. RELATIONSHIP OF ENDOTOXIN PROPERTIES TO CLINICAL EFFECTS OF MENINGOCOCCI. C. E. Davis and K. Arnold,* San Diego, California. *page 302A*
4. INFLUENCE OF COLONIAL TYPE ON SUSCEPTIBILITY OF GONOCOCCI TO KILLING BY HUMAN SERUM. J. A. McCutchan, S. Levine, and A. I. Braude, San Diego, California. *page 308A*
5. RELATIONSHIP BETWEEN O₂ AND H₂O₂ PRODUCTION AND UTILIZATION BY HUMAN GRANULOCYTES. R. K. Root and J. Metcalf, Philadelphia, Pennsylvania. *page 311A*
6. RELATIONSHIP BETWEEN GRANULOCYTE ADHERENCE AND GRANULOCYTE KINETICS. R. R. MacGregor, Philadelphia, Pennsylvania. *page 308A*
7. GLUCOSE METABOLISM BY MACROPHAGES DURING MYCOPLASMA INFECTION. T. C. Jones and L. C. Yang,* New York, New York. *page 306A*
8. CIRCULATING LYMPHOCYTE SUBPOPULATIONS IN VIRAL GASTROENTERITIS. R. Dolin, R. C. Reichman,* and A. S. Fauci, Bethesda, Maryland. *page 303A*
9. LYMPHOCYTE RESPONSIVENESS TO O AND K ANTIGENS OF *E. COLI* IN EXPERIMENTAL PYELONEPHRITIS. J. W. Smith and B. Kaijser,* Dallas, Texas, and Goteborg, Sweden. *page 312A*
10. LOCAL OR SYSTEMIC BACILLUS CALMETTE GUERIN IMMUNIZATION USED TO NONSPECIFICALLY PROTECT MICE AGAINST INFLUENZA VIRUS INFECTION. J. C. Spencer,* R. Ganguly,* and R. H. Waldman, Gainesville, Florida. *page 312A*

Metabolism II

Pennsylvania Room III, Haddon Hall

7:30 P.M.

Jack Coburn and Ralph Goldsmith, *Presiding*

1. INCREASED CIRCULATING 1 α ,25-DIHYDROXY-VITAMIN D₃ IN PATIENTS WITH PRIMARY HYPERPARATHYROIDISM. M. R. Haussler, K. M. Bursac,* H. Bone,* and C. Y. C. Pak, Tucson, Arizona, and Dallas, Texas. *page 322A*
2. 1,25-HYDROXYCHOLECALCIFEROL INHIBITION OF PARATHYROID HORMONE SECRETION. B. S. Chertow, D. Baylink,** J. Wergedal, and A. Norman, Chicago, Illinois; Seattle, Washington; and Riverside, California. *page 316A*
3. BETA ADRENERGIC SYSTEM AND CALCIUM IN CONTROL OF PARATHYROID HORMONE SECRETION. S. C. Kukreja,* P. A. Johnson,* P. Banerjee,* G. Ayala,* E. N. Bowser,* G. K. Hargis,* and G. A. Williams,** Chicago, Illinois. *page 325A*
4. ACUTE METABOLIC ACIDOSIS ON CALCIUM MOBILIZATION FROM BONE AND CALCIUM EXCRETION, AND ON PARATHYROID HORMONE ACTIONS. S. W. Reed and N. Beck, Pittsburgh, Pennsylvania. *page 328A*

5. EXCRETORY PRODUCTS OF ^3H -VITAMIN D_3 IN THE NEWBORN RHESUS MONKEY: EVIDENCE FOR INTESTINAL REABSORPTION OF 25-HYDROXY VITAMIN D_3 . H. Rikkers, Madison, Wisconsin. *page 328A*
6. A ROLE FOR PROSTAGLANDIN E IN THE HYPERCALCEMIA OF HUMAN CANCER. R. P. Robertson and D. J. Baylink, Seattle, Washington. *page 329A*
7. THE STRUCTURE OF HUMAN HIGH DENSITY LIPOPROTEIN: RADIOIMMUNOASSAY STUDIES. G. Schonfeld, R. Roy,* and B. Pflieger,* St. Louis, Missouri. *page 331A*
8. ORGANS AND SUBCELLULAR SITES INVOLVED IN CATABOLISM OF CANINE APOLIPOPROTEIN A. T. Nakai* and T. F. Whayne, Jr., Oklahoma City, Oklahoma. *page 326A*

Symposium

"Ketogenesis and Gluconeogenesis"

Moderator: Philip Felig

Participants:

1. HORMONAL CONTROL OF KETOGENESIS. J. Denis McGarry, University of Texas Southwestern Medical School, Dallas, Texas.
2. KETONE PRODUCTION AND UTILIZATION IN FASTING AND DIABETIC MAN. Oliver E. Owen, Temple University, Philadelphia, Pennsylvania.
3. KETOGENESIS AND GLUCONEOGENESIS DURING EXERCISE IN HEALTH AND DIABETES. John Wahren, Karolinska Institute, Stockholm, Sweden, and Philip Felig, Yale University, New Haven, Connecticut.

Pulmonary II

Solarium Haddon Hall

7:30 P.M.

Jerome Brody and Barry Fanburg, *Presiding*

1. THE ROLE OF LEUKOCYTE LYSOSOMAL ELASTASE IN THE PATHOGENESIS OF OBSTRUCTIVE LUNG DISEASE. J. R. Rodriguez,* J. E. Seals,* A. Radin,* J. S. Lin,* I. Mandl,* and G. M. Turino,** New York, New York. *page 351A*
2. PATTERN OF INJURY AND PHAGOCYTE FUNCTION IN ELASTASE INDUCED EMPHYSEMA. D. M. Kovnat,* G. L. Snider,** and J. S. Brody, Boston, Massachusetts. *page 349A*
3. EFFECT OF AQUEOUS EXTRACT OF CIGARETTE SMOKE ON THE METABOLISM OF ALVEOLAR MACROPHAGES. B. R. Boynton,* A. S. Khandwala,* and J. B. L. Gee,** New Haven, Connecticut. *page 345A*
4. STEREOLOGIC QUANTIFICATION OF ALTERATIONS IN ALVEOLAR MACROPHAGES RECOVERED FROM OXYGEN TOXIC ANIMALS. G. Huber, H. Schauffler,* D. Levens,* C. Pollack,* W. Taffel,* G. Korman,* M. Hayashi,* B. Gillis,* D. O'Connell, R. Laguarda, and W. Pereira,* Boston, Massachusetts. *page 347A*
5. APPEARANCE OF AN "INTERMEDIATE" EPITHELIAL CELL DURING REPAIR OF ALVEOLAR LINING FOLLOWING CADMIUM AEROSOL INJURY. R. H. Strauss,* K. C. Palmer,* G. L. Snider,** and J. A. Hayes,** Boston, Massachusetts. *page 353A*
6. INTERMEDIATE ALPHA-1-ANTITRYPSIN DEFICIENCY: RELATIONSHIP OF ENVIRONMENT TO RISK OF LUNG DISEASE. J. W. Shigeoka,* W. J. Hall, R. W. Hyde,** R. H. Schwartz, and D. M. Speers,* Rochester, New York. *page 352A*
7. SYNTHESIS OF COLLAGEN IN CULTURED LUNG CELLS. N. Elson, K. Bradley,* A. Hance,* A. Kniazeff,* S. Breul,* A. Horwitz,* and R. Crystal, Bethesda, Maryland. *page 346A*
8. COMPARATIVE ENZYMATIC MATURATION OF POSTNATAL RABBIT BRAIN AND HEART; RELATION TO ORGAN DEVELOPMENT AND RESISTANCE TO HYPOXIA. J. R. Phillips,* J. Theodore, and E. D. Robin,** Stanford, California. *page 351A*
9. CONCENTRATIONS OF ANTIGEN AND ANTIBODY FORMING CELLS IN TWO PULMONARY LYMPHOID TISSUES AFTER INTRAPULMONARY OR INTRAVENOUS IMMUNIZATION. B. Kaltreider, F. Turner,* and M. Chan,* San Francisco, California. *page 348A*
10. COMPARISON OF THE EFFECTS OF ELASTIC AND RESISTIVE LOADING ON MOUTH OCCLUSION PRESSURE AND VENTILATION DURING CO_2 REBREATHING. M. Shekleton,* J. LaFata,* M. Lopata,* M. Evanich, and R. V. Lourenco,** Chicago, Illinois. *page 352A*

Renal and Electrolyte III

Pennsylvania Room II, Haddon Hall

7:30 P.M.

Thomas Andreoli and Barry M. Brenner, *Presiding*

1. URIC ACID SECRETION IN ISOLATED PERFUSED RABBIT KIDNEY TUBULES: COMPARISON OF PROXIMAL CONVOLUTED, PROXIMAL STRAIGHT AND CORTICAL COLLECTING SEGMENTS. A. M. Chonko,* C. M. Lowe,* and J. J. Grantham, Kansas City, Kansas. *page 358A*
2. AMIDE TRANSPORT CHANNELS IN TOAD URINARY BLADDER. S. D. Levine,* R. E. Worthington,* and R. M. Hays,** Bronx, New York. *page 368A*
3. DISTAL CHLORIDE TRANSPORT: EFFECTS OF ACUTE BICARBONATE INFUSIONS AND HYPERCAPNIA. J. F. Seely, Montreal, Quebec, Canada. *page 373A*
4. EFFECT OF D-ALDOSTERONE AND TRIAMTERENE ON THE CORTICAL COLLECTING TUBULE AND THE DISTAL CONVOLUTED TUBULE. J. B. Gross* and J. P. Kokko, Dallas, Texas. *page 363A*
5. SITE OF STIMULATION OF H⁺ SECRETION BY ALDOSTERONE IN TURTLE BLADDER. Q. Al-Awqati, R. Beauwens,* A. Mueller,* and P. R. Steinmetz,** Iowa City, Iowa. *page 354A*
6. MICROPUNCTURE EVIDENCE FOR FILTRATION PRESSURE DISEQUILIBRIUM IN THE DOG. C. E. Ott, G. R. Marchand,* J. A. Diaz-Buxo,* J. L. Cuche, and F. G. Knox, Rochester, Minnesota. *page 371A*
7. ANGIOTENSIN II EFFECTS ON GLOMERULAR PERMEABILITY COEFFICIENT OF THE RAT. R. C. Blantz, San Diego, California. *page 356A*
8. MECHANISM OF DIURETIC RESPONSE TO INCREASED LEFT ATRIAL PRESSURE IN THE ANESTHETIZED DOG. A. de Torrente,* G. Robertson, K. McDonald, and R. Schrier, Denver, Colorado, and Indianapolis, Indiana. *page 359A*

Symposium

"Recent Advances in the Regulation of Antidiuretic Hormone Release"

Moderator: Jay H. Stein

Participants:

1. MECHANISMS OF DIABETES INSIPIDUS. Irwin Singer, University of Pennsylvania, Philadelphia, Pennsylvania.
2. NON-OSMOTIC CONTROL OF RENAL WATER EXCRETION. Robert Schrier, University of Colorado, Denver, Colorado.
3. OSMOLAR REGULATION OF VASOPRESSIN IN MAN. Gary Robertson, University of Indiana, Indianapolis, Indiana.

MEETING FOR AFCR WOMEN

MONDAY, MAY 5, 1975

(See listing under Specialty Clubs, page 176)

ALL PERSONS REGISTERED AT NATIONAL MEETING WELCOME

Program

Eighty-eighth Annual Meeting

THE ASSOCIATION OF AMERICAN PHYSICIANS

Pennsylvania Room, Haddon Hall

Atlantic City, New Jersey

TUESDAY, MAY 6, 1975

MORNING SESSION 9:00 A.M.

General Business Meeting 9:00 A.M.

Presidential Address

David E. Rogers

Scientific Session

David E. Rogers, *Presiding*

1. DIFFUSE FASCIITIS WITH EOSINOPHILIA: A NEW SYNDROME? L. E. Shulman* (Intr. by V. A. McKusick), Baltimore, Maryland. *page 443A*
2. VASOACTIVE INTESTINAL POLYPEPTIDE: ELEVATED PLASMA AND TISSUE LEVELS IN THE WATERY-DIARRHEA SYNDROME DUE TO PANCREATIC AND OTHER TUMORS. S. I. Said* (Intr. by D. W. Seldin), Dallas, Texas. *page 440A*
3. HEPATITIS A VIRUS INFECTION: IDENTIFICATION BY A SPECIFIC IMMUNE ADHERENCE TEST. S. Krugman, New York, New York. *page 445A*
4. PREVENTION OF LETHAL PSEUDOMONAS BACTEREMIA WITH EPIMERASE-DEFICIENT *E. COLI* ANTISERUM. E. J. Ziegler,* H. Douglas,* and A. I. Braude, La Jolla, California. *page 445A*
5. A CONTROLLED CLINICAL TRIAL TO EVALUATE PROTECTED ENVIRONMENT PROPHYLACTIC ANTIBIOTIC PROGRAM IN THE TREATMENT OF ADULT ACUTE LEUKEMIA. E. J. Freireich,* V. Rodriguez,* E. Gehan,* T. Smith,* and G. P. Bodey* (Intr. by R. Rawson), Houston, Texas. *page 446A*
6. THE ROLE OF SUPPRESSOR T CELLS IN THE PATHOGENESIS OF HYPOGAMMAGLOBULINEMIA WITH A THYMOMA. T. A. Waldmann, S. Broder,* M. Durm,* M. Blackman,* R. Krakauer,* and B. Meade,* Bethesda, Maryland. *page 447A*
7. ENHANCEMENT OF T-LYMPHOCYTE DIFFERENTIATION *IN VITRO* BY THYMIC EXTRACTS AFTER BONE MARROW TRANSPLANTATION IN SEVERE COMBINED IMMUNODEFICIENCIES. G. S. Incefy,* L. Boumsell,* J. L. Touraine,* P. L'Esperance,* E. Smithwick,* R. O'Reilly,* and R. A. Good, New York, New York. *page 443A*
8. PROSTAGLANDIN INDUCED BONE RESORPTION BY RHEUMATOID SYNOVIA. D. R. Robinson,* A. H. Tashjian, Jr.,* and L. Levine* (Intr. by A. Leaf), Boston and Waltham, Massachusetts. *page 443A*
9. TWO NEW INDEXES FOR ASSESSING CLINICAL IMPROVEMENT IN ANGINA PECTORIS. A. R. Feinstein and C. K. Wells,* New Haven, Connecticut. *page 436A*
10. PROGRESS IN THE METHODOLOGY FOR ANTENATAL DIAGNOSIS OF THE BETA CHAIN HEMOGLOBINOPATHIES. D. G. Nathan, Boston, Massachusetts. *page 440A*

*By invitation.

**Report on Election of
Officers and New Members**

**Presentation of
The George M. Kober Medal
to Walsh McDermott by
Paul B. Beeson**

**Scientific Session
Lloyd H. Smith, Jr., *Presiding***

11. NATURAL HISTORY OF FAMILIAL MEDULLARY CARCINOMA OF THE THYROID GLAND-PHEOCHROMOCYTOMA SYNDROME AND THE IDENTIFICATION OF PRENEOPLASTIC STAGES BY SCREENING TESTS: A FIVE YEAR REPORT. R. F. Gagel,* K. E. W. Melvin,* A. Tashjian, Jr.,* Z. Feldman,* H. Wolfe,* R. DeLellis,* S. Cervi-Skinner,* and S. Reichlin, Boston, Massachusetts. *page 437A*
12. MALIGNANT HYPERTENSION WITH HYPOKALEMIA IN A PATIENT WITH RENIN-PRODUCING PULMONARY CARCINOMA. J. Genest, J. M. Rojo-Ortega,* O. Kuchel,* R. Boucher,* W. Nowaczynski,* R. Lefebvre,* M. Chretien,* and M. Cantin,* Montreal, Canada. *page 448A*

13. DETECTION, QUANTITATION AND PATHOPHYSIOLOGY OF LUNG SPIDERS. E. D. Robin, B. Horn,* M. L. Goris,* J. Theodore,* A. Van Kessel,* and A. Tilkian,* Stanford, California. *page 448A*
14. CARDIOMYOPATHY AND REGIONAL SCAR IN DIABETES MELLITUS. T. J. Regan,* S. S. Ahmed,* G. E. Levinson,* H. A. Oldewurtel,* M. Ahmad,* and M. M. Lyons* (Intr. by F. P. Chinard), Newark, New Jersey. *page 435A*
15. A PHYSICOCHEMICAL BASIS FOR TREATMENT OF ENTERIC HYPEROXALURIA. D. L. Earnest,* H. E. Williams, and W. H. Admirand,* San Francisco, California. *page 439A*
16. THYROID FAILURE AFTER POTASSIUM IODIDE TREATMENT OF DIFFUSE TOXIC GOITER. L. C. Wood* and F. Maloof* (Intr. by F. C. Wood), Boston, Massachusetts. *page 438A*

**The Distinguished Lecture
"Is Hypertension Essential?"
Grant W. Liddle**

The complete papers presented at the annual meeting of the Association of American Physicians are published in Transactions of the Association of American Physicians which may be obtained from William J. Dornan, Publisher, Collingdale, Pennsylvania 19023.

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