

**Sixty-eighth Annual Meeting THE AMERICAN SOCIETY FOR  
CLINICAL INVESTIGATION**

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AMERICAN SOCIETY FOR  
CLINICAL  
INVESTIGATION

68TH ANNUAL MEETING · INCLUDING PROGRAMS FOR  
THE AMERICAN FEDERATION FOR CLINICAL RESEARCH  
AND THE ASSOCIATION OF AMERICAN PHYSICIANS

1976 PROGRAM

MAY 1-4 · HADDON HALL · ATLANTIC CITY

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Program

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Sixty-eighth Annual Meeting

THE AMERICAN SOCIETY FOR CLINICAL INVESTIGATION

Pennsylvania Room, Haddon Hall

Atlantic City, New Jersey

MONDAY, MAY 3, 1976

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MORNING SESSION 9:00 A.M.

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First Business Session 9:00 A.M.

Presidential Address

Laurence E. Earley

Scientific Session

Laurence E. Earley, *Presiding*

1. CHARACTERIZATION OF ANTI-INSULIN RECEPTOR ANTIBODIES: A CAUSE OF INSULIN-RESISTANT DIABETES IN MAN. J.S. Flier,\* C.R. Kahn\* and J. Roth, Bethesda, Maryland. *page 457A*
2. SOMATOSTATIN AND GLUCAGON IN DIABETES: FAILURE OF GLUCAGON SUPPRESSION TO IMPROVE INTRAVENOUS GLUCOSE TOLERANCE AND EVIDENCE OF AN EFFECT OF SOMATOSTATIN ON GLUCOSE ABSORPTION. J. Wahren\* and P. Felig, Stockholm, Sweden, and New Haven, Connecticut. *page 461A*
3. ALPHA-ADRENERGIC RECEPTORS: IDENTIFICATION BY [<sup>3</sup>H] DIHYDROERGOCRYPTINE BINDING. L.T. Williams\* and R.J. Lefkowitz (Intr. by A.G. Wallace), Durham, North Carolina. *page 431A*
4. A STEROID HORMONE RECEPTOR CAN "TURN ON" TRANSCRIPTION OF A SPECIFIC EUKARYOTIC GENE. R. Schwartz,\* C. Chang,\* W. Schrader,\* and B.W. O'Malley, Houston, Texas. *page 430A*
5. THE EFFECT OF A PEPTIDE INHIBITOR OF ADENYLATE CYCLASE ON CYCLIC ADENOSINE MONOPHOSPHATE-LINKED FUNCTIONS IN CANINE CARDIAC SARCOPLASMIC RETICULUM. M.L. Entman,\* D.C. Lehotay,\* E.P. Borner,\* L.A. Bricker,\* and G.S. Levey, Houston, Texas, and Miami, Florida. *page 419A*
6. HETEROGENEITY OF GENE DEFECTS IN  $\beta$  THALASSEMIA. F. Ramirez,\* B. Luppis,\* R. Gambino,\* S. Musumeci,\* G. Schiliro,\* G. Pizzarelli,\* G. Russo,\* P.A. Marks,\*\* and A. Bank, New York, New York. *page 442A*
7. POSSIBLE ROLE OF T LYMPHOCTYES IN THE PATHOGENESIS OF APLASTIC ANEMIA. W.A. Kagan,\* J.A. Ascensao,\* R.N. Pahwa,\* M.A.S. Moore,\* and R.A. Good,\*\* New York, New York. *page 440A*
8. POLYCYTHEMIA VERA: DEMONSTRATION OF NORMAL AND ABNORMAL STEM CELLS AND CHARACTERIZATION OF THE *IN VITRO* RESPONSE TO ERYTHROPOIETIN. J.F. Prchal,\* J.W. Adamson, S. Murphy,\* L. Steinmann,\* and P.J. Fialkow, Seattle, Washington, and Philadelphia, Pennsylvania. *page 442A*
9. DEFECTIVE LEUKOTAXIS IN CANCER PATIENTS. P.A. Ward, T. Anton,\* and E. Maderazo,\* Farmington and Hartford, Connecticut. *page 463A*
10. MONOCYTES OF BREAST CANCER PATIENTS EXPRESS ANTITUMOR IMMUNITY AS MEASURED BY LEUKOCYTE ADHERENCE INHIBITION IN TEST TUBES. D.M.P. Thomson,\* N. Grosser,\* and J. Marti\* (Intr. by S.O. Freedman), Montreal, Quebec, Canada. *page 463A*
11. SELF-INDUCED LOSS OF CALCITONIN RECEPTORS IN BONES: A POSSIBLE EXPLANATION FOR "ESCAPE." D.R. Wright,\* J.L. Ivey,\* and A.H. Tashjian, Jr.,\* (Intr. by P.R. Larsen), Boston, Massachusetts. *page 461A*
12. THE BIOCHEMICAL BASIS OF OXYGEN TOXICITY IN GRANULOCYTES AND ALVEOLAR MACROPHAGES. M. Rister\* and R.L. Baehner, Indianapolis, Indiana. *page 465A*

\*By invitation.

**Second Business Session**

**Scientific Session**

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| <p>13. EFFECT OF HISTAMINE ON CYCLIC ADENOSINE MONOPHOSPHATE AND CYCLIC GUANOSINE MONOPHOSPHATE <i>IN VIVO</i> IN CANINE LUNGS. D. Barnett,* A. Zbinden,* S. Chesrown,* M. Nisam,* K. Melmon, H. Bourne, and W. Gold, San Francisco, California. <span style="float: right;"><i>page 464A</i></span></p> <p>14. CONTRACTION OF CORONARY ARTERIAL SMOOTH MUSCLE BY A SUBSTANCE RELEASED FROM PLATELETS: EVIDENCE THAT IT IS THROMBOXANE A<sub>2</sub>. E.F. Ellis,* O. Oelz,* L.J. Roberts,* A.S. Nies,* and J.A. Oates, Nashville, Tennessee. <span style="float: right;"><i>page 419A</i></span></p> <p>15. ANTIBODIES REACTING WITH CYTOPLASM OF SUBTHALAMIC AND CAUDATE NUCLEI NEURONS IN CHOREA AND ACUTE RHEUMATIC FEVER. G. Husby,* J.B. Zabriskie,** Z.H. Abdin,* and R.C. Williams, Jr.,** Albuquerque, New Mexico; New York, New York; and Cairo, Egypt. <span style="float: right;"><i>page 447A</i></span></p> <p>16. FUNCTIONAL ANALYSIS OF TWO SUBPOPULATIONS OF HUMAN T CELLS AND THEIR DISTRIBUTION IN IMMUNODEFICIENT PATIENTS. L. Moretta,* S.R. Webb,* C.E. Grossi,* P.M. Lydyard,* and M.D. Cooper, Birmingham, Alabama. <span style="float: right;"><i>page 448A</i></span></p> <p>17. ABSENCE OF AN IMMUNOLOGIC BLOCKING FACTOR IN THE SERUM OF WOMEN WHO</p> | <p>CHRONICALLY ABORT. R.E. Rocklin,* J. Kitzmiller,* C.B. Carpenter, and J.R. David, Boston, Massachusetts. <span style="float: right;"><i>page 449A</i></span></p> <p>18. THE HUMAN GLOMERULAR COMPLEMENT RECEPTOR: ITS ROLE IN IMMUNE-COMPLEX RENAL DISEASE. M.C. Gelfand,* M.L. Shin,* R.B. Nagle,* M.M. Frank, and I. Green,** Washington, D.C.; Baltimore and Bethesda, Maryland. <span style="float: right;"><i>page 467A</i></span></p> <p>19. PRODUCTION OF ANTIBODY AGAINST HUMAN LEUKOCYTIC PYROGEN. C.A. Dinarello,* L. Renfer,* and S.M. Wolff, Bethesda, Maryland. <span style="float: right;"><i>page 452A</i></span></p> <p>20. DUFFY BLOOD GROUP NEGATIVITY AND RESISTANCE TO VIVAX MALARIA. S.J. Mason,* L.H. Miller,* T. Shiroishi,* and J.A. Dvorak (Intr. by W.E. Paul), Bethesda, Maryland. <span style="float: right;"><i>page 453A</i></span></p> <p>21. ELUCIDATION OF THE BIOCHEMICAL BASIS OF ACTION OF CHOLECYSTOKININ. T.P. Conlon,* J. Christophe,* H.T. Shelby,* E.K. Fransden,* and J.D. Gardner, Bethesda, Maryland. <span style="float: right;"><i>page 432A</i></span></p> <p>22. AN ENZYME IN LIVER PLASMA MEMBRANE WHICH CONVERTS BILIRUBIN MONOGLUCURONIDE TO BILIRUBIN DIGLUCURONIDE. P.L.M. Jansen,* J.R. Chowdhury,* E. Fischberg,* and I.M. Arias, New York, New York. <span style="float: right;"><i>page 433A</i></span></p> <p>23. MECHANISM OF THE ELEVATED RENAL CLEARANCE OF AMYLASE: CLEARANCE OF CREATININE IN ACUTE PANCREATITIS. S.G. Johnson,* C. Ellis,* B. Spring,* and M.D. Levitt, Minneapolis, Minnesota. <span style="float: right;"><i>page 433A</i></span></p> |
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**Officers of the American Society for Clinical Investigation**

<p><b>PRESIDENT</b> Laurence E. Earley <i>San Antonio, Texas</i></p>	<p><b>PRESIDENT-ELECT</b> John S. Fordtran <i>Dallas, Texas</i></p>	<p><b>VICE-PRESIDENT</b> Harold J. Fallon <i>Richmond, Virginia</i></p>
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## SYMPOSIUM

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### THE AMERICAN FEDERATION FOR CLINICAL RESEARCH

Presents a Symposium

#### “FUTURE OF MEDICAL SPECIALIZATION: IMPACT OF HEALTH MANPOWER LEGISLATION”

Saturday, May 1, 1976, 3:00 P.M.

Pennsylvania Room II, Haddon Hall

**Moderator:** Donald W. Seldin, The University  
of Texas Southwestern Medical  
School, Dallas, Texas.

**Participants:**

1. THEODORE COOPER, Assistant Secretary for Health, Department of Health Education and Welfare, Washington, D.C.
2. EDMUND D. PELLEGRINO, Chairman, Board of Directors, Yale-New Haven Medical Center, Inc., New Haven, Connecticut.
3. JOHN C. BECK, Professor of Medicine, University of California School of Medicine; Director, Clinical Scholars Program, The Robert J. Wood Johnson Foundation, San Francisco, California.

The purpose of this symposium is to explore the goals of pending health manpower legislation and the impact of this legislation on the training of future medical specialists. The position of the Government in developing this legislation will be presented. The importance of specialization will be put in perspective and a position favoring more general training at the expense of specialization will be presented. Adequate time is planned for discussion of this current topic.

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Program

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Thirty-third Annual Meeting  
**THE AMERICAN FEDERATION FOR CLINICAL RESEARCH**

Pennsylvania Room, Haddon Hall

Atlantic City, New Jersey

SUNDAY, MAY 2, 1976

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GENERAL SESSION

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David Challoner, *Presiding*  
Business Session 8:30 A.M.

Scientific Session 9:00 A.M.

1. INHERITED HUMAN COLLAGEN LYSYL HYDROXYLASE DEFICIENCY: ASCORBIC ACID RESPONSE. L.J. Elsas, R.L. Miller,\* and S.R. Pinnell, Atlanta, Georgia, and Durham, North Carolina. *page 294A*
2. REGULATION OF THE AFFINITY AND CONCENTRATION OF INSULIN RECEPTORS IN MAN. R.S. Bar,\* P. Gorden,\*\* J. Roth,\*\* C.R. Kahn, and P. De Meyts,\* Bethesda, Maryland. *page 269A*
3. EXPRESSION OF A HORMONE REGULATABLE GENE FOLLOWING INJECTION INTO A HETEROLOGOUS CELL. L. Chan,\* P.O. Kohler, and B.W. O'Malley, Houston, Texas. *page 270A*
4. PROTECTION OF THE ISCHEMIC DOG MYOCARDIUM WITH L-CARNITINE. J.D. Folts, A.S. Shug,\* J.R. Koke,\* and N. Bittar, Madison, Wisconsin. *page 217A*
5. A CONTROLLED CLINICAL TRIAL OF COMPLIANCE-IMPROVING STRATEGIES IN PRIMARY HYPERTENSION. D.L. Sackett, R.B. Haynes,\* E.S. Gibson,\* D.W. Taylor,\* B.C. Hackett,\* R.S. Roberts,\* and A.L. Johnson,\* Hamilton, Ontario, Canada. *page 249A*

Presidential Address  
David Challoner

*Intermission*

Scientific Session  
Samuel Thier, *Presiding*

6. CENTRIOLE, MICROTUBULE AND MICROFILAMENT ORIENTATION DURING HUMAN POLY-MORPHONUCLEAR LEUKOCYTE CHEMOTAXIS. H.L. Malech,\* R.K. Root, and J.I. Gallin, Bethesda, Maryland, and New Haven, Connecticut. *page 314A*
7. AN INHIBITOR OF MACROPHAGE CHEMOTAXIS PRODUCED BY NEOPLASMS. R. Snyderman and M.C. Pike,\* Durham, North Carolina. *page 336A*
8. DIAMOND-BLACKFAN SYNDROME: LYMPHOCYTE-MEDIATED SUPPRESSION OF ERYTHROPOIESIS. R. Hoffman,\* E.D. Zanjani, J. Vila,\* R. Zalusky,\*\* J.D. Lutton,\* and L.R. Wasserman,\*\* New York, New York. *page 311A*
9. HB<sub>s</sub>Ag-POSITIVE HEPATITIS: PREDOMINANCE OF T-LYMPHOCYTES IN HEPATIC INFILTRATE. D.J. Miller,\* J.M. Dwyer, and G. Klatskin,\*\* New Haven, Connecticut. *page 289A*
10. ETIOLOGY OF NONGONOCCOCAL URETHRITIS: *CHLAMYDIA TRACHOMATIS* AND *UREAPLASMA UREALYTICUM*. W.R. Bowie,\* E.R. Alexander,\* S-P. Wang,\* J-S L. Lin,\* and K.K. Holmes, Seattle, Washington, and Boston, Massachusetts. *page 341A*

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\*By invitation.

\*\*Senior member, AFRCR.

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Program—Subspecialty Meetings

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Sponsored by

**THE AMERICAN FEDERATION FOR CLINICAL RESEARCH**

Chalfonte-Haddon Hall and LaFayette Hotels

Atlantic City, New Jersey

SATURDAY EVENING, MAY 1, 1976

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Cardiovascular I,† *Carolina Room, Chalfonte*  
Cardiovascular II, *Music Room, Chalfonte*  
Clinical Epidemiology and Health Care Research,†  
*Solarium, Haddon Hall*  
Clinical Nutrition,‡ *Ballroom, Sheraton Seaside*  
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*  
Immunology and Connective Tissue Poster Session, *Exhibit 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.*

‡*Sponsored jointly with the American Society for Clinical Nutrition.*

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Cardiovascular I

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Carolina Room, Chalfonte

7:00 P.M.

Virendra S. Mathur, *Presiding*

1. "REVERSE CORONARY STEAL" INDUCED BY METHOXAMINE FOLLOWING CORONARY ARTERY OCCLUSION IN DOGS. M. Chiariello,\* M.A. Davis,\* and P.R. Maroko, Boston, Massachusetts.  
*page 212A*
2. EARLY DEVELOPMENT OF COLLATERAL VESSELS AND THEIR PHARMACOLOGIC RESPONSE AFTER CORONARY ARTERY LIGATION. H.O. Hirzel,\* E.H. Sonnenblick,\*\* and E.S. Kirk, Bronx, New York.  
*page 223A*

\*By invitation.

\*\*Senior member, AFRC

3. COMPARISON OF NITROGLYCERIN-, NITROPRUSSIDE-, AND PHENTOLAMINE-INDUCED CHANGES IN CORONARY COLLATERAL FUNCTION. N. Capurro,\* K.M. Kent, and S.E. Epstein, Bethesda, Maryland.  
*page 212A*
4. EFFECTS OF SUSTAINED INCREASES IN EXTRACELLULAR POTASSIUM ON CORONARY RESISTANCE IN INTACT DOG HEARTS. R. Shuchleib,\* L. Borda,\* J. Davis,\* and P. Henry, St. Louis, Missouri.  
*page 240A*
5. LOSS OF FUNCTIONAL INTEGRITY OF THE MICROVASCULATURE IN ISCHEMIC MYOCARDIUM. J.P. Connors,\* P.N. West,\* R. Roberts, C.S. Weldon,\* B.E. Sobel, and J.R. Williamson,\* St. Louis, Missouri.  
*page 213A*

6. HEMODYNAMIC AND ANGIOGRAPHIC SIGNIFICANCE OF CORONARY ARTERY STENOSIS. J. Azorin,\* J. Lespérance,\* J. Frijia,\* P. Biemann,\* and M.G. Bourassa,\*\* Montreal, Canada. *page 207A*
7. THE RELATIONSHIP BETWEEN PROGRESSIVE DECREASES IN LOCAL CORONARY PRESSURE AND FLOW AND REGIONAL CONTRACTILE ABNORMALITIES. V.S. Banka, M.M. Bodenheimer, K.B. Ramanathan,\* S. Raina,\* R. Levites, and R.H. Helfant, Philadelphia, Pennsylvania. *page 208A*
8. CONTRASTING EFFECTS OF DOPAMINE AND ISOPROTERENOL ON LOCAL ISCHEMIA. K.B. Ramanathan,\* S. Raina,\* M.M. Bodenheimer, V.S. Banka, and R.H. Helfant, Philadelphia, Pennsylvania. *page 236A*

## Symposium

### “New Concepts in Cardiology”

**Moderator:** Douglas P. Zipes

**Participants:**

1. LESSONS LEARNED FROM MYOCARDIAL INFARCTION RESEARCH UNITS. Charles Rackley, University of Alabama, Birmingham, Alabama.
2. MYOCARDIAL IMAGING. Barry Zaret, Yale University, New Haven, Connecticut.
3. ECHOCARDIOGRAPHY. Harvey Feigenbaum, Indiana University, Indianapolis, Indiana.
4. ELECTROCARDIOGRAPHY. Douglas P. Zipes, Indiana University, Indianapolis, Indiana.

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## Cardiovascular II

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**Music Room, Chalfonte**

**7:00 P.M.**

**Allyn Mark, Presiding**

1. REDUCED CYCLIC ADENOSINE MONOPHOSPHATE AND ELEVATED CYCLIC GUANOSINE MONOPHOSPHATE IN INFARCTED MYOCARDIUM FOLLOWING CORONARY LIGATION. J. Wikman-Coffelt,\*\* T. Kamiyama, R.R. Miller, A.F. Salel, and D.T. Mason,\*\* Davis, California. *page 246A*
2. ISCHEMIA INDUCED DISSOCIATION BETWEEN THE LENGTH AND VELOCITY OF MYOCARDIAL FIBER SHORTENING IN CONSCIOUS DOGS. M. Pagani,\* S.F. Vatner, H. Baig,\* and E. Braunwald,\*\* Boston and Southboro, Massachusetts. *page 234A*
3. ABNORMAL MITOCHONDRIAL OXIDATIVE PHOSPHORYLATION OF ISCHEMIC MYOCARDIUM REVERSED BY ETHYLENEDIAMINE-TETRAACETIC ACID. C.F. Peng,\* J.J. Kane,\* M.L. Murphy,\*\* and K.D. Straub, Little Rock, Arkansas. *page 235A*
4. INTENSIFICATION AND ACCELERATION OF ISCHEMIC CARDIAC INJURY DUE TO GLYCOLYTIC BLOCKADE. C.S. Apstein, M. Mueller,\* L. Hagopian,\* and W.B. Hood, Jr.,\*\* Boston, Massachusetts. *page 206A*
5. METABOLIC SUPPORT OF VENTRICULAR FUNCTION IN PATIENTS WITH MYOCARDIAL INFARCTION BY AN INFUSION OF GLUCOSE-INSULIN-POTASSIUM. J.A. Mantle, R.O. Russell,\*\* W.J. Rogers, H.G. McDaniel, and C.E. Rackley,\*\* Birmingham, Alabama. *page 228A*
6. ENHANCED SENSITIVITY TO PRESSOR AGENTS BY INDOMETHACIN IN NORMAL MAN. G.P. Guthrie, Jr.,\* F.H. Messerli,\* O. Kuchel,\*\* and J. Genest,\*\* Montreal, Quebec, Canada. *page 220A*
7. VENTRICULAR HYPERTROPHY: RELATIVE RATES OF PROGRESSION AND REGRESSION. M.L. Marcus,\* D.L. Eckberg,\* J. Braxmeier, and F.M. Abboud,\* Iowa City, Iowa. *page 229A*
8. HYPERTHERMIC INSULT TO ISCHEMIC MYOCARDIUM: IMPLICATIONS OF FEVER AS AN ENERGY DRAINING PROCESS IN MYOCARDIAL INFARCT. A.J. Liedtke and H.C. Hughes, Hershey, Pennsylvania. *page 227A*



**Solarium, Haddon Hall**

**7:00 P.M.**

**Duke Baker and Steve Schroeder, *Presiding***

1. IMPACT OF NEW TECHNOLOGY—THE EMI SCANNER. W. Knaus\* and S. Schroeder, Washington, D.C. *page 298A*
2. THE SPECTRUM OF BLOOD PRESSURE ELEVATION IN THE YOUNG ADULT POPULATION: THE UNRECOGNIZED MAGNITUDE OF THE PROBLEM. A.F. Salel, C. Lykke,\* C.K. Clifford,\* J. Kraus,\* T.Y. Cooper,\* N.O. Borhani,\*\* and D.T. Mason,\*\* Davis, California. *page 249A*
3. DECISION ANALYSIS IN ESTIMATING PROBABILITIES OF IRON AND VITAMIN DEFICIENCY STATES IN ANEMIC PATIENTS. P. Oranburg\* and P.F. Griner,\*\* Rochester, New York. *page 248A*
4. PREDICTION OF DEATH AND BACTERIAL INFECTION DURING HOSPITALIZATION USING TOTAL AND DIFFERENTIAL WHITE BLOOD CELL COUNTS, AGE, AND UNDERLYING DISEASE: DERIVATION OF OUTCOME-RELATED REFERENCE VALUES. J. Freeman and B.A. Rosner, Boston, Massachusetts. *page 248A*
5. POST TROHOC ERGO PROPTER TROHOC: PROBLEMS, CONFLICTING RESULTS, AND CRITERIA FOR SCIENTIFIC STANDARDS IN RETROSPECTIVE "CASE-CONTROL" RESEARCH. R.I. Horwitz\* and A.R. Feinstein,\*\* New Haven, Connecticut. *page 248A*
6. A RANDOMIZED CONTROLLED STUDY OF THE EDUCATIONAL EFFECTS OF AN ALGORITHM SYSTEM. J.H. Wasson,\* H.C. Sox, Jr.,\* and R.D. Garcia\* (Intr. by H.R. Holman), Stanford, California. *page 301A*
7. EXERCISE ELECTROCARDIOGRAPHY AS A SCREENING PROCEDURE FOR CORONARY AR-

TERY DISEASE: PREVALENCE OF ISCHEMIC RESPONSE, ASSOCIATION WITH CORONARY RISK FACTORS AND RELATION TO PROGNOSIS. E.A. Amsterdam, J.H. Wilmore,\* J. Davis,\* A. DeMaria, and D.T. Mason,\*\* Davis, California. *page 248A*

8. "SOCIOECONOMIC STATUS" AND REFERRAL BIAS IN CANCER MORTALITY. C.K. Wells\* and A.R. Feinstein, New Haven, Connecticut. *page 250A*

**Symposium**

**"Bench Research for Primary Care:  
Fact or Fantasy?"**

**Moderators:** Thomas L. Delbanco and John Noble

**Participants:**

1. TEACHING PRIMARY CARE—THE STAGE IS SET. Thomas L. Delbanco, Harvard University, Boston, Massachusetts.
2. SERIAL BIOPSIES OF THE PRACTICES AND HABITS OF MEDICAL HOUSE OFFICERS AND PRACTICING PRIMARY CARE INTERNISTS. Carl B. Lyle, David S. Citron, and William Applegate, University of North Carolina, Charlotte, North Carolina.
3. EVALUATION METHODS USED BY PATIENTS. Robert S. Lawrence, Harvard University, Boston, Massachusetts.
4. A FAMILY PHYSICIAN LOOKS AT THE EPIDEMIOLOGY OF ANGINA PECTORIS. Jack H. Medalie, Case Western Reserve University, Cleveland, Ohio.
5. THE DIMENSIONS OF CLINICAL INVESTIGATION IN PRIMARY CARE. John Noble, University of North Carolina, Chapel Hill, North Carolina.

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**Clinical Nutrition**

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**Ballroom, Sheraton Seaside**

**7:00 P.M.**

**T.K. Li and Jack Metcoff, *Presiding***

1. INFLUENCE OF TYPE OF CARBOHYDRATE ON THE TRIGLYCERIDE RESPONSE TO HIGH CARBOHYDRATE DIETS IN DIABETIC MEN. J.W. Anderson, Lexington, Kentucky. *ASCN page 498A*
2. INCREASED PLASMA TRIIODOTHYRONINE AND CALORIC INEFFICIENCY IN EXPERIMENTAL PROTEIN MALNUTRITION. O.L. Tulp,\* E.S. Horton,\*\* E.D. Tyzbit,\* E. Danforth, Jr., and

J. Bollinger,\* Burlington, Vermont, and Boston, Massachusetts. *AFCR page 371A*

3. MILK INTOLERANCE IN ALCOHOLICS. W. Perlow,\* E. Baraona,\* and C.S. Lieber, Bronx and New York, New York. *ASCN page 503A*
4. PROTEIN-CALORIE MALNUTRITION IN A MAYAN COMMUNITY: EFFECTS ON NEUTROPHIL FUNCTION AT BIRTH. G.T. Keusch,\* J.J. Urrutia,\* R. Fernandez,\* and I.B. Kovacs\* (Intr. by R. Zalusky\*\*), New York, New York, and Guatemala City, Guatemala. *AFCR page 298A*

5. MATERNAL NUTRITION AND LEUKOCYTE METABOLISM AT MIDPREGNANCY RELATED TO BABY/PLACENTAL SIZE AT TERM. J. Metcalf, M. Mameesh,\* G. Jacobson,\* P. Costiloe,\* W. Crosby,\* H. Sandstead, and P. McClain, Oklahoma City, Oklahoma; Grand Forks, North Dakota; and Beltsville, Maryland. *ASCN page 502A*
6. IRON DEPOSITION IN THE HEART: EVALUATION BY ECHOCARDIOGRAPHY. W.L. Henry, A.W. Nienhuis, V.C. Canale, and M. Weiner,\* Bethesda, Maryland, and New York, New York. *AFCR page 222A*
7. RAT PLASMA PREALBUMIN: CHARACTERIZATION AND NUTRITIONAL REGULATION. M. Navab,\* A.K. Mallia,\* and D.S. Goodman, New York, New York. *ASCN page 503A*
8. INHIBITION OF INTESTINAL IRON ABSORPTION BY LAUNDRY STARCH. F.B. Thomas, J.M. Falko,\* and K. Zuckerman,\* Columbus, Ohio. *AFCR page 292A*

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## Endocrinology I

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### Rutland Room, Haddon Hall

7:00 P.M.

Laurence S. Jacobs and Peter Kohler, *Presiding*

1. DDAVP (1-DESAMINO-8-D-ARGININE-VASOPRESSIN)-KINETICS OF PROLONGED ANTI-DIURESIS IN CENTRAL DIABETES INSIPIDUS. A.G. Robinson, S.M. Seif, F.F. Ciarochi,\* T.V. Zenser, and B.B. Davis, Pittsburgh, Pennsylvania. *page 277A*
2. ANTIDIURETIC MECHANISM OF ISOPROTERENOL. S.K. Webster and N. Beck,\*\* Pittsburgh, Pennsylvania, and San Antonio, Texas. *page 280A*
3. DISSOCIATION OF PLASMA AND CEREBROSPINAL FLUID PROLACTIN HETEROGENEITY. R.M. Jordan\* and J.W. Kendall,\*\* Portland, Oregon. *page 273A*
4. PARTIAL CHARACTERIZATION OF AN AMNIOTIC FLUID PROTEIN REACTIVE WITH SOMATOMEDIN RECEPTORS. R.H. Chochinov,\* I.K. Mariz,\* and W.H. Daughaday,\*\* St. Louis, Missouri. *page 270A*
5. IDENTIFICATION OF A GROWTH PEPTIDE RECEPTOR IN CULTURED HUMAN FIBROBLASTS. M.M. Rechler, S.P. Nissley, J.M. Podskalny,\* A.C. Moses,\* and L. Fryklund,\* Bethesda, Maryland, and Stockholm, Sweden. *page 276A*
6. A PROTAMINE LIGAND EXCHANGE ASSAY FOR NUCLEAR BOUND ESTROGEN RECEPTOR. D.T. Zava,\* N. Harrington,\* and W.L. McGuire, San Antonio, Texas. *page 281A*
7. "BIG" BIOACTIVE AND IMMUNOREACTIVE " $\beta$ -MELANOCYTE STIMULATING HORMONES IN HUMAN PLASMA, PITUITARY AND TUMOR TISSUE. K. Tanaka,\* C.D. Mount,\* W.E. Nicholson,\*\* and D.N. Orth,\*\* Nashville, Tennessee. *page 279A*
8. GONADOTROPIN-RELEASING HORMONE STIMULATES HUMAN CHORIONIC GONADOTROPIN RELEASE IN TROPHOBLASTIC DISEASE. C. Macaron,\* N. Freinkel,\*\* J. Brewer,\* J.F. Wilber, B. Kahan, and B. Halpern,\* Chicago, Illinois. *page 274A*

### Symposium

#### "Hypothalamic Hormones: New Central Nervous System Loci and New Functions"

Moderator: John F. Wilber

#### Participants:

1. PRESENCE AND DISTRIBUTION OF HYPOTHALAMIC PEPTIDES IN THE CENTRAL NERVOUS SYSTEM. Michael J. Brownstein, National Institutes of Health, Bethesda, Maryland.
2. THYROTROPIN RELEASING HORMONE BINDING TO SPECIFIC CENTRAL NERVOUS SYSTEM MEMBRANE RECEPTORS. David R. Burt, Johns Hopkins University, Baltimore, Maryland.
3. HYPOTHALAMIC PEPTIDE ACTIONS UPON SINGLE RAT NEURONS USING MICROIONTOPHORESIS. Leo Renaud, Montreal General Hospital, Montreal, Quebec.

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## Gastroenterology I

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### Pennsylvania Room II, Haddon Hall

7:00 P.M.

William Admirand and Jon Isenberg, *Presiding*

1. DIRECT DEMONSTRATION OF GASTRIN SYNTHESIS BY ANTRAL MUCOSAL EXPLANTS IN ORGAN CULTURE. R.F. Harty,\* J.C. Van der Vijver,\* and J.E. McGuigan,\*\* Gainesville, Florida. *page 285A*
2. DIARRHEIC FACTORS IN NON- $\beta$  ISLET CELL TUMOR OF THE PANCREAS. H.H. Tai,\* W.Y. Chey,\*\* R. Escoffery,\* and J. Hendricks,\* Rochester, New York. *page 292A*
3. LITHIUM INHIBITS INTESTINAL ION SECRETION. J. Dobbins\* and H.J. Binder, New Haven, Connecticut. *page 283A*
4. THE MOTILITY COMPONENT OF CHOLERA: A PROSTAGLANDIN F<sub>2</sub> $\alpha$  RESPONSE. J.R. Mathias\* and J.L. Martin\* (Intr. by P.P. Toskes), Gainesville, Florida. *page 289A*
5. RELATIONSHIP OF ABDOMINAL AND CERVICAL VAGAL ACTIVITY ON LOWER ESOPHAGEAL SPHINCTER FUNCTION. S. Matarazzo,\* W. Snape, Jr., J. Ryan,\* and S. Cohen, Philadelphia, Pennsylvania. *page 288A*
6. EFFECT OF PROGRESSIVE SYSTEMIC SCLEROSIS ON ELECTRICAL AND MOTOR ACTIVITY OF THE INTERNAL ANAL SPHINCTER. M. Cerulli,\* P. Nikoomanesh, and M.M. Schuster, Baltimore, Maryland. *page 282A*
7. EFFECT OF CATECHOLAMINE DEPLETION ON OPOSSUM ESOPHAGEAL SMOOTH MUSCLE. D. de Carle,\* M. Brody, and J. Christensen, Iowa City, Iowa. *page 283A*
8. EFFECTS OF INTRA-ARTERIAL UROKINASE INFUSION ON BLOOD FLOW, CLOTTING, AND FIBRINOLYSIS IN A CANINE MODEL OF SUPERIOR MESENTERIC ARTERIAL THROMBOSIS. N.J. Gurl, W. Callahan, II,\* and H.V. Hufnagel, Washington, D.C. *page 285A*
9. UROGASTRONE AND EPIDERMAL GROWTH FACTOR SHARE A COMMON RECEPTOR IN CULTURED HUMAN FIBROBLASTS. M.D. Hollenberg and H. Gregory,\* Baltimore, Maryland, and Macclesfield, United Kingdom. *page 286A*
10. THE ROLE OF LUMINAL CONTENTS IN INTESTINAL ADAPTATION. D.M. McCarthy, J.A. Nicholson,\* and Y.S. Kim,\*\* San Francisco, California. *page 289A*
11. SPECIES DIFFERENCES IN PASSIVE ABSORPTION FROM THE SMALL INTESTINE. J.H. Bond, A.B. Micflikier,\* and M.D. Levitt, Minneapolis, Minnesota. *page 281A*

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## Hematology I

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### Windsor Room, Haddon Hall

7:00 P.M.

Robert Allen and Martin Cline, *Presiding*

1. DIPHENYLHYDANTOIN-INDUCED NEUTROPENIA: *IN VITRO* EVIDENCE FOR A DIRECT TOXIC EFFECT ON MARROW PRECURSOR CELLS. J.H. Fitchen, G.C. Bagby,\* and J.W. Linman,\*\* Portland, Oregon. *page 307A*
2. INDUCTION OF SPLENIC LEUKOPOIESIS. D.W. Golde and M.J. Cline,\*\* Los Angeles, California. *page 309A*
3. THE ISOLATION AND CHARACTERIZATION OF A COLONY STIMULATING FACTOR FROM HUMAN LUNG. S.S. Fojo,\* M.C. Wu,\* M.A. Gross,\* and A.A. Yunis, Miami, Florida. *page 307A*
4. LACTOFERRIN—A PROTEIN MARKER FOR NEUTROPHILS. R.M. Bennett and T. Kokocinski,\* Chicago, Illinois. *page 303A*
5. DISSIMILARITY OF *IN VITRO* COLONY-FORMING CELLS AND ERYTHROCYTE-ENHANCED COLONY-FORMING CELLS. M.A. Kolitsky\* and P.A. Chervenick,\*\* Pittsburgh, Pennsylvania. *page 312A*
6. VISUALIZING THE MARROW GRANULOCYTE RESERVE. R.A. Joyce and D.R. Boggs, Pittsburgh, Pennsylvania. *page 312A*
7. EFFECT OF CYTOCHALASIN B AND COLCHICINE ON HUMAN MONOCYTE FUNCTION. J. Rinehart\* and T. Boulware\* (Intr. by R. MacDermott), Washington, D.C., and Kansas City, Missouri. *page 317A*
8. EFFECT OF C3b INACTIVATOR ON MACROPHAGE BOUND C3b COATED ERYTHROCYTES. A.D. Schreiber and P. McDermott,\* Philadelphia, Pennsylvania. *page 319A*

**National Blood Club**

**9:00 P.M.**

**"The Red Cell Membrane"**

**Moderator:** Wendell F. Rosse

**Participants:**

1. THE MOLECULAR ARRANGEMENT OF PROTEINS IN THE RED CELL MEMBRANE. Vincent Marchesi, Yale University, New Haven, Connecticut.
2. THE RED CELL MEMBRANE: DEFORMABILITY, FRAGMENTATION, AND HEMOLYSIS. Evan A. Evans, Duke University, Durham, North Carolina.
3. FLUID PROPERTIES OF SURFACE MEMBRANES: BIOPHYSICAL CLINICAL CORRELATES. Richard Cooper, University of Pennsylvania, Philadelphia, Pennsylvania.
4. THE CONSEQUENCE OF MEMBRANE CHANGES. Marcel Bessis, Paris, France.

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**Immunology and Connective Tissue I**

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**Pennsylvania Room I**

**7:00 P.M.**

**Michael Frank and Daniel Stechschulte, Presiding**

1. COMPLEMENT ACTIVATION BY ANTI-Rh ANTIBODY: EVIDENCE FOR BIOLOGIC FUNCTION VIA C3d. C.J. Jaffe,\* J.P. Atkinson, M.H. McGinness,\* and M.M. Frank, Bethesda, Maryland. *page 330A*
2. LUPUS BAND TEST: CORRELATION OF IMMUNOGLOBULIN CLASS DEPOSITION AND SERUM ANTIBODIES TO SINGLE STRANDED DEOXYRIBONUCLEIC ACID, AND OTHER NUCLEAR AND CYTOPLASMIC AUTOANTIGENS. T.T. Provost and M. Reichlin, Buffalo, New York. *page 335A*
3. SOLUBLE COMPLEXES IN SERA OF PATIENTS WITH GLOMERULONEPHRITIS: RELATIONSHIP TO AGE AND GLOMERULAR LOCALIZATION OF ANTIGLOBULIN. R.D. Rossen, M.A. Reisberg,\* W.N. Suki, F.X. Schloeder,\*\* L.L. Hill,\*\* and G. Eknoyan, Houston, Texas. *page 336A*
4. QUANTITATION OF PRECIPITATING ANTIBODIES TO CERTAIN SOLUBLE NUCLEAR ANTIGENS IN SYSTEMIC LUPUS ERYTHEMATOSUS AND THEIR CONTRIBUTION TO HYPERGAMMAGLOBULINEMIA. P.J. Maddison\* and M. Reichlin, Buffalo, New York. *page 332A*
5. CLEARANCE OF IMMUNOSPECIFIC PARTICLES FROM THE CIRCULATION OF MAN: STUDIES IN PRIMARY BILIARY CIRRHOSIS, CHRONIC ACTIVE HEPATITIS, AND ALCOHOLIC CIRRHOSIS. C.J. Jaffe,\* J.M. Vierling,\* E.A. Jones,\* and M.M. Frank, Bethesda, Maryland. *page 330A*
6. UPTAKE OF INTRAVENOUSLY INFUSED PREFORMED IMMUNE COMPLEXES BY RENAL GLOMERULI AND RENAL NONGLOMERULAR TISSUE. L.A. Hebert, C.L. Allhiser,\* S.M. Koethe,\* and G.E. Rodey, Milwaukee, Wisconsin. *page 329A*
7. LINKAGE OF FACTOR B, C2 DEFICIENCY, AND HLA, AND ORDERING OF GENES ON CHROMOSOME SIX. D. Raum,\* D. Glass,\* C.B. Carpenter,\*\* C.A. Alper,\*\* and P.H. Schur,\*\* Boston, Massachusetts. *page 335A*
8. GENETIC, OPSONIC, AND BACTERICIDAL STUDIES IN A C2 DEFICIENT FAMILY. M.M. Glovsky,\* G. Opelz,\* and P.I. Terasaki\* (Intr. by F.P. Quismorio), Los Angeles, California. *page 327A*
9. COMPLEMENT-MEDIATED ULTRASTRUCTURAL MEMBRANE LESIONS; REQUIREMENT FOR TERMINAL COMPONENTS. C.H. Packman,\* S.I. Rosenfeld,\* R.I. Weed,\*\* and J.P. Leddy,\*\* Rochester, New York. *page 334A*
10. C2 AUGMENTATION OF THE C3 ACTIVATING FACTOR OF PARTIAL LIPODYSTROPHY. R.H. McLean\* and S. Nilson\* (Intr. by L. Hoyer), Farmington, Connecticut. *page 332A*

**Exhibit Hall**  
**7:00-9:00 P.M.**

1. THE INFLAMMATORY RESPONSE AND RESISTANCE TO ENDOTOXIN (LPS) IN MICE. G. Moeller,\* L. Terry,\* J. Hunter,\* and R. Snyderman, Durham, North Carolina. *page 333A*
2. SOLID PHASE RADIOIMMUNOASSAY FOR DETECTION OF SERUM AUTOANTIBODIES IN SYSTEMIC LUPUS ERYTHEMATOSUS. K.O. Smith,\* J.T. Harrington, Jr., and W.D. Gehle,\* San Antonio, Texas. *page 336A*
3. FALSE POSITIVE "NATIVE-DEOXYRIBONUCLEIC ACID" BINDING BY NON-SYSTEMIC LUPUS ERYTHEMATOSUS SERA. M.E. Medof, J. Locker,\* R.M. Bennett, S. Sukhupunyaraksa,\* and M. Hausknecht,\* Chicago, Illinois. *page 332A*
4. CYTOTOXIC ANTIBODIES BEFORE AND AFTER RENAL TRANSPLANTATION: CORRELATION OF GRAFT SUCCESS. J.J. Curtis,\* W.V. Miller, B.A. Lucas, and R.G. Luke, Lexington, Kentucky. *page 326A*
5. IMPAIRED B LYMPHOCYTE ACTIVITY IN SYSTEMIC LUPUS ERYTHEMATOSUS. A.M. Bobrove and P. Miller,\* Farmington and Newington, Connecticut. *page 325A*
6. THE EFFECTS OF IMMUNOSUPPRESSANTS ON T AND B LYMPHOCYTES. A. Winkelstein, Pittsburgh, Pennsylvania. *page 338A*
7. COMMON HLA-D ANTIGEN IN PATIENTS WITH PROGRESSIVE SYSTEMIC SCLEROSIS. A.G. DiBartolomeo,\* B.S. Rabin,\* and G.P. Rodnan\*\* (Intr. by E.B. Flink), Morgantown, West Virginia, and Pittsburgh, Pennsylvania. *page 326A*
8. EMERGENCE OF INSULIN RECEPTORS UPON ALLOIMMUNE T CELLS. T.B. Strom, J.H. Helderman, M.D. Hollenberg, and C.B. Carpenter,\*\* Boston, Massachusetts, and Baltimore, Maryland. *page 337A*
9. HUMAN ANTIBODY-DEPENDENT CELLULAR CYTOTOXICITY: DIFFERENTIAL INTERACTION WITH EFFECTOR CELL POPULATIONS BY HOMOLOGOUS AND HETEROLOGOUS ANTIBODY. S.R. Kanner,\* M.A. Bookman,\* and D.M. Bull,\*\* Boston, Massachusetts. *page 330A*
10. SALIVARY SECRETORY COMPONENT DEFICIENCY AND FIBRINOLYTIC SYSTEM ABNORMALITY IN BEHCET'S DISEASE. N.I. Abdou, J. Hebert,\* E. Pascual,\* E.T. Carroll,\* H.R. Schumacher, M. Miller,\* R.W. Colman, and M.A. South, Kansas City, Kansas, and Philadelphia, Pennsylvania. *page 324A*
11. LYMPHOTOXIN SECRETION *IN VITRO* AS A MEASURE OF IMMUNOCOMPETENCE IN CANCER PATIENTS: A POSSIBLE CORRELATION WITH PROGNOSIS. J.A. Stratton\* and P.E. Byfield (Intr. by L. Sieger), Torrance, California. *page 337A*
12. LYMPHOCYTE REACTIVITY IN UNTREATED PATIENTS WITH CHRONIC LYMPHOCYTIC LEUKEMIA: ABILITY OF T CELL ENRICHED FRACTIONS TO RESPOND TO ALLOGENEIC AND AUTOLOGOUS B CELL ENRICHED FRACTIONS. J.B. Smith, R. Knowlton,\* and L.S. Koons,\* Philadelphia, Pennsylvania. *page 336A*
13. MODIFICATION OF RESPONSES OF HUMAN NEUTROPHILS TO MONOSODIUM URATE CRYSTALS BY COATING OF CRYSTALS WITH SERUM PROTEINS. F. Kozin,\* J.L. Skosey, J. May,\* and D.C. Chow,\* Milwaukee, Wisconsin, and Chicago, Illinois. *page 331A*
14. INDUCTION OF ARTHRITIS IN RABBITS BY PURIFIED CELL DERIVED CHEMOTACTIC FACTOR: ROLE OF CHEMOTAXIS AND VASCULAR PERMEABILITY. I. Spilberg, D. Rosenberg,\* and B. Mandell,\* St. Louis, Missouri. *page 337A*
15. MONOCYTES IN INFLAMMATION: ELABORATION OF TOXIC OXYGEN BYPRODUCTS IN A MODEL OF IMMUNE COMPLEX DISEASE. R.B. Johnston, Jr., J.E. Lehmeier,\* and L.A. Guthrie,\* Birmingham, Alabama. *page 330A*

Pennsylvania Room III, Haddon Hall

7:00 P.M.

Sherwood Gorbach and  
Charles Smith, *Presiding*

1. SERUM IMMUNOGLOBULIN A AND SUSCEPTIBILITY TO MENINGOCOCCAL DISEASE. J.M. Griffiss and M.A. Bertram,\* Washington, D.C.  
*page 344A*
2. ACUTE DIARRHEA IN U.S. STUDENTS ATTENDING A MEXICAN UNIVERSITY. H. DuPont, J. Olarte,\* D. G. Evans,\* L. Pickering, G. Haynes,\* B. Portnoy,\* D.J. Evans, Jr.,\* and R. Conklin,\* Houston, Texas, and Mexico City, Mexico. *page 342A*
3. CHEMILUMINESCENCE BY GRANULOCYTES: ROLE OF MYELOPEROXIDASE, SINGLET OXYGEN AND SUPEROXIDE ANION. H. Rosen\* and S.J. Klebanoff,\*\* Seattle, Washington. *page 353A*
4. THE SELECTIVE MOBILIZATION OF SPECIFIC GRANULES BY HUMAN NEUTROPHILS DURING ADHERENCE *IN VITRO* AND DURING EXUDATION *IN VIVO*. D.G. Wright and J.I. Gallin, Bethesda, Maryland. *page 355A*
5. THE EFFECT OF SPLENECTOMY ON PHAGOCYTOSIS OF *STREPTOCOCCUS PNEUMONIAE* TYPE II IN INFANT SPRAGUE-DAWLEY RATS AND THE INFLUENCE OF PNEUMOCOCCAL VACCINE IN THIS SYSTEM. A.J. Provisor,\* J.M. Allen,\* and R.L. Baehner,\*\* Indianapolis, Indiana. *page 351A*
6. CELL-MEDIATED CYTOTOXICITY IN MUCOCUTANEOUS INFECTIONS WITH HERPES SIMPLEX VIRUS, TYPES 1 AND 2. R. Reichman,\* R. Dolin, M. Vincent,\* and A.S. Fauci, Bethesda, Maryland. *page 352A*
7. INTERFERON MOLECULES IN HUMAN BIOLOGICAL FLUIDS: RELATION OF THEIR STRUCTURAL CHARACTERISTICS TO THEIR CELLULAR SOURCE. G.E. Panagos,\* J.A. O'Malley,\* and W.A. Carter, Buffalo, New York. *page 351A*
8. CROSS-REACTIVITY OF RABBIT ANTIBODIES TO *STREPTOCOCCUS MUTANS* WITH HUMAN HEART TISSUE AND THE SEROTYPE SPECIFIC ANTIGENS OF *STREPTOCOCCUS MUTANS*. R. Arnold,\* J. McGhee,\* and L. Robinson\* (Intr. by J.C. Bennett), Birmingham, Alabama. *page 339A*

### Symposium

#### "New Perspectives on Anaerobes"

Moderator: Sherwood L. Gorbach

#### Participants:

1. LESSONS FROM AN ANIMAL MODEL OF ANAEROBIC INFECTIONS. John G. Bartlett, Tufts University, Boston, Massachusetts.
2. IMMUNOCHEMISTRY AND VIRULENCE OF *BACTEROIDES FRAGILIS*. Dennis Kasper, Channing Laboratory, Harvard Medical School, Boston, Massachusetts.
3. METABOLIC ACTIVITY OF ANAEROBES RELATING TO DRUGS AND CARCINOGENS. Peter Goldman, Harvard Medical School, Boston, Massachusetts.

**Vernon Room, Haddon Hall**

**7:00 P.M.**

**Mayer B. Davidson and Joseph L. Goldstein,  
Presiding**

1. ACTIVATION OF PROTEIN KINASE IN RENAL CORTEX BY PARATHYROID HORMONE AND GLUCAGON: SPECIFICITY OF ENZYME TRANSLOCATION. P.A. Craven\* and F.R. DeRubertis (Intr. by A.S. Blumentals), Pittsburgh, Pennsylvania. *page 359A*
2. DIFFERENCES IN PARATHYROID HORMONE METABOLISM BETWEEN LIVER AND KIDNEY. K. Martin,\* K. Hruska, A. Greenwalt,\* S. Klahr, and E. Slatopolsky, St. Louis, Missouri. *page 365A*
3. PROSTAGLANDIN MEDIATED HYPERCALCEMIA IN THE VX<sub>2</sub> CARCINOMA-BEARING RABBIT. H.W. Seyberth, W.C. Hubbard,\* J.L. Morgan,\* B.J. Sweetman,\* and J.A. Oates, Nashville, Tennessee. *page 370A*
4. SUCROSE POLYESTER: EFFECTS ON FECAL CHOLESTEROL, TOTAL NEUTRAL STEROL, AND FATTY ACIDS. R.W. Fallat, C.J. Glueck, F. Mattson,\* T.T. Ishikawa,\* and J. Brazier,\* Cincinnati, Ohio. *page 360A*
5. THE HEPATIC SECRETION OF APOPROTEINS A-I and B IN THE RAT. J.L. Witztum\* and G. Schonfeld, St. Louis, Missouri. *page 373A*
6. HYPERTRIGLYCERIDEMIA IN HEMODIALYSIS PATIENTS: DUAL DEFECT OF ADIPOSE TISSUE LIPOPROTEIN LIPASE. A. Goldberg, D. Sherrard, and J. Brunzell, Seattle, Washington. *page 361A*
7. LOW DENSITY LIPOPROTEIN KINETICS IN TYPE IV AND TYPE V HYPERLIPOPROTEINEMIA. J.G. Brook,\* H.A. Feldman,\* and R.S. Lees, Boston and Cambridge, Massachusetts. *page 357A*
8. EFFECT OF POLYUNSATURATED VERSUS SATURATED FAT ON LOW DENSITY LIPOPROTEIN METABOLISM IN NORMAL SUBJECTS. D. Yeshurun,\* A.M. Gotto, Jr., and O.D. Taunton, Houston, Texas. *page 373A*
9. EFFECTS OF RAPID DEPLETION OF PLASMA PHENYLALANINE AND TYROSINE ON SLEEP AND BEHAVIOR. P.L. Poffenbarger, E.S. Barratt,\* P.L. Adams,\* R.R. Fritz,\* and C.W. Abell,\* Galveston, Texas. *page 367A*
10. CYCLIC GUANOSINE MONOPHOSPHATE METABOLISM IN NEONATAL KIDNEY GROWTH. D. Schlondorff,\* H. Weber, and W. Trizna,\* Bronx, New York. *page 369A*

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Oncology

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**Garden Room, Haddon Hall**

**7:00 P.M.**

**William Kremer and B.G. Leventhal, Presiding**

1. GLUCOCORTICOID RECEPTORS IN CHILDHOOD ACUTE LYMPHOCYTIC LEUKEMIA. G. Konior,\* M. Lippman, G. Johnson,\* and B. Leventhal, Bethesda, Maryland. *page 377A*
2. BINDING OF BENZO(a)PYRENE METABOLITES TO DEOXYRIBONUCLEIC ACID *IN VITRO* CATALYZED BY HUMAN LYMPHOCYTES. A.R. Boobis,\* D.W. Nebert, and S.A. Atlas,\* Bethesda, Maryland. *page 374A*
3. THE PATHOGENESIS OF METHOTREXATE NEPHROTOXICITY. S. Pitman\* and E. Frei, III,\*\* Boston, Massachusetts. *page 380A*
4. GRANULOCYTE TRANSFUSIONS IN ACUTE LEUKEMIA. J.B. Alavi,\* R.K. Root, A.E. Evans,\* I. Djerassi,\* D. Guerry,\* A.D. Schreiber, J. Shaw,\* and R.A. Cooper, Philadelphia, Pennsylvania. *page 373A*
5. INTRALESIONAL INJECTION OF METHANOL EXTRACTION RESIDUE OF BCG IN METASTATIC MELANOMA. S.E. Krown,\* C.M. Pinsky, Y. Hirshaut, and H.F. Oettgen,\*\* New York, New York. *page 377A*
6. RANDOMIZED TRIAL OF PROPHYLACTIC VERSUS THERAPEUTIC PLATELET TRANSFUSION IN CHILDHOOD ACUTE LEUKEMIA. S. Murphy, P.A. Koch,\* and A.E. Evans,\* Philadelphia, Pennsylvania. *page 379A*
7. FETAL ANTIGENS IN CHRONIC LYMPHOCYTIC LEUKEMIA. A.K. Sullivan,\* L.M. Jerry, and M.G. Lewis, Montreal, Quebec, Canada. *page 381A*
8. RETICULOENDOTHELIAL SCANS VERSUS BONE SCANS IN MALIGNANT DISEASES. D.P. Shreiner and Y. Hsu,\* Pittsburgh, Pennsylvania. *page 381A*

**Teakwood Room, Lafayette**

**7:00 P.M.**

**Kaye Kilburn and John Weil, *Presiding***

1. ALTERATIONS OF SUPEROXIDE DISMUTASE BY STATE OF OXYGENATION IN MAMMALIAN SYSTEMS: L.M. Simon, J. Liu,\* J. Theodore, and E.D. Robin,\*\* Palo Alto, California. *page 390A*
2. REGULATION OF INTRACELLULAR pH IN RABBIT ALVEOLAR MACROPHAGES. D. Laman,\* J. Theodore, and E.D. Robin,\*\* Stanford, California. *page 386A*
3. ALTERATIONS IN FREE AIRWAY CELLS FOLLOWING EXPOSURE TO CADMIUM AEROSOL. S. Asvadi\* and J.A. Hayes,\*\* Boston, Massachusetts. *page 382A*
4. PROPERTIES OF ALVEOLAR ALPHA-1-ANTI-TRYPsin IN MAN. J.O. Harris and J. Goldblatt,\* Gainesville, Florida. *page 385A*
5. AMNIOTIC FLUID CORTISOL: RELATIONSHIP TO FETAL LUNG MATURATION. I.H. Gewolb,\* J.C. Hobbins,\* and S.Y. Tan, New Haven, Connecticut. *page 385A*
6. PERIPHERAL PLASMA DETERMINATIONS OF PROSTAGLANDIN E IN ASTHMATICS. J. Allegra, J. Trautlein, L. Demers,\* J. Field,\* and M. Gillin, Hershey, Pennsylvania. *page 382A*
7. *IN VIVO* ALVEOLAR CAPILLARY MEMBRANE PERMEABILITY CHANGES IN HEMORRHAGIC HYPOTENSION. F.L. Glauser, P. Fischer,\* and J.E. Millen,\*\* Long Beach, California. *page 385A*

8. DIFFERENTIAL RESPONSE OF MALE AND FEMALE AIRWAY EPITHELIUM TO CHRONIC TOBACCO SMOKE INHALATION. M. Hayashi,\* C. Sornberger,\* P. Phelps,\* and G. Huber, Boston, Massachusetts. *page 386A*

**Symposium**

**“Clinical Measurement of Pulmonary Edema”**

**Moderator: W.G. Johanson, Jr.**

**Participants:**

1. DETERMINATION OF LUNG THERMAL VOLUME BY THE DOUBLE INDICATOR DILUTION TECHNIQUE. Nicholas E. O'Connor, Harvard Medical School, Boston, Massachusetts.
2. A REBREATHING TECHNIQUE FOR THE MEASUREMENT OF PULMONARY CAPILLARY BLOOD VOLUME, MEMBRANE DIFFUSING CAPACITY, PULMONARY TISSUE VOLUME, AND CARDIAC OUTPUT. Alan H. Morris, University of Utah, Salt Lake City, Utah.
3. MEASUREMENT OF ENDOTHELIAL INTEGRITY IN THE LUNG. Arnold B. Gorin, University of California, Davis, California.

**Viking Room, Haddon Hall**

**7:00 P.M.**

**Saulo Klahr and Franklin Knox, *Presiding***

1. ACTIVATION OF CYCLIC ADENOSINE MONOPHOSPHATE SYSTEM AND PROTEIN KINASE BY PARATHYROID HORMONE AND CALCI-  
TONIN WITHOUT PHOSPHATURIA IN HAM-  
STER. T.P. Dousa, J. Preiss,\* J.K. Kim, Y.S.F. Hui,\*  
and F.G. Knox, Rochester, Minnesota. *page 399A*
2. CHRONIC PHOSPHATE DEPLETION: PROXIMAL  
TUBULAR FUNCTION AND HYPERCALCIURIA.  
S. Goldfarb, G.R. Westby,\* M. Goldberg, and Z.S.  
Agus, Philadelphia, Pennsylvania. *page 401A*
3. EVIDENCE FOR PARATHYROID HORMONE EN-  
HANCEMENT OF CALCIUM AND MAGNESIUM

- REABSORPTION IN THE TERMINAL NEPHRON  
SEGMENT OF THE HAMSTER. C.A. Harris,\* M.  
Burnatowska,\* R.A.L. Sutton, and J.H. Dirks,\*\*  
Montreal, Quebec, Canada. *page 401A*
4. SATURATION KINETICS OF PHOSPHATE RE-  
ABSORPTION: MICROPERFUSION STUDIES IN  
THE RENAL PROXIMAL TUBULE OF THE  
THYROPARATHYROIDECTOMIZED RAT. F.  
Lang,\* R. Greger,\* G. Marchand,\* and F.G. Knox,  
Rochester, Minnesota. *page 405A*
5. MECHANISM OF PHOSPHATURIA DURING  
ACUTE HYPERCAPNIA. R.K. Webb,\* P.B. Wood-  
hall,\* C.C. Tisher, F.A. Neelon,\* and R.R. Robin-  
son,\*\* Durham, North Carolina. *page 415A*



6. DEFECT IN THE CELLULAR ACTION OF VASOPRESSIN IN HYPOTHYROIDISM AND ITS CORRECTION BY THYROXINE TREATMENT. T.M. Harkcom,\* J.K. Kim, Y.S.F. Hui,\* P.J. Palumbo,\*\* and T.P. Dousa, Rochester, Minnesota. *page 401A*
7. DISSOCIATION OF PROXIMAL TUBULAR URATE AND SODIUM REABSORPTION IN THE RAT. E.J. Weinman, T. Knight,\* R. McKenzie,\* and G. Eknoyan, Houston, Texas. *page 416A*
8. MECHANISM OF URICOSURIA: STUDIES WITH TICRYNAFEN (SKF 62698). K. Lau,\* R. Stote, M. Goldberg,\*\* and Z.S. Agus, Philadelphia, Pennsylvania. *page 405A*
9. DEOXYCORTICOSTERONE ACETATE DOES NOT STIMULATE RENAL NA-K-ADENOSINE TRIPHOSPHATASE IN SALT-DEPLETED, CHRONICALLY ADRENALECTOMIZED RATS. C. Westenfelder, G. Arevalo,\* R.L. Baranowski, N.A. Kurtzman, and A.I. Katz,\*\* Chicago, Illinois. *page 416A*
10. THE EFFECT OF K<sup>+</sup> LOADING ON NH<sub>3</sub> PRODUCTION BY CORTEX AND OUTER MEDULLA. R.L. Tannen, Burlington, Vermont. *page 413A*

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## Renal and Electrolyte II

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**West Room, Haddon Hall**

**7:00 P.M.**

**John Hayslett and C. Craig Tisher,**

*Presiding*

1. URINARY PRECESSION OF URATE FROM INULIN AS AN INDEX OF URATE SECRETION. E.J. Weinman, D. Steplock,\* and G. Eknoyan, Houston, Texas. *page 416A*
2. ROLE OF INTRACELLULAR CALCIUM ON BASELINE AND ANTIDIURETIC HORMONE STIMULATED SODIUM TRANSPORT IN THE TOAD BLADDER. W. Wiesmann,\* S. Sinha,\* and S. Klahr, St. Louis, Missouri. *page 416A*
3. EVIDENCE FOR ENHANCED URINARY ACIDIFICATION BY CARBONIC ACID BACKDIFFUSION. J. Schwartz, Washington, D.C. *page 411A*
4. EFFECTS OF LITHIUM ON PROXIMAL AND DISTAL TUBULAR FUNCTION. B. Hecht,\* M. Kashgarian,\* J.N. Forrest, and J.P. Hayslett, New Haven, Connecticut. *page 402A*
5. IMPORTANCE OF BICARBONATE TO THE PARATHYROID HORMONE-INDUCED CHANGES OF FLUID ABSORPTION BY THE PROXIMAL TUBULE. V.W. Dennis and R.R. Robinson,\*\* Durham, North Carolina. *page 397A*
6. INHIBITION OF ANTIDIURETIC HORMONE-INDUCED WATER FLOW IN THE TOAD URINARY BLADDER BY TETRACYCLINES: CORRELATION OF PHYSIOLOGICAL EFFECT WITH EPITHELIAL CELL PROTEIN BINDING. M. Cox and I. Singer, Philadelphia, Pennsylvania. *page 397A*
7. RENAL BICARBONATE REABSORPTION BY THE HYPOTHYROID RAT. U.F. Michael, J. Kelley\* and C.A. Vaamonde,\*\* Miami, Florida. *page 407A*
8. AN EXAMINATION OF THE TUBULO-GLOMERULAR FEEDBACK HYPOTHESIS. R.C. Blantz and K.S. Konnen,\* La Jolla, California. *page 393A*
9. PERMEABILITY OF THE RENAL PAPILLARY EPITHELIUM AND URINARY CONCENTRATING ABILITY. C. Lechene,\*\* J.V. Bonventre,\* and M.J. Karnovsky,\* Boston, Massachusetts. *page 405A*
10. PATHOGENESIS OF HYPERGLUCAGONEMIA IN THE UREMIC RAT. D.S. Emmanouel, J.B. Jaspan,\* S.F. Kuku,\* A.H. Rubenstein, and A.I. Katz,\*\* Chicago, Illinois. *page 399A*

Program—Subspecialty Meetings

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Chalfonte-Haddon Hall, LaFayette Hotel, and Ramada Inn

Atlantic City, New Jersey

SUNDAY AFTERNOON, MAY 2, 1976

Cardiovascular, *Pennsylvania Room II, Haddon Hall*

Cardiovascular Poster Session, *Exhibit 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*

Metabolism Poster Session, *Exhibit 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.

J. Thomas Bigger and William B. Hood,  
*Presiding*

1. MYOGLOBINEMIA AS A CLUE TO THE PRESENCE OF ACUTE MYOCARDIAL INFARCTION. J.T. Willerson,\* L. Poliner,\* L.M. Buja,\* M.R. Waterman,\* C.E. Gomez-Sanchez,\* G.H. Templeton\* and M.J. Stone\* (Intr. by D.W. Foster), Dallas, Texas.  
*ASCI page 422A*
2. HEMODYNAMIC IMPROVEMENT WITH HYDRALAZINE IN LEFT HEART FAILURE. J.A. Franciosa and J.N. Cohn,\*\* Minneapolis, Minnesota.  
*AFCR page 217A*
3. REGIONAL SYMPATHETIC ACTIVITY IN RIGHT HEART FAILURE: CHOLINE ACETYLTRANS-

FERASE ACTIVITY IN GANGLIA AND NOR-EPINEPHRINE TURNOVER RATE IN THE HEART AND VASCULATURE. P.G. Schmid\* and R. Roskoski, Jr.\* (Intr. by F.M. Abboud), Iowa City, Iowa.  
*ASCI page 421A*

4. DETECTION OF MYOCARDIAL ISCHEMIA BY COMPUTERIZED TOMOGRAPHY IN CANINE HEARTS. W.J. Powell, Jr., J. Wittenberg,\* R.E. Dinsmore,\* S.W. Miller,\* and R.A. Maturi,\* Boston, Massachusetts.  
*ASCI page 420A*

5. RELATIVE EFFECTS OF NITROPRUSSIDE AND NITROGLYCERIN ON ISCHEMIA AFTER EXPERIMENTAL CORONARY OCCLUSION. R.L. Engler,\* A.S. Pearlman,\* R.A. Goldstein,\* K.M. Kent, and S.E. Epstein, Bethesda, Maryland.  
*AFCR page 216A*

6. EFFECTS OF ISOPROTERENOL ON REGIONAL MYOCARDIAL FUNCTION, ELECTROGRAM AND BLOOD FLOW IN CONSCIOUS DOGS WITH MYOCARDIAL ISCHEMIA. S.F. Vatner, R.W. Millard, T.A. Patrick,\* and G.R. Heyndrickx,\* Boston, Massachusetts. *AFCR page 243A*
7. IDENTIFYING ANGIOTENSIN-DEPENDENT HYPERTENSION: A COMPARISON OF TWO DIFFERENT ANGIOTENSIN INHIBITORS AND RENIN PROFILING. D.B. Case,\* J.M. Wallace,\* H.J. Keim,\* J.E. Sealey,\* and J.H. Laragh,\*\* New York, New York. *ASCI page 418A*
8. CHRONIC LABILE NEUROGENIC HYPERTENSION PRODUCED BY SMALL LESIONS OF BRAIN. M.A. Nathan and D.J. Reis, New York, New York. *ASCI page 420A*
9. LOW RENAL PAPILLARY PLASMA FLOW IN BOTH DAHL AND KYOTO SPONTANEOUS HYPERTENSIONS. L. Tobian,\*\* M. Ganguli, and L. Dahl, Minneapolis, Minnesota, and Upton, New York. *AAP page 474A*
10. EXTERNAL QUANTIFICATION OF MYOCARDIAL INFARCTION *IN VIVO*. E.S. Weiss,\* M.J. Welch,\* M.M. Ter-Pogossian,\* and B.E. Sobel, St. Louis, Missouri. *ASCI page 422A*
11. EFFECTS OF ETHANOL ON VENTRICULAR ELECTRICAL STABILITY IN THE CHRONIC ALCOHOLIC ANIMAL. C.L. De La Cruz, Jr.,\* B. Haider,\* P.O. Ettinger,\* and T.J. Regan,\*\* Newark, New Jersey. *ASCI page 419A*
12. THE EFFECT OF ANOMALOUS PATHWAY LOCATION ON RATE OF EXPERIMENTAL ATRIOVENTRICULAR REENTRANT TACHYCARDIA IN THE DOG. P. Denes,\* F. Amat-y-Leon,\* S. Teague,\* A. Blasdel,\* and K. Rosen, Chicago, Illinois. *ASCI page 419A*
13. ELECTROPHYSIOLOGIC, ECHOCARDIOGRAPHIC AND HEMODYNAMIC CORRELATIONS OF LEFT ATRIAL ENLARGEMENT. M.E. Josephson,\* J. Morganroth,\* and J.A. Kastor,\*\* Philadelphia, Pennsylvania. *AAP page 472A*

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### Cardiovascular Poster Session

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#### Exhibit Hall

1:00-3:00 P.M.

1. TOMOGRAPHIC MYOCARDIAL PERFUSION IMAGING USING A DOUBLE CAMERA COINCIDENCE SYSTEM. W. Walsh,\* H. Fill,\* M. Buchin,\* G. Muellehner,\* F. Atkins,\* P. Harper,\* and L. Resnekov\*\* (Intr. by H. Brooks\*\*), Chicago, Illinois. *page 244A*
2. INTRAOPERATIVE ANALYSIS BY ECHOCARDIOGRAPHY OF OUTFLOW TRACT OBSTRUCTION IN TETRALOGY OF FALLOT. H.M. Spotnitz, J.R. Malm,\* E. Krongrad,\* D.L. King,\* R.W. Pooley,\* F.O. Bowman, Jr.,\* R.N. Edie,\* and B.F. Hoffman,\* New York, New York. *page 241A*
3. ANATOMIC VALIDATION OF LEFT VENTRICULAR MASS DETERMINATION BY ECHOCARDIOGRAPHY IN MAN. R.B. Devereux,\* N. Reichek, and P.J. Klunder,\* Philadelphia, Pennsylvania. *page 214A*
4. DETECTION OF MYOCARDIAL DAMAGE WITH <sup>99m</sup>Tc-PYROPHOSPHATE AFTER OPEN HEART SURGERY. I.S. Lowenthal,\* A.F. Parisi, D.E. Tow, E.M. Barsamian,\* H.C. Clemson,\* and D. McCaughan,\* West Roxbury and Boston, Massachusetts. *page 228A*
5. POST HOSPITAL FREQUENCY OF CARDIAC ARRHYTHMIAS FOLLOWING MYOCARDIAL INFARCTION RELATED TO THE LENGTH OF HOSPITALIZATION. M. Nejat and E. Greif,\*\* Brooklyn, New York. *page 233A*
6. ACUTE BLOOD PRESSURE ELEVATION AND VENTRICULAR FIBRILLATION THRESHOLD DURING CORONARY ARTERY OCCLUSION AND REPERFUSION IN THE DOG. C.M. Blatt,\* R.L. Verrier,\* and B. Lown,\*\* Boston, Massachusetts. *page 209A*
7. LACK OF EFFECT OF LIDOCAINE ON NERVE DISCHARGE AND ARRHYTHMIA PRODUCED BY ACUTE CORONARY OCCLUSION. C.M. Lathers,\* J. Roberts,\*\* and G.J. Kelliher, Philadelphia, Pennsylvania. *page 226A*
8. SEGMENTAL LEFT VENTRICULAR FUNCTION AND METABOLISM FOLLOWING REPERFUSION OF ACUTELY ISCHEMIC MYOCARDIUM. J.J. Kane,\* M.L. Murphy,\*\* C.F. Peng,\* K.D. Straub,\* J.K. Bissett, and J.E. Doherty,\*\* Little Rock, Arkansas. *page 224A*
9. MYOCARDIAL FUNCTION AND RENIN IN THE SPONTANEOUSLY HYPERTENSIVE RAT AFTER CENTRAL AND PERIPHERAL SYMPATHECTOMY. A. Cutilletta, L. Erinoff,\* and S. Oparil, Chicago, Illinois. *page 214A*
10. CARNITINE-INDUCED EFFECTS ON CARDIAC AND PERIPHERAL HEMODYNAMICS. H.L. Brooks,\*\* R. Holland, N. Sanzari,\* S. DeFelice,\* and L. Goldberg,\*\* Chicago, Illinois, and New York, New York. *page 211A*
11. CREATINE PHOSPHOKINASE DISAPPEARANCE FOLLOWING ACUTE MYOCARDIAL INFARCTION. L. Reduto,\* R. Pizzarello,\* K. Geller,\* S. Gulotta, and J. Morrison, Manhasset, New York. *page 237A*

12. CARDIOVASCULAR FUNCTION DURING EARLY RECOVERY FROM ACUTE MYOCARDIAL INFARCTION. H.R. Lewis,\* A.J. Wohl,\* J.T. Willerson, C.B. Mullins,\*\* and C.G. Blomqvist,\*\* Dallas, Texas. *page 227A*
13. VASODILATION AND THROMBOLYSIS WITH INTRA-ARTERIAL UROKINASE INFUSION IN THE CANINE FEMORAL CIRCULATION. N.J. Gurll, W. Callahan, II,\* and H.V. Hufnagel, Washington, D.C. *page 219A*
14. EARLY ADAPTATIONS TO SIMULATED ZERO GRAVITY. J.V. Nixon,\* R.G. Murray,\* O.B. Holland,\* R.L. Johnson, Jr.,\*\* P. Vergne-Marini,\* and C.G. Blomqvist,\*\* Dallas, Texas. *page 233A*
15. POST EXTRASYSTOLIC COMPLIANCE OF THE LEFT VENTRICLE. W.H. Gaasch, O.H.L. Bing, J.S. Cole, and H.G. Hanley, Boston, Massachusetts, and Houston, Texas. *page 218A*

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**Clinical Epidemiology and Health Care Research**

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**Solarium, Haddon Hall**

**1:30 P.M.**

**Charles A. Sanders and Joseph C. Shipp,  
Presiding**

1. FACTORS AFFECTING PROBLEM FOLLOW-UP IN AMBULATORY CARE. D.W. Simborg\* and B.H. Starfield\* (Intr. by R.J. Johns\*\*), Baltimore, Maryland. *AAP page 479A*
2. EVALUATING PHYSICIAN EXTENDERS' MEDICAL CARE: ALGORITHM-ASSISTED MANAGEMENT OF AMBULATORY PATIENTS WITH ACUTE RESPIRATORY ILLNESSES. B.W. Wolcott,\* R.W. Wood,\* L.M. Burger,\* and R.K. Tompkins, San Antonio, Texas, and Seattle, Washington. *AFCR page 302A*
3. CARDIAC REACTIVE ACCELERATION IN THE SURVEILLANCE OF FETAL WELL-BEING. F.G. Mariona\*\* and G. Valookaren,\* Detroit, Michigan. *AAP page 479A*
4. COMPUTERIZED TOMOGRAPHY VERSUS BRAIN SCANNING IN THE DIAGNOSIS OF BRAIN TUMOR. W.A. Knaus\* and D.O. Davis\* (Intr. by S.A. Schroeder), Washington, D.C. *AFCR page 298A*
5. VOLUNTARY AND MANDATORY PRESURGICAL SCREENING PROGRAMS: AN ANALYSIS OF THEIR IMPLICATIONS. E.G. McCarthy and A.S. Kamons,\* New York, New York. *AFCR page 299A*
6. PATTERNS OF CARE AND OUTCOMES IN THE COMMON COLD. J.D. Bristow,\*\* M.R. Greenlick,\* A.V. Hurtado,\* and D. Azevedo,\* Portland, Oregon. *AAP page 479A*
7. A PROSPECTIVE STUDY OF CHEST PAIN: CLINICAL FINDINGS, DIAGNOSES, AND OUTCOMES IN 147 UNSELECTED PATIENTS. H.C. Sox,\* C. Shapiro,\* and C.H. Sox\* (Intr. by D.D. Federman\*\*), Stanford, California. *AFCR page 301A*
8. A PROTOCOL FOR THE EXCLUSION OF CURABLE HYPERTENSION. C.E. Grim, J.T. Higgins,\* and M.H. Weinberger, Indianapolis, Indiana. *AFCR page 297A*
9. ROLE OF CHRONIC HYPERTENSION AND PLASMA RENIN AS INDEPENDENT RISK FACTORS IN CORONARY PATIENTS: LACK OF RELATION TO SEVERITY OF CORONARY DISEASE AND CARDIAC FUNCTION. M.J. Tonkon,\* R.R. Miller, P. Ternahan,\* R. O'Connor,\* J.F. Kraus,\* N.O. Borhani,\*\* and D.T. Mason,\*\* Davis, California. *AFCR page 250A*
10. ABNORMAL LYMPHOCYTE RESPONSES IN RESIDENTS OF A TOWN WITH A CLUSTER OF HODGKIN'S DISEASE. J. Plouffe,\* J. Callen,\* R. Schwartz,\* J. Allen,\* and J. Silva, Ann Arbor, Michigan. *AFCR page 249A*
11. SEVERITY OF SYMPTOMS AND CO-MORBIDITY: CRUCIAL CLINICAL OMISSIONS IN CURRENT STAGING SYSTEMS FOR CANCER. A.R. Feinstein\*\* and C.K. Wells, New Haven, Connecticut. *AAP page 475A*
12. COMPUTER-BASED CHART AUDIT TO DETECT OVERUTILIZATION OF LABORATORY TESTS. J. Eisenberg,\* L. Garner,\* S. Williams,\* H. Smits,\* and R. Viale\* (Intr. by M. Goldberg\*\*), Philadelphia, Pennsylvania. *AFCR page 296A*
13. PRE-THERAPEUTIC CLINICAL MORBIDITY IN PROGNOSTIC STAGING FOR ACUTE LEUKEMIA. N.F. Boyd,\* J.D. Clemens,\* and A.R. Feinstein,\*\* New Haven, Connecticut, and Montreal, Quebec, Canada. *ASCI page 422A*

**Ramada Inn**

**1:30 P.M.**

**John L. McNay and Elliot S. Vesell,**

*Presiding*

1. A NOVEL METHOD FOR DETERMINING BIO-AVAILABILITY: APPLICATION TO CHENODE-OXYCHOLIC ACID. G.P. van Berge Henegouwen,\* A.F. Hofmann, and P.Y.S. Yu,\* Rochester, Minnesota. *ASCI page 424A*
2. IMPAIRED HYDROLYSIS OF COCAINE IN PLASMA FROM SUCCINYLCHOLINE SENSITIVE INDIVIDUALS. P. Jatlow, P.L. Barash,\* C. Van Dyke,\* and R. Byck,\* New Haven, Connecticut. *AFCR page 255A*
3. REVERSAL OF MASSIVE DIGITOXIN TOXICITY WITH SPECIFIC Fab FRAGMENTS. H. Ochs\* and T.W. Smith, Boston, Massachusetts. *ASCI page 424A*
4. ANTIARRHYTHMIC EFFICACY OF N-ACETYL-PROCAINAMIDE IN PATIENTS WITH PREMA-TURE VENTRICULAR CONTRACTIONS. W.-K. Lee,\* J.M. Strong,\* R.F. Kehoe,\* J.S. Dutcher,\* and A.J. Atkinson, Jr., Chicago, Illinois. *AFCR page 256A*
5. ENHANCED BIOAVAILABILITY OF ENCAPSU-LATED DIGOXIN SOLUTION GIVEN WITH MEALS. J. Lindenbaum\*\* and G.I. Mallis,\* New York, New York. *AFCR page 256A*
6. PHARMACOKINETICS OF QUINIDINE IN PA-TIENTS WITH CARDIAC DISEASE. K.A. Conrad,\* B. Molk,\* and C.A. Chidsey,\*\* Denver, Colorado. *AFCR page 252A*
7. DIGITALIS-INDUCED ARRHYTHMIAS ASSO-CIATED WITH NORMOKALEMIC POTASSIUM DEPLETION AND ALKALOSIS. D.C. Brater\* and H.F. Morrelli\* (Intr. by H.R. Bourne), San Fran-cisco, California. *AFCR page 252A*
8. ANTAGONISM OF THE ANTIHYPERTENSIVE AND SYMPATHOPLEGIC EFFECTS OF GUAN-ETHIDINE BY EPHEDRINE IN MAN. R.L. Woos-ley,\* I. Walter,\* J.A. Oates,\*\* and A.S. Nies, Nash-ville, Tennessee. *AFCR page 259A*
9. AFFINITY OF PROPRANOLOL FOR THE BETA RECEPTOR IN MAN. D.G. Shand, M. Frisk-Holmberg,\* J.W. Hollifield,\* and D.G. McDevitt,\* Nashville, Tennessee. *ASCI page 424A*
10. KALLIKREIN ACTIVITY IN HUMAN URINE: THE INFLUENCE OF RACE. J.J. Lilley, L. Hsu,\* R. Frigon,\* and R.A. Stone, San Diego, California. *AFCR page 256A*
11. CONFORMATIONAL REQUIREMENTS FOR DOPAMINE-INDUCED VASODILATION. P.H. Volkman,\* J.D. Kohli,\* L.I. Goldberg,\*\* T. Lee,\* and J.D. Cannon,\* Chicago, Illinois, and Iowa City, Iowa. *AAP page 475A*
12. VARIABILITY OF HEPATIC MICROSOMAL RE-SPONSE TO LIVER DISEASE AND DIPHENYL-HYDANTOIN. G.W. Hepner\* and E.S. Vesell, Her-shey, Pennsylvania. *ASCI page 423A*
13. PLASMA 1,25-DIHYDROXYVITAMIN D LEVELS IN PATIENTS ON ANTICONVULSANT DRUGS. W. Jubiz, M.R. Haussler, K.G. Tolman, and T.A. McCain,\* Salt Lake City, Utah, and Tucson, Arizona. *AFCR page 255A*

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Dermatology

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**Teakwood Room, LaFayette**

**1:30 P.M.**

**Andrew H. Kang and John J. Voorhees,**

*Presiding*

1. INITIATION OF MAMMALIAN EPIDERMAL PRO-TEIN SYNTHESIS. I.M. Freedberg and M.E. Gilmar-tin,\* Boston, Massachusetts. *ASCI page 425A*
2. ISOLATION AND CHARACTERIZATION OF TYPE I AND TYPE III COLLAGEN. J.M. Seyer,\* D.A. Swann,\* D.M. Brickley,\* and M.J. Glimcher\* (Intr. by A.E. Postlethwaite), Memphis, Tennessee, and Boston, Massachusetts. *AFCR page 267A*
3. POLYPEPTIDE COMPOSITION OF THE FIBROUS PROTEINS OF PIG AND CALF EPIDERMIS. L.D. Lee\* and H.P. Baden,\*\* Boston, Massachusetts. *AFCR page 265A*
4. REGULATION OF EPIDERMAL TRANSGLU-TAMINASE. H. Ogawa\* and L.A. Goldsmith, Dur-ham, North Carolina. *AFCR page 266A*
5. CELL CULTURE DENSITY AS A MODULATOR OF COLLAGENASE ACTIVITY IN NORMAL HUMAN SKIN FIBROBLAST CULTURES. E.A. Bauer, J.J. Jeffrey,\* and A.Z. Eisen, St. Louis, Missouri. *AFCR page 261A*
6. KERATINOCYTES CONTAIN ACTIN. J. McGuire, E. Lazarides,\* and A. DiPasquale,\* New Haven, Connecticut, and Boulder, Colorado. *ASCI page 425A*
7. A RETICULOEPITHELIAL SYSTEM: CUTAN-EOUS TRAP FOR ANTIGENS. W.B. Shelley\*\* and L. Juhlin\*, Philadelphia, Pennsylvania. *AAP page 476A*

8. ROLE OF DELAYED HYPERSENSITIVITY IN CLEARANCE OF ORGANISMS FROM EXPERIMENTAL CUTANEOUS CANDIDIASIS. P.G. Sohnle\* and C.H. Kirkpatrick, Bethesda, Maryland. *ASCI page 425A*
9. SALINE SOLUBLE ANTIGENS COMMON TO EPIDERMIS, ESOPHAGUS, SALIVA AND URINE. L.A. Diaz,\* N.J. Calvanico,\* and R.E. Jordon\* (Intr. by S.F. Phillips), Rochester, Minnesota. *ASCI page 425A*
10. Ro 20-1724 ELEVATES EPIDERMAL CYCLIC ADENOSINE MONOPHOSPHATE LEVELS *IN VITRO* AND IMPROVES PSORIASIS *IN VIVO*. M. Stawiski,\* L. Rusin,\* M.A. Schork,\* T. Burns,\* E. Duell, and J. Voorhees, Ann Arbor, Michigan. *AFCR page 267A*
11. COLD URTICARIA: THE APPEARANCE IN THE CIRCULATION OF A NEUTROPHIL CHEMOTACTIC PRINCIPLE DURING COLD CHALLENGE. S.I. Wasserman,\* N.A. Soter, D.M. Center,\* and K.F. Austen,\*\* Boston, Massachusetts. *AFCR page 268A*
12. DRUG PHOTOSENSITIZATION IN MAN FOLLOWING PARENTERAL EXPOSURE TO HEMATOPORPHYRIN. G. Zalar,\* M. Poh-Fitpatrick,\* D. Krohn,\* and R. Jacobs\* (Intr. by L.C. Harber\*\*), New York, New York. *ASCI page 425A*
13. INHIBITION OF LYSYL OXIDASE BY HOMOCYSTEINE: A PROPOSED CONNECTIVE TISSUE DEFECT IN HOMOCYSTINURIA. K.A. Lindberg,\* A. Hassett,\* and S.R. Pinnell, Durham, North Carolina. *AFCR page 265A*

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## Endocrinology

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### Pennsylvania Room III, Haddon Hall

1:30 P.M.

C. Wayne Bardin and Gerald S. Levey,

*Presiding*

1. A NEW DIRECT METHOD FOR DETECTION AND CHARACTERIZATION OF CELL SURFACE RECEPTORS FOR INSULIN USING SPECIFIC <sup>125</sup>I-RECEPTOR AUTOANTIBODIES. D.B. Jarrett\* and J. Roth (Intr. by P. Gorden), Bethesda, Maryland. *ASCI page 427A*
2. MOLECULAR MECHANISMS OF CATECHOLAMINE-INDUCED DESENSITIZATION AND RESENSITIZATION OF BETA-ADRENERGIC RECEPTORS. R.J. Lefkowitz and C. Mukherjee,\* Durham, North Carolina. *ASCI page 428A*
3. DIRECT MEASUREMENT OF L-THYROXINE AND L-TRIIODOTHYRONINE AT THYROID HORMONE RECEPTOR SITES IN RAT LIVER NUCLEI. M.I. Surks and J.H. Oppenheimer,\*\* Bronx, New York. *ASCI page 430A*
4. DEMONSTRATION OF SEQUENTIAL MONODEIODINATION AS THE MAJOR PATHWAY OF IODOTHYRONINE METABOLISM. M. Rudolph,\* T. Sakurada,\* A. Vagenakis,\* S. Fang,\* L. Braverman,\*\* and S. Ingbar,\*\* Denver, Colorado; Boston and Worcester, Massachusetts. *ASCI page 429A*
5. INDUCTION BY THYROTROPIN OF A PROTEIN INHIBITOR OF THE CYCLIC ADENOSINE MONOPHOSPHATE RESPONSE TO SERUM THYROTROPIN IN CULTURED THYROID CELLS. B. Rapoport and R.J. Adams,\* San Francisco, California. *AFCR page 276A*
6. MITOCHONDRIAL THYROID HORMONE BINDING AND ACTIVATION. J.H. Lazarus,\* P.O. Milch,\* and K. Sterling,\*\* Bronx and New York, New York. *ASCI page 428A*
7. SELECTIVE LOSS OF VASOPRESSIN SECRETION AND THIRST DUE TO OSMORECEPTOR DYSFUNCTION. R. Shelton\* and G. Robertson, Indianapolis, Indiana. *AFCR page 278A*
8. SARALASIN ACETATE INFUSION IN THE RECOGNITION OF RENOVASCULAR HYPERTENSION. H.M. Wilson,\* P.E. Slaton, Jr.,\*\* J.P. Wilson,\* G.W. Liddle,\*\* J.H. Foster,\* and J.W. Hollifield,\* Nashville, Tennessee. *AFCR page 280A*
9. EFFECT OF SODIUM RESTRICTION AND INDOMETHACIN ON THE RENIN-ANGIOTENSIN AND PROSTAGLANDIN SYSTEMS IN MAN. P. Speckart,\* P. Zia,\* R. Zipser,\* and R. Horton,\*\* Los Angeles, California. *AFCR page 278A*
10. MODULATING ACTIONS OF EXTRACELLULAR SODIUM CONCENTRATION ON ALDOSTERONE PRODUCTION BY ZONA GLOMERULOSA CELLS. J. Douglas,\* S. Saltman,\* P. Fredlund,\* T. Kondo,\* and K. Catt, Bethesda, Maryland. *ASCI page 427A*
11. MECHANISM OF EFFECT OF GLUCOCORTICOID DEFICIENCY ON RENAL WATER EXCRETION IN THE CONSCIOUS DOG. J. Boykin,\* A. McCool,\* K. McDonald, G. Robertson, and R. Schrier, Denver, Colorado, and Indianapolis, Indiana. *AFCR page 269A*
12. A RECIPROCAL RELATIONSHIP BETWEEN THYROID-RELEASING HORMONE AND DOPAMINE IN REGULATING THE RELEASE OF PITUITARY HORMONES. P.B. May,\* G.N. Burrow,\* S.W. Spaulding,\* and R.K. Donabedian\* (Intr. by G. Cohn), New Haven, Connecticut. *ASCI page 428A*
13. AROMATIZATION OF ANDROSTENEDIONE BY CULTURED HUMAN FIBROBLASTS. H.-U. Schweikert,\* L. Milewich,\* and J.D. Wilson, Dallas, Texas. *ASCI page 430A*

**Vernon Room, Haddon Hall**

1:30 P.M.

**Young S. Kim and Daniel V. Kimberg, Presiding**

1. CHLORPROMAZINE METABOLITES—INHIBITORS OF Na<sup>+</sup>, K<sup>+</sup> ADENOSINE TRIPHOSPHATASE IN LIVER PLASMA MEMBRANES ENRICHED IN BILE CANALICULI. J.L. Boyer and M. Root,\* Chicago, Illinois. *AFCR page 281A*
2. CHARACTERIZATION OF BILE ACID BINDING TO BRUSH BORDER MEMBRANES. F.A. Wilson and L.L. Treanor,\* Nashville, Tennessee. *AFCR page 293A*
3. RELATIONSHIP OF HEPATIC BILIRUBIN EXCRETION TO FASTING AND FEEDING IN MAN. D.T. Lyon,\* J.R. Ashkin,\* C.I. Wagner,\* B.W. Trotman, and R.D. Soloway, Philadelphia, Pennsylvania. *AFCR page 288A*
4. DEFECTIVE T-LYMPHOCYTE-SPECIFIC CYTOTOXICITY IN PRIMARY BILIARY CIRRHOSIS BUT NOT IN CHRONIC HEPATITIS. J.M. Vierling,\* D.L. Nelson,\* W. Strober, B.M. Bundy,\* and E.A. Jones,\* Bethesda, Maryland. *AFCR page 293A*
5. LIVER COLLAGEN SYNTHESIS IN MURINE SCHISTOSOMIASIS. M.A. Dunn, M. Rojkind,\* and K.S. Warren,\*\* Bronx, New York, and Cleveland, Ohio. *AFCR page 283A*
6. THE SIZE OF GLYCINE OLIGOPEPTIDE WHICH LIMITS INTACT ABSORPTION IN HUMAN JEJUNUM. S. Adibi and E. Morse,\* Pittsburgh, Pennsylvania. *ASCI page 431A*
7. IMMUNOFLUORESCENT LOCALIZATION OF APOPROTEIN B IN INTESTINAL EPITHELIAL CELLS. R.M. Glickman, A. Kilgore,\* and J. Khorana,\* Boston, Massachusetts. *AFCR page 285A*
8. EFFECT OF VASOACTIVE INTESTINAL PEPTIDE ON COLONIC TRANSPORT AND ADENYLATE CYCLASE ACTIVITY: BLOCKADE BY LACTAMIMIDE. D.B. Waldman,\* J.D. Gardner,\*\* A.M. Zfass,\* and G.M. Makhlof,\*\* Richmond, Virginia, and Bethesda, Maryland. *AFCR page 293A*
9. STUDIES OF THE ROLE OF FATTY ACID BINDING PROTEIN IN THE UTILIZATION OF FREE FATTY ACID BY ISOLATED HEPATOCYTES. D.A. Burnett\* and R.K. Ockner, San Francisco, California. *ASCI page 432A*
10. MODULATION OF HORMONE RESPONSE IN PANCREATIC ACINAR CELLS: BIOCHEMICAL REGULATION OF INITIAL STEP IN ACTION OF SECRETIN AND VASOACTIVE INTESTINAL PEPTIDE. E. Olinger\* and J. Gardner, Bethesda, Maryland. *AFCR page 289A*
11. HEARTBURN OF PREGNANCY—A HORMONAL DISORDER. R.S. Fisher, G.S. Roberts,\* C.J. Grabowski,\* and S. Cohen, Philadelphia, Pennsylvania. *AFCR page 284A*
12. PREFERENTIAL TRANSPORT OF HORSE-RADISH PEROXIDASE BY M CELLS OVER PEYER'S PATCH LYMPHOID FOLLICLES. R.L. Owen\* (Intr. by A.L. Jones), San Francisco, California. *ASCI page 434A*
13. PHLORIZIN BINDING PROPERTIES OF BRUSH BORDER MEMBRANES OF RAT INTESTINE. J.E. Franklin,\* G. Luk,\* and K.J. Isselbacher\*\* (Intr. by L.J. Kagen), New York, New York, and Boston, Massachusetts. *AFCR page 284A*

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Genetics

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**Garden Room, Haddon Hall**

1:30 P.M.

**Walter E. Nance and William S. Sly,  
Presiding**

1. EVIDENCE FROM TWINS FOR A GENETIC INFLUENCE ON THE RENIN-ALDOSTERONE SYSTEM IN NORMAL MAN. C.E. Grim, W.E. Nance,\*\* J.C. Christian, R.J. Rose,\* D.H. Henry, and M.H. Weinberger, Indianapolis, Indiana. *AFCR page 294A*
2. HUMAN PHOSPHORIBOSYLPYROPHOSPHATE SYNTHETASE: RELATION OF ACTIVITY TO QUATERNARY STRUCTURE. L.J. Meyer and M.A. Becker, San Diego, California. *AFCR page 295A*
3. ADENINE PHOSPHORIBOSYLTRANSFERASE DEFICIENCY: EVIDENCE FOR GENETIC HETEROGENEITY. I.H. Fox, S. Lacroix,\* and M. Moore,\* Toronto, Ontario, Canada. *AFCR page 294A*
4. INDUCTION OF FETAL HEMOGLOBIN SYNTHESIS *IN VITRO*. T. Papayannopoulou,\* M. Brice,\* and G. Stamatoyannopoulos, Seattle, Washington. *ASCI page 435A*
5. DETECTION OF HETEROZYGOTES FOR TYROSINASE-NEGATIVE OCULOCUTANEOUS ALBINISM BY HAIRBULB TYROSINASE ASSAY. R.A. King and C.J. Witkop, Jr.,\* Minneapolis, Minnesota. *AFCR page 294A*

6. ENHANCED URIDINE DIPHOSPHATE GALACTOSE: GLYCOPROTEIN GALACTOSYLTRANSFERASE IN CULTIVATED SKIN FIBROBLASTS OF PATIENTS WITH CYSTIC FIBROSIS. G.J.S. Rao,\* G. Spells,\* and H.L. Nadler, Chicago, Illinois.  
*ASCI page 435A*
7. PROTOPORPHYRIA: EXPRESSION OF THE BIOCHEMICAL DEFECT IN CULTURED SKIN FIBROBLASTS. J.R. Bloomer and M.J. Mahoney,\* New Haven, Connecticut.  
*AFCR page 294A*
8. DEMONSTRATION OF *IN VITRO* RESPONSIVENESS TO BIOTIN IN FIBROBLASTS OF A PATIENT WITH 3-METHYLCROTONYLGLYCINURIA AND PROPIONIC ACIDEMIA. W. Weyler,\* L. Sweetman,\* and W.L. Nyhan,\*\* San Diego and La Jolla, California.  
*AFCR page 295A*
9. APPLICATION OF MOLECULAR HYBRIDIZATION TO PRENATAL DIAGNOSIS OF  $\alpha$  THALASSEMIA. Y.W. Kan, M.S. Golbus,\* and A.M. Dozy,\* San Francisco, California.  
*ASCI page 435A*
10. PRENATAL DIAGNOSIS OF HEMOGLOBINOPATHIES: EXPERIENCE IN 17 CASES. B.P. Alter,\* A.S. Sherman,\* J.C. Hobbins,\* M.J. Mahoney,\* C.B. Modell,\* D. Fairweather,\* F.D. Frigoletto,\* and D.G. Nathan, Boston, Massachusetts; New Haven, Connecticut; and London, England.  
*AFCR page 293A*
11. PRENATAL DIAGNOSIS OF PROPIONIC ACIDEMIA BY ORGANIC ACID ANALYSIS. L. Sweetman,\* W. Weyler,\* T. Shafai,\* P.E. Young,\* and W.L. Nyhan,\*\* Riverside, San Diego, and La Jolla, California.  
*AFCR page 295A*
12. TRICHOPOLIODYSTROPHY: A GENETIC DEFECT IN SELECTIVE COPPER BINDING AND STORAGE AS WELL AS TRANSPORT. R.I. Henkin and W.D. Grover,\* Washington, D.C., and Philadelphia, Pennsylvania.  
*ASCI page 435A*
13. MONOCYTE-DERIVED MACROPHAGES: A NEW *IN VITRO* SYSTEM FOR STUDYING THE DIAGNOSIS AND THERAPY OF HEREDITARY LYSOSOMAL STORAGE DISEASES. S. Yatziv,\* L.B. Epstein,\* and C.J. Epstein, San Francisco, California.  
*ASCI page 436A*

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## Hematology

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**Windsor Room, Haddon Hall**

**1:30 P.M.**

**H. Franklin Bunn and Harry S. Jacob,**

*Presiding*

1. THE EFFECT OF INDUCED FEVER ON SERUM IRON AND FERRITIN CONCENTRATION IN MAN. R.J. Elin, S.M. Wolff,\*\* and C.A. Finch,\*\* Bethesda, Maryland, and Seattle, Washington.  
*AFCR page 306A*
2. EFFECT OF GALACTOSE OXIDASE ON ERYTHROCYTE SURVIVAL. J.R. Durocher and M.E. Conrad,\*\* Philadelphia, Pennsylvania, and Birmingham, Alabama.  
*AFCR page 306A*
3. KINETICS OF OXYGEN UPTAKE BY SICKLE RED CELLS. M.J. Messer, J.A. Hahn,\* and T.B. Bradley,\*\* San Francisco, California.  
*AFCR page 315A*
4. CHANGES IN ARRANGEMENT OF RED CELL MEMBRANE PROTEINS DURING ADENOSINE TRIPHOSPHATE DEPLETION. J. Palek, S.C. Liu,\* A. Liu,\* N. Fortier,\* L.M. Snyder, and G. Fairbanks,\* Worcester and Shrewsbury, Massachusetts.  
*AFCR page 316A*
5. PLATELET TRANSFUSION REFRACTORINESS AND DONOR SELECTION. K.K. Wu, J.C. Hoak,\*\* J.S. Thompson,\*\* and J.A. Koepke,\*\* Iowa City, Iowa.  
*AFCR page 323A*
6. ESSENTIAL PROTEINS FOR CONTACT ACTIVATION OF HAGEMAN FACTOR PATHWAYS. J.H. Griffin,\* G. Beretta,\* A. Kleiss,\* S.D. Revak,\* and C.G. Cochrane, La Jolla, California.  
*ASCI page 439A*
7. MULTIPLE MOLECULAR FORMS OF FACTOR VIII-RELATED ANTIGEN IN NORMAL PLASMA: RELATIONSHIP TO MOLECULAR ABNORMALITIES IN VON WILLEBRAND'S DISEASE. T.S. Zimmerman,\* C.F. Abildgaard,\* and T.S. Edgington (Intr. by N.R. Cooper), La Jolla and Sacramento, California.  
*ASCI page 444A*
8. PROSTAGLANDIN D<sub>2</sub>, A FEEDBACK INHIBITOR OF PLATELET AGGREGATION? O. Oelz,\* R. Oelz,\* B.J. Sweetman,\* and J.A. Oates,\*\* Nashville, Tennessee.  
*AFCR page 316A*



9. MEMBRANE MICROVISCOSITY AND PLATELET FUNCTION. S.J. Shattil, J. Turnbull,\* and R.A. Cooper, Philadelphia, Pennsylvania.  
*AFCR page 319A*
10. THE EFFECT OF CONTRACTILE PROTEIN ANTISERA ON POLYMORPHONUCLEAR LEUKOCYTE FUNCTION. L.A. Boxer,\* A. Floyd,\* S. Richardson,\* and R.L. Baehner (Intr. by W. Daly), Indianapolis, Indiana.  
*ASCI page 437A*
11. EFFECTS OF GRADED MYELOSUPPRESSION ON STEM CELL AND GRANULOCYTE GROWTH IN AN *IN-VIVO* CULTURE SYSTEM. W.S. Tyler, P. Quesenberry, M. Chovaniec,\* M. Ryan,\* and D. Howard,\* Boston, Massachusetts.  
*AFCR page 322A*
12. MOLECULAR BASIS FOR STIMULATION OF POLYMORPHONUCLEAR LEUKOCYTES BY IMMUNOGLOBULINS. I.M. Goldstein,\* H. Schieren,\* and G. Weissmann, New York, New York.  
*ASCI page 439A*
13. ACTIVATION OF GRANULOCYTE O<sub>2</sub><sup>-</sup> AND H<sub>2</sub>O<sub>2</sub> PRODUCTION BY THE IONOPHORE A23187. R.K. Root and J. Metcalf,\* New Haven, Connecticut.  
*AFCR page 318A*

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### Immunology and Connective Tissue

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#### Rutland Room, Haddon Hall

1:30 P.M.

Thomas A. Waldmann and Ralph C. Williams, Jr..

*Presiding*

1. ANTINUCLEAR ANTIBODY WITH DISTINCT SPECIFICITY IN POLYMYOSITIS. J.F. Wolfe\* and G.C. Sharp,\*\* Columbia, Missouri.  
*AFCR page 338A*
2. EFFECTIVE PROPHYLAXIS OF HEREDITARY ANGIOEDEMA BY AN IMPEDED ANDROGEN, DANAZOL. J.A. Gelfand,\* R.J. Sherins,\* D.W. Alling,\* and M.M. Frank, Bethesda, Maryland.  
*ASCI page 446A*
3. ALPHA-FETOPROTEIN IN CANCER-PRONE FAMILIES. R.H. Keller,\* H. Guirgis,\* H. Lynch,\* and T.B. Tomasi, Jr.,\*\* Rochester, Minnesota, and Omaha, Nebraska.  
*AFCR page 331A*
4. SUPPRESSION OF POLYMORPHONUCLEAR LEUKOCYTE CHEMOTAXIS BY SERA FROM PATIENTS WITH IMMUNOGLOBULIN A MYELOMA. D. Van Epps and R.C. Williams, Jr.,\*\* Albuquerque, New Mexico.  
*AFCR page 338A*
5. IMPAIRED IMMUNE SURVEILLANCE IN CHRONIC LYMPHOCYTIC LEUKEMIA AND SYSTEMIC LUPUS ERYTHEMATOSUS. M.M. Kuntz,\* J.B. Innes,\* and M.E. Weksler, New York, New York.  
*ASCI page 448A*
6. PRODUCTION OF EOSINOPHILOTACTIC PEPTIDES BY BRONCHOGENIC CARCINOMA *IN SITU* AND *IN VITRO*. E.J. Goetzl, R.H. Rubin,\* J. McDonough,\* A.H. Tashjian, Jr.,\* and K.F. Austen,\*\* Boston, Massachusetts.  
*ASCI page 447A*
7. NON-H-COMPLEX-LINKED B-LYMPHOCYTE ANTIGENS IN GLUTEN-SENSITIVE ENTEROPATHY AND DERMATITIS HERPETIFORMIS. S.I. Katz,\* D.L. Mann, D.L. Nelson,\* L.D. Abelson,\* and W. Strober, Bethesda, Maryland.  
*ASCI page 447A*
8. T DEPENDENT IMMUNOSUPPRESSION. J.D. Stobo,\* S. Paul,\* R. Van Scoy,\* and P. Hermans\* (Intr. by F.C. McDuffie), Rochester, Minnesota.  
*AFCR page 337A*
9. A HUMAN B CELL AND MONOCYTE ALLOANTIGEN SYSTEM SPATIALLY RELATED TO MEMBRANE Fc RECEPTORS. C.B. Carpenter, A.J.F. d'Apice,\* and J.-P. Soullilou,\* Boston, Massachusetts.  
*ASCI page 445A*
10. SAA—THE SERUM PRECURSOR OF THE AA PROTEIN. C.J. Rosenthal, E.C. Franklin,\*\* B. Frangione,\*\* and J. Greenspan, New York, New York.  
*ASCI page 449A*
11. RECONSTITUTION OF A CHILD WITH SEVERE COMBINED IMMUNODEFICIENCY AND TRANSPLANT-INDUCED APLASIA WITH MARROW FROM AN UNRELATED, HLA AND ABO NON-IDENTICAL, MIXED LYMPHOCYTE CULTURE COMPATIBLE DONOR. R.J. O'Reilly, B. Dupont, S. Pahwa, E. Grimes, R. Pahwa, S. Schwartz, E.M. Smithwick, A. Svejgaard, C. Jersild, J. Hansen, and R.A. Good,\*\* New York, New York.  
*AAP page 482A*
12. PASSIVE TRANSFER OF ONE PARAMETER OF CELL-MEDIATED IMMUNITY WITH DIALYZABLE TRANSFER FACTOR. J.M. Goust, E. Eylar,\* T.A. Mahvi,\* M. Arala-Chaves,\* and H.H. Fudenberg,\*\* Charleston, South Carolina.  
*AFCR page 328A*
13. *IN VITRO* ANTIBODY SYNTHESIS AND SUPPRESSION IN HUMORAL IMMUNODEFICIENCY STATES. H.M. Dosch\* and E.W. Gelfand\* (Intr. by R.P. Orange), Toronto, Ontario, Canada.  
*AAP page 481A*

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## Infectious Disease

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### Viking Room, Haddon Hall

1:30 P.M.

Ward E. Bullock and William B. Greenough,  
*Presiding*

1. THE NEONATAL FORMATION OF STREPTOCOCCAL BINDING SITES IN ORAL EPITHELIAL CELLS IN MAN. E.H. Beachey,\* I. Ofek,\* and F. Eyal\* (Intr. by G.H. Stollerman\*\*), Memphis, Tennessee. *ASCI page 451A*
2. THE NUDE MOUSE: A NEW EXPERIMENTAL MODEL FOR *PNEUMOCYSTIS CARINII* INFECTION. P.D. Walzer, V. Schnelle,\* D. Armstrong,\*\* and P.P. Rosen,\* New York, New York. *AFCR page 354A*
3. GONOCOCCAL ENDOCARDITIS AND HEPATITIS IN THE RABBIT. R.L. Kaspar\* and D.J. Drutz, San Antonio, Texas. *AFCR page 346A*
4. EVIDENCE FOR A SUBCELLULAR FACTOR IN GONOCOCCI TOXIC FOR HUMAN GENITAL MUCOSAL CELLS. Z.A. McGee, A.P. Johnson,\* and D. Taylor-Robinson,\* Nashville, Tennessee, and Harrow, England. *AFCR page 349A*
5. ANTIGENIC HETEROGENEITY AND ATTACHMENT ROLE OF GONOCOCCAL PILI. T.M. Buchanan,\* W.A. Pearce,\* G.K. Schoolnik,\* and K.K. Holmes, Seattle, Washington. *ASCI page 451A*
6. STIMULATION OF NEUTROPHIL METABOLISM BY ADHERENT AND INGESTED GONOCOCCI. P. Densen\* and G.L. Mandell, Charlottesville, Virginia. *AFCR page 342A*
7. PATHOGENIC POTENTIAL AND ANTIBODY RESPONSE TO ENCAPSULATED *BACTEROIDES FRAGILIS*. D.L. Kasper, A.B. Onderdonk,\* and J.G. Bartlett, Boston, Massachusetts. *AFCR page 346A*
8. SEROLOGICAL EVIDENCE FOR THE *IN VIVO* PRODUCTION OF LETHAL EXOTOXIN IN PATIENTS WITH PSEUDOMONAS INFECTIONS. M. Pollack, N.S. Taylor,\* and L.T. Callahan,\* Bethesda, Maryland. *AFCR page 351A*
9. INITIATION OF GRANULOCYTE O<sub>2</sub><sup>-</sup> AND H<sub>2</sub>O<sub>2</sub> FORMATION BY STIMULATION OF MEMBRANE PHAGOCYTTIC RECEPTORS. R.K. Root and J. Metcalf,\* New Haven, Connecticut. *AFCR page 352A*
10. RADIOIMMUNOASSAY FOR SCHISTOSOMIASIS USING PURIFIED EGG ANTIGEN. R.P. Pelley\* and K.S. Warren,\*\* Cleveland, Ohio. *AFCR page 351A*
11. MEMBRANE RECEPTOR FOR SHIGELLA TOXIN: ROLE OF N-ACETYL GLUCOSAMINE. G.T. Keusch and M. Jacewicz,\* New York, New York. *AFCR page 347A*
12. EFFECTS OF ENDOTOXIN (LPS) ON BLOOD COAGULATION IN HUMANS. H.R. Gralnick, R.J. Elin, E. Abrams,\* H. Givelber,\* and S.M. Wolff,\*\* Bethesda, Maryland. *AFCR page 344A*

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## Metabolism

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### Pennsylvania Room I, Haddon Hall

1:30 P.M.

Ralph S. Goldsmith and Daniel Porte,  
*Presiding*

1. HYPONENINEMIC HYPOALDOSTERONISM IN DIABETES MELLITUS. G. Perez, L. Lespier,\* J. Jacobi,\* J. Oster, F. Katz,\*\* C. Vaamonde,\*\* and L. Fishman,\*\* Miami, Florida, and Denver, Colorado. *AFCR page 367A*
2. MUSCLE CAPILLARY BASEMENT MEMBRANE MEASUREMENTS IN PREDIABETIC, DIABETIC, AND NORMAL PIMA INDIANS AND NORMAL CAUCASIANS. S.L. Aronoff,\* P.H. Bennett,\* J.R. Williamson,\* M.D. Siperstein,\*\* M.E. Plumer,\* and M. Miller,\*\* Phoenix, Arizona. *ASCI page 455A*
3. BINDING OF INSULIN TO ISOLATED NUCLEI: EVIDENCE FOR AN INTRACELLULAR SITE OF INSULIN ACTION. I.D. Goldfine\* and G.J. Smith\* (Intr. by M.D. Siperstein), San Francisco, California. *ASCI page 457A*
4. BIOCHEMISTRY AND PHYSIOLOGY OF A HUMAN SERUM NONSUPPRESSIBLE INSULIN-LIKE PROTEIN. P.L. Poffenbarger,\* A. Medina,\* M. Balch,\* and S. Lee\* (Intr. by W.P. Deiss, Jr.), Galveston, Texas. *ASCI page 460A*

5. GASTRIC INHIBITORY POLYPEPTIDE RELEASE AFTER ORAL GLUCOSE AND QUANTIFICATION OF ITS NORMAL ROLE IN INSULIN SECRETION. D.K. Andersen,\* J.C. Brown,\* J.D. Tobin,\* and R. Andres,\*\* Baltimore, Maryland, and Vancouver, British Columbia, Canada.  
*ASCI page 455A*
6. SELECTIVE FAILURE OF PROLONGED INFUSION OF INSULIN TO NORMALIZE GLUCAGON RESPONSES TO GLUCOSE IN HUMAN DIABETES MELLITUS: EVIDENCE FOR A DEFECTIVE  $\alpha$ -CELL GLUCORECEPTOR. J.E. Gerich, M. Lorenzi, E. Tsalikian, N. Bohanon, V. Schneider, J. Karam, P.H. Forsham, and S.B. Lewis, San Francisco and Oakland, California.  
*AFCR page 361A*
7. GLUCOSE AND 3-O-METHYLGLUCOSE PROTECTION AGAINST ALLOXAN INHIBITION OF GLUCAGON SECRETION. A.S. Pagliara, S.N. Stillings,\* A. Williams,\* W. Zawulich,\* and F.M. Matschinsky,\* St. Louis, Missouri.  
*ASCI page 459A*
8. COMPLETE BILIARY DIVERSION AND ORAL BILE ACID THERAPY IN HOMOZYGOUS FAMILIAL HYPERCHOLESTEROLEMIA. R.J. Deckelbaum,\* S.E. Hedberg,\* S.M. Grundy, D.M. Small, and R.S. Lees, Boston, Massachusetts, and San Diego, California.  
*ASCI page 456A*
9. METABOLISM OF HUMAN LIPOPROTEINS, HIGH DENSITY AND LOW DENSITY, BY FIBROBLASTS OF NORMAL AND OF HOMOZYGOUS FAMILIAL HYPERCHOLESTEROLEMIC SUBJECTS. N.E. Miller,\* D.B. Weinstein,\* and D. Steinberg,\*\* San Diego and La Jolla, California.  
*ASCI page 459A*
10. 25-HYDROXYVITAMIN D TRANSPORT IN HUMAN PLASMA: ISOLATION AND PARTIAL CHARACTERIZATION OF CALCIFIDIOL-BINDING PROTEIN. J.G. Haddad and J. Walgate,\* St. Louis, Missouri.  
*ASCI page 458A*
11. EFFECTS OF 25 HYDROXYVITAMIN D<sub>3</sub> IN THE INTACT AND ACUTELY THYROPARATHYROIDECTOMIZED DOG. R. Peraino,\* E. Ghafary,\* D. Rouse,\* and W.N. Suki, Houston, Texas.  
*ASCI page 460A*
12. MODULATION OF CULTURED BONE CELL MORPHOLOGY BY PARATHYROID HORMONE: POSSIBLE INTERPLAY BETWEEN MICROTUBULES AND MICROFILAMENTS. S.S. Miller, A.M. Wolf, and C.D. Arnaud,\*\* Rochester, Minnesota.  
*ASCI page 459A*
13. A STUDY OF THE PATHOGENESIS OF IDIOPATHIC HYPERCALCIURIA. F. Shen,\* D. Baylink, R. Nielsen,\* D. Sherrard,\* and M. Haussler,\* Seattle, Washington, and Tucson, Arizona.  
*ASCI page 460A*

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### Metabolism Poster Session

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#### Exhibit Hall

3:00-5:00 P.M.

1. METABOLIC ROLE OF KETONES IN STARVATION AND DIABETES: REGULATOR OF BRANCHED-CHAIN AMINO ACID OXIDATION. H. Paul\* and S. Adibi,\*\* Pittsburgh, Pennsylvania.  
*page 367A*
2. IMPAIRED INTESTINAL CALCIUM ABSORPTION IN POST-MENOPAUSAL OSTEOPOROSIS: POSSIBLE ROLE OF VITAMIN D METABOLITES AND PARATHYROID HORMONE. C. Gallagher,\* L. Riggs,\*\* J. Eisman,\* S. Arnaud,\*\* and H. DeLuca,\* Rochester, Minnesota, and Madison, Wisconsin.  
*page 360A*
3. SELECTIVE  $\beta_1$  RECEPTOR MEDIATION OF PARATHYROID HORMONE SECRETION. S.C. Kukreja, P. Banerjee,\* G. Ayala,\* E.N. Bowser,\* G.K. Hargis,\* W.J. Henderson,\* and G.A. Williams,\*\* Chicago, Illinois.  
*page 363A*
4. PROLINE METABOLISM IN CARTILAGE: AN IMPORTANT ROLE FOR PROLINE BIOSYNTHESIS. R.J. Smith,\* S.J. Downing,\* and J.M. Phang, Bethesda, Maryland.  
*page 371A*
5. DEVELOPMENTAL REGULATION OF PROLINE METABOLISM. E.M. Kowaloff,\* A.S. Granger,\* and J.M. Phang, Bethesda, Maryland.  
*page 363A*
6. INCREASED URINE NON-DIALYZABLE HYDROXYPROLINE IN SODIUM FLUORIDE TREATED PATIENTS WITH OSTEOPOROSIS. J. Rosenquist,\* E. Manzke,\* D. Baylink, J. Wergedal,\* R. Rawley,\* and G. Vose,\* Seattle, Washington, and Denton, Texas.  
*page 369A*
7. CARBOHYDRATE TRANSPORT, GLUCOSE METABOLISM, AND THEIR STIMULATION BY INSULIN IN ISOLATED RAT ADIPOSE CELLS: EFFECTS OF CELL SIZE. J.E. Foley,\* S.W. Cushman, and L.B. Salans, Hanover, New Hampshire.  
*page 360A*
8. EFFECTS OF DIET AND DRUGS ON PLASMA CHOLESTANOL AND BILIARY BILE ACID COMPOSITION IN CEREBROTENDINOUS XANTHOMATOSIS. A.K. Bhattacharyya and W.E. Connor,\*\* New Orleans, Louisiana, and Portland, Oregon.  
*page 356A*

9. PLASMA PROSTAGLANDINS IN HYPERCALCEMIC PATIENTS WITH NEOPLASTIC DISEASE. L. Demers,\* J. Allegra, H. Harvey,\* A. Lipton, J. Luderer,\* D. White,\* M. Gillin,\* and D. Brenner,\* Hershey, Pennsylvania.

page 359A

10. UPTAKE AND METABOLISM OF L-3,4-DIHYDROXYPHENYLALANINE IN ISOLATED INTESTINAL CELLS: FORMATION AND RELEASE OF DOPAMINE GLUCURONIDE. J.S. Stoff, M. Baranano,\* M.B. Berardino,\* and L. Landsberg, Boston, Massachusetts.

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## Oncology

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### West Room, Haddon Hall

1:30 P.M.

**Joseph Bertino and William L. McGuire,  
Presiding**

1. OSTEOSARCOMA: FIVE-YEAR FOLLOW-UP OF EPIDEMIOLOGY AND TUMOR SPECIFIC TRANSFER FACTOR THERAPY. V.S. Byers,\* A. Levin, L. LeCam,\* A. Hackett,\* and J. Johnston,\* Oakland, California. *AFCR page 378A*
2. MEASUREMENT OF SOLUBLE IMMUNE COMPLEXES: A GUIDE TO PROGNOSIS IN CANCER PATIENTS. R.D. Rossen,\* M.A. Reisberg,\* E.M. Hersch,\* and J.U. Gutterman,\* Houston, Texas. *ASCI page 462A*
3. HYPOGAMMAGLOBULINEMIA IN EXPERIMENTAL MYELOMA: THE ROLE OF SUPPRESSOR MONONUCLEAR PHAGOCYTES. R.S. Krakauer, W. Strober, and T.A. Waldmann,\* Bethesda, Maryland. *AFCR page 377A*
4. CELL SURFACE ALTERATIONS DISTINCTIVE OF COLON CARCINOMA. B.D. Kahan, L.P. Rutzy,\* B. Berlin,\* and B.H. Tom,\* Chicago, Illinois. *AAP page 488A*
5. FAMILIAL HODGKIN'S DISEASE: ASSOCIATION WITH MAJOR HISTOCOMPATIBILITY LOCI. T. Bowers,\* C.F. Moldow, C.D. Bloomfield,\* and E.J. Yunis,\* Minneapolis, Minnesota. *AFCR page 375A*
6. AZATHIOPRINE AS A MUTAGEN AND CARCINOGEN. J.J. Byrnes,\* K.M. Downey,\* V.L. Black,\* and A.G. So, Miami, Florida. *ASCI page 461A*
7. PLASMA STEROIDS AND CLINICAL RESPONSE WITH MEDICAL ADRENALECTOMY FOR ADVANCED BREAST CARCINOMA. H.H. Newsome, Jr., P. Brown,\* J. Terz,\* and W. Lawrence, Jr.,\* Richmond, Virginia. *AFCR page 379A*
8. A SPECIFIC MARKER FOR PROLACTIN RESPONSIVENESS IN EXPERIMENTAL BREAST CANCER:  $\alpha$ -LACTALBUMIN MESSENGER RIBONUCLEIC ACID. N.J. Nardacci\* and W.L. McGuire, San Antonio, Texas. *ASCI page 462A*
9. CORTICOSTEROID EFFECT ON GRANULOPOIESIS FOLLOWING CYCLOPHOSPHAMIDE. R.A. Joyce and P.A. Chervenick,\*\* Pittsburgh, Pennsylvania. *AFCR page 377A*
10. RESCUE OF METHOTREXATE TOXICITY TO MOUSE BONE MARROW: A COMPARISON BETWEEN CITROVORUM FACTOR AND NUCLEOSIDES. H.M. Pinedo,\* B.A. Chabner, and J.M. Bull, Bethesda, Maryland. *AFCR page 380A*
11. INHIBITION OF GROWTH OF NORMAL MURINE GRANULOCYTES BY CO-CULTURED ACUTE LEUKEMIC CELLS. A.M. Miller,\* P.L. Page,\* and S.H. Robinson,\*\* Boston, Massachusetts. *AFCR page 379A*
12. MODULATION OF GRANULOPOIETIC ACTIVITY BY INTERACTIONS BETWEEN LYMPHOCYTES AND MONOCYTES. R.W. Bolin\* and W.A. Robinson (Intr. by E. Genton), Denver, Colorado. *AFCR page 374A*
13. DEMONSTRATION OF TWO TYPES OF COLONY STIMULATING FACTOR IN NORMAL HUMAN SERUM. T. Mahmood\* and W.A. Robinson, Denver, Colorado. *AFCR page 379A*

Music Room, Chalfonte  
1:30 P.M.

Jerome Brody and Donald F. Tierney,  
*Presiding*

1. MORPHOLOGICAL DETERMINANTS OF MAXIMAL EXPIRATORY FLOW IN HUMAN LUNG. D.E. Niewoehner, J. Knoke,\* and J. Kleinerman,\* Cleveland, Ohio. *AFCR page 388A*
2. CHEMICAL AND NEURAL MECHANISMS IN ALVEOLAR HYPOVENTILATION. N. Wolkove,\* M.D. Altose,\* S.G. Kelsen,\* and N.S. Cherniack,\*\* Philadelphia, Pennsylvania. *AFCR page 391A*
3. THE CHEMICAL NATURE OF THE SURFACE SECRETION OF THE BRONCHIOLE. R. Kronenberg\* and R.V. Ebert,\*\* Minneapolis, Minnesota. *AAP page 489A*
4. EFFECTS OF PROSTAGLANDIN CYCLIC ENDOPEROXIDES ON THE PULMONARY CIRCULATION AND LUNG FLUID BALANCE IN AWAKE SHEEP. R.E. Bowers,\* E.F. Ellis,\* P.J. Owen,\* K.L. Brigham, and J.A. Oates,\*\* Nashville, Tennessee. *AFCR page 382A*
5. ANALYSIS OF BRONCHO-ALVEOLAR FLUID IN PATIENTS WITH HYPERSENSITIVITY PNEUMONITIS. H.Y. Reynolds, J.D. Fulmer,\* J.A. Kazmierowski,\* W.C. Roberts,\* M.M. Frank,\*\* and R.G. Crystal, Bethesda, Maryland. *AFCR page 388A*
6. CELLULAR ASPECTS OF COMPENSATORY LUNG GROWTH FOLLOWING PNEUMONECTOMY. R.E. Burki,\* J.S. Brody, and N.B. Kaplan,\* Boston, Massachusetts. *ASCI page 464A*
7. THE DISTRIBUTION AND CHARACTERIZATION OF TYPE III COLLAGEN IN ADULT HUMAN LUNG TISSUE. B.D. McLees,\* G. Schleiter,\* and S.R. Pinnell, Durham, North Carolina. *AFCR page 387A*
8. COMPARISON OF COLLAGEN CONCENTRATION, DISTRIBUTION AND SYNTHESIS IN FIBROTIC AND NORMAL LUNGS. J.D. Fulmer,\* R.S. Bienkowski,\* M.J. Cowan,\* K.H. Bradley,\* W.C. Roberts,\* and R.G. Crystal, Bethesda, Maryland. *AFCR page 384A*
9. HUMAN ALVEOLAR MACROPHAGE CHARACTERISTICS OF EXSMOKERS. J.O. Harris, G.N. Olsen, and J.R. Castle,\* Gainesville, Florida. *AFCR page 386A*
10. CESSATION OF SMOKING: EFFECT ON TRACHEOBRONCHIAL CLEARANCE OF INHALED PARTICLES. P. Werner,\* B.V. Joshi,\* R.V. Lourenco,\*\* P.S. Lee,\* and F.J. Hass,\* Chicago, Illinois. *AFCR page 391A*
11. THE EFFECT OF TOBACCO SMOKE ON THE METABOLIC FUNCTIONS OF ALVEOLAR MACROPHAGES. D.B. Drath,\* A. Harper,\* M.L. Karnovsky,\* and G. Huber\* (Intr. By M. Raben), Boston, Massachusetts. *ASCI page 464A*
12. ELEVATION OF GRANULOMATOUS LYMPH NODE AND SERUM LYSOZYME IN SARCOIDOSIS AND CORRELATION WITH ANGIOTENSIN CONVERTING ENZYME. E. Silverstein,\*\* J. Friedland,\* and T. Ackerman,\* Brooklyn, New York. *AFCR page 390A*
13. SEROTONIN-INDUCED BRONCHOCONSTRICTION IN DOGS: INTERACTION WITH THE CHOLINERGIC NERVOUS SYSTEM. H.L. Hahn,\* P.D. Graf,\* and J.A. Nadel,\*\* San Francisco, California. *ASCI page 465A*

Carolina Room, Chalfonte

1:30 P.M.

Maurice B. Burg and Jay H. Stein, *Presiding*

1. MALEIC ACID-INDUCED IMPAIRMENT OF CONVERSION OF 25-HYDROXYVITAMIN D<sub>3</sub> TO 1,25-DIHYDROXYVITAMIN D<sub>3</sub> *IN VIVO* AND *IN VITRO*: IMPLICATIONS FOR FANCONI'S SYNDROME. E.D. Brewer,\* H.C. Tsai,\* S. Szeto,\* and R.C. Morris, Jr.,\*\* San Francisco, California. *AFCR page 395A*
2. CONTROL OF AMMONIA EXCRETION IN THE RABBIT. H.L. Yu,\* R.A. Giammarco,\* M.B. Goldstein, B.J. Stinebaugh, and M.L. Halperin, Toronto, Ontario, Canada. *AFCR page 417A*
3. INHIBITION OF THE ANION EXIT STEP IN URINARY ACIDIFICATION BY A DISULFONIC STILBENE. L.H. Cohen,\* A. Mueller,\* and P.R. Steinmetz,\*\* Iowa City, Iowa. *AFCR page 396A*
4. AN EXTRARENAL ROLE FOR PARATHYROID HORMONE IN THE DISPOSAL OF ACUTE ACID LOADS. D.S. Fraley\* and S. Adler, Pittsburgh, Pennsylvania. *AFCR page 400A*
5. EVIDENCE FOR A CONCENTRATION GRADIENT FAVORING OUTWARD MOVEMENT OF SODIUM FROM THE THIN LOOP OF HENLE IN NONDIURETIC RATS. P.A. Johnston,\* C.A. Battilana,\* F.B. Lacy,\* and R.L. Jamison, Stanford, California. *ASCI page 468A*
6. EFFECT OF INDOMETHACIN, A PROSTAGLANDIN SYNTHESIS INHIBITOR, AND DIETARY SODIUM CHLORIDE ON SODIUM CONCENTRATION AND PLASMA FLOW IN RENAL PAPILLA. M. Ganguli,\* L. Tobian,\*\* S. Azar, and M. O'Donnell,\* Minneapolis, Minnesota. *ASCI page 467A*
7. DIRECT MEASUREMENT OF PAPILLARY COLLECTING DUCT SODIUM AND POTASSIUM TRANSPORT DURING SALINE DIURESIS IN THE RAT: EVIDENCE FOR NEPHRON HETEROGENEITY. R.W. Osgood,\* J.H. Stein, and R.T. Kunau,\* San Antonio, Texas. *ASCI page 469A*
8. PAPILLARY COLLECTING DUCT AND Juxtamedullary Nephron Function After Release of Bilateral Ureteral Ligation. J. Buerkert, M. Head,\* and S. Klahr, St. Louis, Missouri. *AFCR page 395A*
9. ANTIDIURETIC HORMONE ANTAGONISM ASSOCIATED WITH ACUTE RENAL ARTERY STENOSIS. O.G. Galvez,\* B.W. Roberts,\* W.H. Bay,\* and T.F. Ferris, Columbus, Ohio. *ASCI page 467A*
10. ROLE OF RENAL CYCLIC ADENOSINE MONOPHOSPHATE IN THE NATRIURESIS OF VOLUME EXPANSION. R.M. Friedler,\* C. Descoeurdes,\* K. Kurokawa,\* W.J. Kreusser,\* and S.G. Massry, Los Angeles, California. *ASCI page 467A*
11. ISOTONIC INTERCELLULAR SPACES DURING FLUID ABSORPTION COUPLED TO ACTIVE SALT TRANSPORT IN THE PARS RECTA. J.A. Schafer,\* C.S. Patlak,\* and T.E. Andreoli, Birmingham, Alabama, and Bethesda, Maryland. *AFCR 411A*
12. RELATIONSHIP BETWEEN p-AMINOHIPPURATE SECRETION AND CELLULAR MORPHOLOGY IN SUPERFICIAL AND Juxtamedullary Proximal Tubules. P.B. Woodhall,\* C.C. Tisher, C.A. Simonton,\* and R.R. Robinson,\*\* Durham, North Carolina. *AFCR page 417A*
13. LONG-TERM PREVENTION OF CALCIUM OXALATE NEPHROLITHIASIS BY CHRONIC THIAZIDE AND ALLOPURINOL ADMINISTRATION. F.L. Coe, Chicago, Illinois. *AFCR page 396A*

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Program—Subspecialty Meetings

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Sponsored by

**THE AMERICAN FEDERATION FOR CLINICAL RESEARCH**

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

Atlantic City, New Jersey

SUNDAY EVENING, MAY 2, 1976

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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 I, 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*  
Renal and Electrolyte Poster Session, Exhibit Hall  
† *Followed by a symposium.*

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Cardiovascular III

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Carolina Room, Chalfonte

7:30 P.M.

Robert Roberts and Douglas Zipes,  
*Presiding*

1. LYSIS OF ACUTELY THROMBOSED AORTO-CORONARY VEIN GRAFTS BY LOCAL INFUSION OF THROMBOLYSIN. E. Byrne-Quinn, L.I. Schocket,\* J. Silverman,\* R.G. Sanderson,\* and W.C. Wilcox,\* Tucson, Arizona. *page 211A*
2. ISOPROTERENOL AS A CAUSE OF ACUTE ST ELEVATION WITHOUT MYOCARDIAL ISCHEMIA. G.R. Nelson,\* S.J. Fischl,\* and E.S. Kirk, Bronx, New York. *page 233A*
3. WHAT IS THE CORONARY HEMODYNAMIC SIGNIFICANCE OF THE LENGTH OF A CORONARY ARTERY OBSTRUCTION? R.L. Feldman,\* W.W. Nichols, and C.J. Pepine, Gainesville, Florida. *page 216A*
4. PURKINJE FIBER SURVIVAL FOLLOWING HUMAN MYOCARDIAL INFARCTION. L.N. Horowitz, J.F. Spear, H. MacVaugh, III,\* and E.N. Moore,\*\* Philadelphia, Pennsylvania. *page 223A*
5. EFFECTS OF QUINIDINE ON THE ATRIAL VULNERABLE PERIOD. A.H. Calon,\* A.N. Damato,\*\* A.R. Ticzon,\* A.R. Caracta, M. Akhtar, C.P. Reddy,\* and C.R. Carambas,\* Staten Island, New York. *page 212A*
6. CHRONIC ELECTROPHYSIOLOGICAL STUDY OF PATIENTS WITH PAROXYSMAL TACHYCARDIA. D. Wu, C. Wyndham, P. Denes, R. Miller,\* and K. Rosen, Chicago, Illinois. *page 247A*
7. ANALYSIS OF WARNING ARRHYTHMIA PRIOR TO VENTRICULAR TACHYCARDIA DURING ACUTE MYOCARDIAL INFARCTION IN MAN. D.F. Meacham,\* N. de Soyza, J. Bissett, J. Kane,\* and M. Murphy,\*\* Little Rock, Arkansas. *page 230A*
8. EFFECTS OF VERAPAMIL ON CARDIAC PERFORMANCE IN CONSCIOUS DOGS. R.K. Newman,\* E.J. Leroux,\* D.F. Peterson,\* V.S. Bishop,\* and L.D. Horwitz, San Antonio, Texas. *page 233A*

9. THE ORIGINS OF LATE VENTRICULAR RHYTHMS AND THEIR ACTIVATION PATTERNS IN EXPERIMENTAL SEPTAL INFARCTION IN DOGS. E.L. Michelson, S.R. Spielman,\* J.F. Spear, and E.N. Moore,\*\* Philadelphia, Pennsylvania. *page 231A*
10. DIGITALIS IN BI- AND TRIFASCICULAR CONDUCTION DISEASE: ITS EFFECT ON THE HV INTERVAL. S. Kauffman,\* J.H. McNulty,\* H. DeMots,\* E. Murphy,\* and S.H. Rahimtoola,\*\* Portland, Oregon. *page 224A*

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## Cardiovascular IV

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**Music Room, Chalfonte**

**7:30 P.M.**

**Albert Most and Suzanne Oparil,**

*Presiding*

1. IDENTIFICATION OF DOUBLE OUTLET RIGHT VENTRICLE BY TWO-DIMENSIONAL ECHOCARDIOGRAPHY. W.L. Henry, B.J. Maron,\* J.M. Griffith,\* and S.E. Epstein, Bethesda, Maryland. *page 222A*
2. CONTINUOUS VENTRICULAR DIMENSIONS IN MAN DURING SUPINE BICYCLE EXERCISE AND RECOVERY. R.A. Stein,\* D. Michielli,\* E. Fox,\* M. Sloan,\* and N. Krasnow,\*\* Brooklyn, New York. *page 241A*
3. EVALUATION OF GLOBAL AND REGIONAL FUNCTION FOLLOWING VENTRICULOGRAPHY BY ISOVOLUMIC AND EJECTION PHASE INDICES. V.S. Mathur, P.R. Hernandez-Lattuf, E. Garcia,\* P.J. Hogan,\* and R.J. Hall,\* Houston, Texas. *page 229A*
4. COMPARISON OF REGIONAL MYOCARDIAL FLOW MEASUREMENTS WITH SCINTILLATION CAMERA DETECTION OF XENON-133 AND RADIOACTIVE MICROSPHERES. S.M. Morgan,\* J.D. Fisher,\* and L.D. Horwitz (Intr. by R.N. Schnitzler), San Antonio, Texas. *page 232A*
5. REDISTRIBUTION OF THALLIUM-201 FOLLOWING TRANSIENT MYOCARDIAL ISCHEMIA. G.M. Pohost, G.A. Beller, R.H. Moore,\* K.A. McKusick,\* and L.M. Zir,\* Boston, Massachusetts. *page 235A*
6. REPRODUCIBILITY AND RELIABILITY OF THALLIUM-201 MYOCARDIAL IMAGING. P. McLaughlin,\* R. Martin,\* S. Daspit,\* M. Goris,\* W. Haskell,\* S. Lewis,\* P. Doherty,\* D. Harrison,\*\* and J. Kriss,\*\* Stanford, California. *page 230A*
7. EVALUATION OF MYOCARDIAL SCAR: ANGIOGRAPHIC AND PATHOLOGIC CORRELATES IN AN ANIMAL MODEL. B. Haider, C. Lee,\* M. Ahmad,\* and T.J. Regan,\*\* Newark, New Jersey. *page 220A*
8. INFARCT SIZING IN AWAKE, UNSEDATED DOGS WITH ACUTE ANTERIOR MYOCARDIAL INFARCTS. L. Poliner,\* L.M. Buja, E.M. Stokely,\* R.W. Parkey,\* M.J. Stone, F.J. Bonte,\* and J.T. Wilkerson, Dallas, Texas. *page 235A*
9. LEFT VENTRICULAR WALL MOTION IN SUB-ENDOCARDIAL INFARCTION EVALUATED BY ECHOCARDIOGRAPHY. S. Rasmussen,\* B.C. Corya,\* H. Feigenbaum,\*\* and S.B. Knoebel,\*\* Indianapolis, Indiana. *page 237A*
10. DIRECT NONINVASIVE EVALUATION OF MECHANISM OF ACTION OF CARDIOSELECTIVE BETA BLOCKING AGENTS IN PATIENTS WITH ANGINA PECTORIS USING EXERCISE RUBIDIUM-81 MYOCARDIAL IMAGING. A.F. Salel, D. Berman,\* G. DeNardo,\*\* and D.T. Mason,\*\* Davis, California. *page 239A*



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## Clinical Pharmacology

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Teakwood Room, LaFayette

7:30 P.M.

Lewis Landsberg and W.L. Thompson,  
*Presiding*

1. CLINICAL EFFICACY OF NITROPRUSSIDE IN REDUCING EXTENT OF ISCHEMIC INJURY AND IMPROVING PUMP FUNCTION IN ACUTE MYOCARDIAL INFARCTION: EVALUATION BY PRECORDIAL ST SEGMENT MAPPING AND CARDIAC CATHETERIZATION. N.A. Awan,\* R.R. Miller, Z. Vera, A.N. DeMaria, E.A. Amsterdam and D.T. Mason,\*\* Davis, California. *page 251A*
2. CATECHOL METABOLISM IN RAT INTESTINAL MUCOSA: A MAJOR ROUTE INVOLVING GLUCURONIDATION. L. Landsberg, M.B. Berardino,\* J.B. Young,\* and J. Stoff, Boston, Massachusetts. *page 256A*
3. CATECHOLAMINE CLEARANCE BY THE ISOLATED PERFUSED RAT KIDNEY: PREFERENTIAL EXCRETION AND METABOLISM OF EPINEPHRINE. P. Silva, A. Besarab, and L. Landsberg, Boston, Massachusetts. *page 258A*
4. INDEPENDENT MODULATION OF RENAL CORTICAL CYCLIC ADENOSINE MONOPHOSPHATE AND CYCLIC GUANOSINE MONOPHOSPHATE CONTENT BY CYCLIC NUCLEOTIDE PHOSPHODIESTERASE. T.V. Zenser, P.A. Craven,\* F.R. DeRubertis, and B.B. Davis, Pittsburgh, Pennsylvania. *page 260A*
5. ANTIPYRINE AND INDOCYANINE GREEN AS INDICATORS OF DRUG DISPOSITION DURING ACUTE VIRAL HEPATITIS. R.L. Williams,\* T.F. Blaschke, P.J. Meffin,\* K.L. Melmon, and M. Rowland,\* San Francisco and Palo Alto, California, and Manchester, England. *page 259A*
6. PHARMACOKINETICS OF DIGOXIN IN THE RABBIT. H. Ochs,\* G. Bodem,\* B. Louven,\* G. Bahles,\* D.J. Greenblatt, and T.W. Smith, Bonn, Germany, and Boston, Massachusetts. *page 257A*
7. CORRELATION OF PROPRANOLOL PLASMA LEVEL WITH EFFECT IN PATIENTS WITH ESSENTIAL TREMOR. R.G. McAllister, Jr., R.W. Ware,\* W.R. Markesbery,\* and S.M. Howell,\* Lexington, Kentucky. *page 257A*
8. STABLE ISOTOPE-MASS SPECTROMETRIC MEASUREMENT OF L-DOPA METABOLISM IN RAT BRAIN. C.R. Freed\* and R.C. Murphy\* (Intr. by C.A. Chidsey\*\*), Denver, Colorado. *page 254A*
9. DPAVP(1-DEAMINO-[2-PHENYLALANINE, 8 ARGININE]-VASOPRESSIN): A VASOPRESSIN ANALOG WITH SELECTIVE MICROVASCULAR ACTIONS FOR THE TREATMENT OF CIRCULATORY SHOCK. B.M. Altura, Brooklyn, New York. *page 250A*
10. ACTIVE UPTAKE OF <sup>3</sup>H-PROPRANOLOL BY ISOLATED ALVEOLAR MACROPHAGES. R.E. Vestal, D.M. Kornhauser,\* and D.G. Shand, Nashville, Tennessee. *page 259A*

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## Dermatology

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Garden Room, Haddon Hall

7:30 P.M.

Eugene Bauer and Lowell Goldsmith,  
*Presiding*

1. SYNTHESIS OF PROCOLLAGEN AND ELASTIN BY EMBRYONIC AORTA CELLS. J. Uitto\* and D.J. Prockop,\*\* St. Louis, Missouri, and Piscataway, New Jersey. *page 268A*
2. PREPARATION AND ULTRASTRUCTURAL FEATURES OF THE HUMAN CUTANEOUS BASEMENT MEMBRANE-ANCHORING FIBRIL COMPLEX. M.R. Heaphy\* and R.K. Winkelmann,\*\* Rochester, Minnesota. *page 263A*
3. CONTROL OF HYALURONIC ACID ACCUMULATION IN DERMAL FIBROBLASTS. S.I. Lamberg and N.J. Joseph,\* Baltimore, Maryland. *page 265A*
4. XERODERMA PIGMENTOSUM FIBROBLASTS' POST-ULTRAVIOLET COLONY-FORMING ABILITY REFLECTS THE PATIENT'S NEUROLOGICAL STATUS. A.D. Andrews,\* S.F. Barrett,\* and J.H. Robbins,\*\* Bethesda, Maryland. *page 260A*
5. STAPHYLOCOCCAL EXFOLIATIN METABOLISM IN NEONATAL AND ADULT MICE. P. Fritsch,\* P.M. Elias,\* and J. Vargas\* (Intr. by W.L. Epstein), New Haven, Connecticut, and San Francisco, California. *page 263A*
6. IMMUNOELECTRONMICROSCOPIC LOCALIZATION OF IMMUNOGLOBULIN A IN SKIN OF PATIENTS WITH *DERMATITIS HERPETIFORMIS*. H. Yaoita\* and S.I. Katz, Bethesda, Maryland. *page 268A*
7. HERPES GESTATIONIS: CHARACTERIZATION OF HG FACTOR. G. Tappeiner,\* K.G. Heine,\* and R.E. Jordon, Rochester, Minnesota. *page 268A*
8. *IN VITRO* AND *IN VIVO* CHARACTERIZATION OF HUMAN MELANOMA CELLS. A.A. Creasey,\* A. Hackett,\* H. Smith,\* K. Fukuyama,\*\* and W. Epstein,\*\* Oakland and San Francisco, California. *page 262A*

9. ISOLATION OF SUBSTRATES FOR EPIDERMAL TRANSGLUTAMINASE FROM BOVINE EPIDERMIS. M.M. Buxman, G.E. Buehner,\* and K.D. Wuepper, Portland, Oregon. *page 262A*
10. HUMAN EPIDERMAL RIBONUCLEASES. B. Brant,\* S.W. Melbye,\* and I.M. Freedberg, Boston, Massachusetts. *page 261A*

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## Endocrinology II

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### Rutland Room, Haddon Hall

7:30 P.M.

Daryl Granner and John Wilber,

*Presiding*

1. DISPARATE REGULATION OF THE PROLACTIN RECEPTOR IN LIVER AND MAMMARY GLAND. J.I. Stagner,\* J. Cyrus,\* and B.M. Sherman, Iowa City, Iowa. *page 278A*
2. RESPONSE OF PLASMA ADRENOCORTICOTROPIC HORMONE TO THYROTROPIN RELEASING FACTOR, VASOPRESSIN OR HYPOGLYCEMIA IN CUSHING'S DISEASE AND NELSON'S SYNDROME. M. Luria\* and D.T. Krieger,\*\* New York, New York. *page 274A*
3. PITUITARY FUNCTION AND STRUCTURE WITH INCREASING THYROID IMPAIRMENT. E.C. Ridgway, S.T. Bigos,\* I.A. Kourides, and F. Mallof,\*\* Boston, Massachusetts. *page 277A*
4. DIRECT IDENTIFICATION OF ECTOPIC  $\beta$ -ADRENERGIC RECEPTOR BINDING SITES IN AN ADRENAL CARCINOMA WITH (-) [<sup>3</sup>H] DIHYDROALPRENOLOL. L.T. Williams,\* T.B. Gore,\* and R.J. Lefkowitz, Durham, North Carolina. *page 280A*
5. "PERMISSIVE" EFFECT OF GLUCOCORTICOIDS ON PORPHYRIN FORMATION IN CULTURED CHICK EMBRYO LIVER CELLS. S.E. Lane,\* A.S. Gidari,\* and R.D. Levere,\*\* Brooklyn, New York. *page 274A*
6. RECIPROCAL CHANGES IN SERUM TRIIODOTHYRONINE AND REVERSE SERUM TRIIODOTHYRONINE INDUCED BY ALTERING THE CARBOHYDRATE CONTENT OF THE DIET. E. Danforth, Jr., E.D. Tyzbir,\* E.S. Horton,\*\* E.A.H. Sims,\*\* A.G. Burger, L.E. Braverman,\*\* A.G. Vagenakis, and S.H. Ingbar,\*\* Burlington, Vermont; Geneva, Switzerland; Worcester and Boston, Massachusetts. *page 271A*
7. THE EFFECT OF VARYING SERUM THYROXINE CONCENTRATIONS ON EXTRATHYROIDAL PRODUCTION OF SERUM TRIIODOTHYRONINE, REVERSE SERUM TRIIODOTHYRONINE, AND 3-3' DIIODOTHYRONINE. K.D. Burman, R.C. Dimond, R.A. McGuire,\* J.M. Earll,\*\* D. Strum,\* and L. Wartofsky, Washington, D.C., and Bethesda, Maryland. *page 270A*
8. *IN UTERO* TREATMENT OF FETAL GOITER WITH A NON-HALOGENATED THYROXINE ANALOG. F. Comite,\* G.N. Burrow, and E.C. Jorgensen,\* New Haven, Connecticut, and San Francisco, California. *page 271A*
9. THYROID HORMONE STIMULATES FORMATION OF MESSENGER RIBONUCLEIC ACID AND POLY-A-CONTAINING NUCLEAR RIBONUCLEIC ACID. W.H. Dillmann,\* J. Mendelcki,\* D. Koerner,\* H.L. Schwartz,\* U. Thakare,\* and J.H. Oppenheimer,\*\* Bronx, New York. *page 271A*
10. IMPORTANCE OF THE INTRACELLULARLY FORMED TRIIODOTHYRONINE IN THE REGULATION OF CELL METABOLISM. S. Refetoff, F. Delange,\* H. Berquist,\* V.S. Fang,\* V. Van Humskerke,\* H. Seo,\* and A.M. Ermans,\* Chicago, Illinois; Brussels, Belgium; and Zaire. *page 276A*

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## Gastroenterology II

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Viking Room, Haddon Hall

7:30 P.M.

Allan Cooke and Michael Levitt,

*Presiding*

1. REGULATION OF RAT PROXIMAL SMALL INTESTINAL ENZYME ACTIVITY BY ILEAL GLUCOSE PERFUSION. J. Espinoza,\* S.B. Clark,\* A. Hritz,\* and N.S. Rosensweig, New York, New York. *page 283A*
2. IDENTIFICATION OF TWO DISTINCT CHOLECYSTOKININ RECEPTORS IN PANCREATIC ACINAR CELLS. B.W. Long\* and J.D. Gardner, Bethesda, Maryland. *page 287A*
3. INTESTINAL ABSORPTION OF LEUCINE FROM DI-, TRI- AND TETRAPEPTIDES IN RATS. Y.C. Chung,\* D.B.A. Silk,\* and Y.S. Kim,\*\* San Francisco, California. *page 282A*
4. EFFECT OF CELIAC SPRUE ON FOLATE DIGESTION AND ABSORPTION. C.H. Halsted, D. Cantor,\* A. Reisenauer,\* and J. Romero,\* Davis, California. *page 285A*
5. INFECTION AND IMMUNITY IN AN ANIMAL MODEL OF GIARDIASIS. D.P. Stevens, I.C. Roberts-Thomson,\* A.A.F. Mahmoud, and K.S. Warren, Cleveland, Ohio. *page 292A*
6. STRUCTURE-ACTIVITY RELATIONS OF SECRETIN: BIOLOGICAL EFFECTIVENESS OF C-TERMINAL SEQUENCES. M. Schebalin,\* M.L. Fink,\* M. Bodanszky,\* and G.M. Makhlof,\*\* Richmond, Virginia, and Cleveland, Ohio. *page 290A*
7. IMPAIRED RELEASE OF SECRETIN IN CELIAC SPRUE. R.A. Rhodes,\* W.Y. Chey,\*\* H.H. Tai,\* and R. Escoffery,\* Rochester, New York. *page 290A*
8. SOMATOSTATIN SUPPRESSES MEAL-STIMULATED PANCREATIC SECRETIONS. R.M. Wilson,\* G. Boden,\*\* N. Essa-Koumar,\* and L.S. Shore,\* Philadelphia, Pennsylvania, and Piscataway, New Jersey. *page 293A*

### Symposium

#### "The Gastrointestinal Sphincter"

Moderator: Allan R. Cooke

Participants:

1. WHAT IS A SPHINCTER? James Christensen, University of Iowa, Iowa City, Iowa.
2. THE LOWER ESOPHAGEAL SPHINCTER *IN VITRO*. David J. deCarle, University of Iowa, Iowa City, Iowa.
3. THE LOWER ESOPHAGEAL SPHINCTER *IN VIVO*. Jose Behar, Yale University, New Haven, Connecticut.

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## Gastroenterology III

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West Room, Haddon Hall

7:30 P.M.

Peter Loeb and Francis Simon, *Presiding*

1. LONG CHAIN ACYL-COENZYME A INHIBITION OF HEPATIC ACETYL-COENZYME A CARBOXYLASE: MODULATION BY CYTOPLASMIC PROTEINS. M.R. Lunzer,\* J.A. Manning,\* and R.K. Ockner, San Francisco, California. *page 287A*
2. EFFECT OF FASTING AND PHENOBARBITAL ON HEPATIC URIDINE DIPHOSPHATE-GLUCURONIC ACID METABOLISM. B.F. Felsher, N.M. Carpio,\* and K. VanCouvering,\* Long Beach, California. *page 284A*
3. THE ORIGIN OF CHYLOMICRON LECITHIN. C.M. Mansbach, II, Durham, North Carolina. *page 288A*
4. EFFECT OF PHENOBARBITAL AND THYROIDECTOMY ON HEPATIC (Na-K)-ADENOSINE TRIPHOSPHATASE ACTIVITY AND BILE FLOW. F.R. Simon, E. Sutherland,\* J. Cersonsky,\* and L. Accatino,\* Denver, Colorado. *page 291A*
5. CHARACTERISTIC PLASMA AMINO ACID ABNORMALITIES IN THE ALCOHOLIC: RESPECTIVE ROLES OF ALCOHOLISM, NUTRITION AND LIVER INJURY. S. Shaw\* and C.S. Lieber,\*\* Bronx and New York, New York. *page 291A*
6. PREVENTION OF HB<sub>s</sub>Ag CARRIER STATE IN NEONATES BY LARGE DOSES OF CONVENTIONAL GAMMA GLOBULIN. R.R. Varma,\* Milwaukee, Wisconsin. *page 292A*

7. SELECTIVE EFFECTS OF VASOPRESSIN ON CANINE SPLANCHNIC CIRCULATIONS. J.C. Kerr,\* D.G. Reynolds,\*\* and K.G. Swan,\*\* Newark, New Jersey. *page 287A*
8. DIAGNOSIS OF BACTERIAL OVERGROWTH OR ILEAL DYSFUNCTION IN CHILDREN BY USE OF A STABLE ISOTOPE BREATH TEST, <sup>13</sup>C GLYCOCHOLATE. N.W. Solomons,\* D. Schoeller,\* J. Wagonfeld,\* D. Ott,\* F. Viteri,\* P. Klein,\* and I. Rosenberg, Chicago and Argonne, Illinois; Los Alamos, New Mexico; and Guatemala City, Guatemala. *page 291A*

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## Hematology II

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**Windsor Room, Haddon Hall**

**7:30 P.M.**

**Jose Corcino and B.G. Forget, Presiding**

1. BETA-ADRENERGIC MODULATION OF *IN VITRO* ERYTHROPOIESIS. J.E. Brown\* and J.W. Adamson, Seattle, Washington. *page 304A*
2. POTENTIATION OF ERYTHROPOIESIS *IN VITRO* BY THYROID HORMONES. D.W. Golde, N. Bersch,\* I.J. Chopra, and M.J. Cline,\*\* Los Angeles, California. *page 309A*
3. THE ROLE OF CYCLIC ADENOSINE MONOPHOSPHATE IN REGULATING HEMIN-CONTROLLED REPRESSOR ACTIVITY IN INTACT RABBIT RETICULOCYTES. M.L. Freedman, J.M. Wildman,\* and J. Rosman,\* New York, New York. *page 308A*
4. DISSOCIATION OF ERYTHROID MATURATION AND HEMOGLOBIN SYNTHESIS IN ERYTHROLEUKEMIA CELLS. B.P. Alter\* and S.C. Goff\* (Intr. by A.B. Deisseroth), Boston, Massachusetts. *page 302A*
5. LOW TITER COLD HEMAGGLUTININ DISEASE: MECHANISM OF HEMOLYSIS AND RESPONSE TO HIGH DOSE CORTICOSTEROIDS. A.D. Schreiber, B. Herskowitz,\* and M. Goldwein,\* Philadelphia, Pennsylvania. *page 319A*
6. HEREDITARY HEMOLYTIC ANEMIA ASSOCIATED WITH ERYTHROCYTE POTASSIUM LOSS AND DEHYDRATION: A FAMILY STUDY. B.E. Glader, N.L. Fortier and L.M. Snyder, Boston and Worcester, Massachusetts. *page 309A*
7. CORRECTION OF IMPAIRED ERYTHROCYTE HEXOSE MONOPHOSPHATE SHUNT METABOLISM IN LIVER DISEASE BY NICOTINAMIDE ADENINE DINUCLEOTIDE PHOSPHATE. J.R. Smith,\* N.E. Kay,\* A.J. Gottlieb, and F.O. Oski, Syracuse, New York. *page 320A*
8. MECHANISM OF HEPATOCYTE RELEASE OF VITAMIN B<sub>12</sub> INTO PLASMA. J.F. Kolhouse\* and R.H. Allen, St. Louis, Missouri. *page 312A*
9. CELLULAR FLUX AND COUNTERFLUX OF VITAMIN B<sub>12</sub>. R.A. Gams and F. Ostroy,\* Birmingham, Alabama. *page 308A*
10. OXYGEN EQUILIBRIUM STUDIES OF HEMOGLOBIN HOPE. M.H. Steinberg, B.J. Dreiling, and J.G. Adams, Jackson, Mississippi, and Chicago, Illinois. *page 321A*

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## Hematology III

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Vernon Room, Haddon Hall

7:30 P.M.

John Adamson and John Hutton, *Presiding*

1. ACTIVATION OF HUMAN FACTOR VIII/VON WILLEBRAND FACTOR GLYCOPROTEIN. H.R. Gralnick, B.S. Collier, and J. Fenton, II,\* Bethesda, Maryland, and Albany, New York. *page 310A*
2. CIRCULATING INHIBITORS OF BLOOD COAGULATION DIRECTED AGAINST COMPONENTS OF THE CONTACT PHASE AND PROTHROMBIN ASSOCIATED WITH PROCAINAMIDE-INDUCED LUPUS ERYTHEMATOSUS. S. Davis, B.C. Furie,\* J.H. Griffin,\* R. Willey,\* and B. Furie, Boston, Massachusetts, and La Jolla, California. *page 306A*
3. THE INHIBITION OF HUMAN ACTIVATED HAGEMAN FACTOR BY HUMAN ANTI-THROMBIN-HEPARIN COFACTOR. N.W. Stead,\* A.P. Kaplan, and R.D. Rosenberg\* (Intr. by P.A. McKee), Boston, Massachusetts, and Bethesda, Maryland. *page 321A*
4. COVALENT MODIFICATION OF AN ADENOSINE DIPHOSPHATE RECEPTOR IN HUMAN PLATELET MEMBRANES. J.S. Bennett,\* W. Figures,\* R.F. Colman,\* and R.W. Colman, Philadelphia, Pennsylvania, and Newark, Delaware. *page 303A*
5. HUMAN PLATELET MEMBRANE RECEPTOR FOR IMMUNE COMPLEXES: ISOLATION OF RECEPTOR FOR IMMUNOGLOBULIN G Fc FRAGMENT BY AFFINITY CHROMATOGRAPHY. J. Hawiger, C.M. Cheng,\* and S. Timmons,\* Nashville, Tennessee. *page 310A*
6. RADIOIMMUNOASSAY OF HUMAN PLASMA THROMBOPLASTIN ANTECEDENT. H. Saito and G. Goldsmith,\* Cleveland, Ohio. *page 318A*
7. RISTOCETIN PRECIPITATION TEST: A NEW SIMPLE AND SENSITIVE TEST FOR DETECTION OF FIBRIN MONOMER AND FIBRIN DEGRADATION PRODUCTS IN PLASMA. K. Watanabe\* and J.L. Tullis\* (Intr. by C.A. Alper), Boston, Massachusetts. *page 322A*
8. BIOCHEMICAL MECHANISM OF RISTOCETIN INDUCED AGGLUTINATION OF PLATELETS. B.S. Collier and H.R. Gralnick, Bethesda, Maryland. *page 305A*
9. DISSOCIATION OF FACTOR VIII IN THE PRESENCE OF PROTEOLYTIC INHIBITORS AND PREVENTION OF RE-AGGREGATION BY 0.002 M CaCl<sub>2</sub>. I.I. Sussman\* and H.J. Weiss,\*\* Jamaica and New York, New York. *page 321A*
10. EFFECT OF ALTERING FIBRINOGEN CONCENTRATION ON RATE OF FIBRINOGEN SYNTHESIS IN RABBITS. B.M. Alving,\* W.R. Bell,\* and B.L. Evatt, Baltimore, Maryland. *page 302A*

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## Immunology and Connective Tissue II

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Pennsylvania Room I

7:30 P.M.

Roger D. Rossen and Ralph Snyderman,  
*Presiding*

1. DIFFERENTIAL EFFECTS OF DEXAMETHASONE ADMINISTRATION ON SUBPOPULATIONS OF EFFECTOR CELLS MEDIATING CELLULAR CYTOTOXICITY IN HUMANS. J.E. Parrillo\* and A.S. Fauci, Bethesda, Maryland. *page 334A*
2. CORTICOSTEROIDS IN HUMAN LYMPHOCYTE-MEDIATED CYTOTOXIC REACTIONS. J.E. Balow, G.W. Hunninghake,\* and A.S. Fauci, Bethesda, Maryland. *page 325A*
3. ANTIBODY-DEPENDENT CELLULAR CYTOTOXICITY IN AUTOIMMUNITY. M.J. Becker,\* J.L. Feldman,\* H. Moutsopoulos,\* K. Fye,\* and N. Talal, San Francisco, California. *page 325A*
4. PROLIFERATIVE RESPONSES OF HUMAN PERIPHERAL BLOOD LYMPHOCYTES TO MURINE B CELL MITOGENS. R.R. Rich and J.M. Chandler,\* Houston, Texas. *page 335A*

5. LOW FREQUENCY OF HLA-B27 IN AMERICAN BLACKS WITH ANKYLOSING SPONDYLITIS. M.A. Khan,\* W.E. Braun,\*\* and I. Kushner,\*\* Cleveland, Ohio. *page 331A*
6. EFFECT OF ENDOTOXIN ON THE IMMUNE SYSTEM IN MAN. R.P. Gale, G. Opelz, and D.W. Golde, Los Angeles, California. *page 327A*
7. ABSENT SUPPRESSOR CELLS AND AUTOIMMUNITY IN HYPOGAMMAGLOBULINEMIA. D.L. Nelson,\* R.M. Blaese, W. Strober, A.R. Page,\* and T.A. Waldmann, Bethesda, Maryland, and Minneapolis, Minnesota. *page 333A*
8. POSSIBLE ROLE OF CYCLIC ADENOSINE MONOPHOSPHATE IN THE ANTI-INFLAMMATORY EFFECTS OF ALCOHOL. J.P. Atkinson, T.J. Sullivan, and C.W. Parker,\*\* St. Louis, Missouri. *page 324A*

## Symposium

### "Macrophages and Tumor Immunity"

Moderator: Ralph Snyderman

#### Participants:

1. ROLE OF MACROPHAGES IN TUMOR IMMUNITY *IN VIVO*. H.S. Shin, Johns Hopkins University, Baltimore, Maryland.
2. MACROPHAGE-MEDIATED TUMOR CYTOTOXICITY *IN VITRO*. W.H. Churchill, Harvard Medical School, Boston, Massachusetts.
3. A MECHANISM BY WHICH NEOPLASMS MAY ESCAPE IMMUNE SURVEILLANCE. R. Snyderman, Duke University Medical Center, Durham, North Carolina.

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## Infectious Disease II

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**Ramada Inn**

**7:30 P.M.**

**Merle Sande and Fred Sparling,  
Presiding**

1. A HEURISTIC APPROACH TO HOSPITAL-ACQUIRED PNEUMONIA. J.P. O'Keefe,\* J.G. Bartlett, F.P. Tally, and S.L. Gorbach, Boston, Massachusetts. *page 350A*
2. MECHANISMS OF IMPAIRMENT OF PULMONARY ANTIBACTERIAL DEFENSES INDUCED BY STRESS. G. Huber and J. Mullane, Boston, Massachusetts. *page 345A*
3. INHIBITION OF HUMAN BACTERICIDAL ACTIVITY BY GONOCOCCAL ENDOTOXIN. P.A. Rice,\* D.L. Kasper, and C. Solstad,\* Boston, Massachusetts. *page 352A*
4. PROTECTION AGAINST FATAL *ESCHERICHIA COLI* AND *KLEBSIELLA* BACTEREMIA FOLLOWING PNEUMOCOCCAL IMMUNIZATION. L.S. Young, Los Angeles, California. *page 355A*
5. IMMUNOGLOBULIN G ANTIBODIES AGAINST TYPE SPECIFIC PSEUDOMONAS LIPOPOLYSACCHARIDES DETECTED BY RADIOIMMUNOASSAY. R. Kohler,\* H.B. Devlin,\* M.W. Fisher,\* and A. White,\*\* Detroit, Michigan, and Indianapolis, Indiana. *page 347A*
6. PRELIMINARY RESULTS OF A TRIAL OF PNEUMOCOCCAL POLYSACCHARIDE VACCINE. H.E. Krause\* and M.A. Mufson,\*\* Chicago, Illinois. *page 348A*
7. DETECTION OF ANTIBODIES TO *BACTEROIDES FRAGILIS* IN PATIENTS BY RADIOIMMUNOASSAY. W.L. Hoppes, J.W. Smith,\* J.P. Rissing,\* and A.C. White,\*\* Indianapolis, Indiana. *page 345A*
8. COUNTERCURRENT IMMUNOELECTROPHORESIS IN ASEPTIC MENINGITIS. R.L. Brown,\* F.L. Garrity,\* F. Meglio,\* and S.H. Zinner, Providence, Rhode Island. *page 341A*
9. TOXOPLASMOSIS AND SUPPRESSION OF GRANULOMATOUS HYPERSENSITIVITY. A.A.F. Mahmoud, G.T. Strickland, and K.S. Warren,\*\* Cleveland, Ohio, and Bethesda, Maryland. *page 349A*
10. THE ROLE OF THE SYMPATHETIC NERVOUS SYSTEM IN THE GENERALIZED SHWARTZMAN REACTION. W.K. Bolton and N.O. Atuk, Charlottesville, Virginia. *page 341A*

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## Metabolism II

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### Pennsylvania Room III, Haddon Hall

7:30 P.M.

**Coy D. Fitch and Phillip Poffenbarger,**  
*Presiding*

1. SURFACE RECEPTOR CHANGES IN DIABETIC RATS. V. Chandramouli,\* J.S. Marshall,\*\* and J.R. Carter, Jr.,\*\* Cleveland, Ohio. *page 358A*
2. RELATIONSHIP OF INSULIN BINDING TO FUNCTION IN CULTURED EMBRYONIC HEART CELLS. A.C. Santora,\* F.B. Wheeler,\* and L.J. Elsas, Atlanta, Georgia. *page 369A*
3. HYPERGLUCAGONEMIA IN STARVATION: KEY ROLE OF DECREASED HORMONAL CATABOLISM. R. Sherwin, M. Fisher,\* R. Hendler,\* and P. Felig, New Haven, Connecticut. *page 370A*
4. SUBMAXILLARY GLAND HYPERGLYCEMIC FACTOR IN MAN AND ANIMALS: AN EXTRAPANCREATIC GLUCAGON. A.M. Lawrence, L. Kirsteins,\* S. Hojvat,\* L. Rubin,\* J. Mitton,\* S. Pearce,\* and R. Kacherian,\* Hines and Maywood, Illinois. *page 364A*
5. GLUCAGON AND KETOGENESIS IN ACUTE DIABETES. U. Keller,\* J.L. Chiasson,\* J.E. Liljenquist, A.D. Cherrington,\* A.S. Jennings,\* and O.B. Crofford,\*\* Nashville, Tennessee. *page 363A*
6. METABOLIC ASPECTS OF ALCOHOLIC KETOACIDOSIS. R.E. Heinig,\* P.D. Miller,\* and C. Waterhouse,\*\* Rochester, New York. *page 362A*

7. GASTRIC INHIBITORY POLYPEPTIDE RELEASE AFTER ORAL GLUCOSE AND QUANTIFICATION OF ITS ROLE IN INSULIN SECRETION IN STATES OF GLUCOSE INTOLERANCE. D.K. Andersen,\* J.D. Tobin, and R. Andres,\*\* Baltimore, Maryland. *page 355A*
8. MYOINOSITOL AND NERVE CONDUCTION VELOCITIES FOLLOWING RENAL TRANSPLANTATION. R.S. Clements, Jr., A.G. Diethelm, and S.J. Oh,\* Birmingham, Alabama. *page 358A*

### Symposium

#### "Disease of Skeletal Muscle"

**Moderator:** Coy D. Fitch

#### **Participants:**

1. METABOLIC ADAPTATION OF SKELETAL MUSCLE. John O. Holloszy, Washington University, St. Louis, Missouri.
2. SIGNIFICANCE OF ABNORMALITIES OF CREATINE METABOLISM. Coy D. Fitch, St. Louis University, St. Louis, Missouri.
3. THE MUSCLE CELL IN CHRONIC ALCOHOLISM. James P. Knochel, University of Texas Southwestern Medical School at Dallas, Dallas, Texas.

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## Pulmonary II

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### Solarium, Haddon Hall

7:30 P.M.

**W.G. Johanson, Jr., and Paul Stevens,**  
*Presiding*

1. THE RELATIONSHIP BETWEEN SITE OF FLOW LIMITATION AND MECHANISMS OF OBSTRUCTION IN EXERCISE INDUCED ASTHMA. R.L. Haynes,\* J.J. Wellman,\* R.H. Ingram, Jr., and E.R. McFadden, Jr., Boston, Massachusetts. *page 386A*
2. THE EFFECT OF DEEP INSPIRATION ON MAXIMUM EXPIRATORY FLOW RATES IN ASTHMATIC SUBJECTS. J.E. Fish,\* T.J. Kehoe,\* and D.W. Cugell,\*\* Chicago, Illinois. *page 384A*
3. PULMONARY LYMPH: SMOOTH-MUSCLE CONTRACTING ACTIVITY AND ITS INCREASE DURING HYPOXIC VENTILATION IN DOGS. N. Hara and S.I. Said,\*\* Dallas, Texas. *page 385A*

4. PULMONARY CONGESTION FOLLOWING RAPID SALINE INFUSION. R.F. Farney,\* A.H. Morris, R.M. Gardner,\* and J.D. Armstrong,\* Salt Lake City, Utah. *page 384A*
5. DOSE-DEPENDENT DECREASE OF PULMONARY TRANSVASCULAR FLUID FILTRATION IN AWAKE NEWBORN LAMBS AFTER INTRAVENOUS FUROSEMIDE. R.D. Bland, D.D. McMillan,\* and W.H. Tooley,\* San Francisco, California. *page 382A*
6. DEPRESSION OF VENTILATORY DRIVE BY CLINICAL SEMI-STARVATION. R.C. Doekel,\* C.W. Zwillich,\* C.H. Scoggin,\* M.H. Kryger,\* and J.V. Weil, Denver, Colorado. *page 383A*

7. FAMILIAL ASPECTS OF DECREASED HYPOXIC VENTILATORY RESPONSE IN ENDURANCE RUNNERS. C.H. Scoggin, C.W. Zwillich,\* R.B. Doekel, M.H. Kryger, and J.V. Weil,\* Denver, Colorado. *page 389A*
8. PATTERNS OF PROTEINS IN HUMAN BRONCHOPULMONARY LAVAGE FLUIDS. F.E. Thompson\* and K.H. Kilburn,\*\* Columbia, Missouri. *page 390A*
9. GLYCOSAMINOGLYCAN COMPOSITION OF HUMAN LUNG AT VARIOUS AGES. R.M. Bruce, A.M. Raab,\* and J.A. Pierce,\*\* St. Louis, Missouri. *page 383A*
10. THE INFLUENCE OF THE LIPID EXTRACT OF ALVEOLAR LINING MATERIAL ON ALVEOLAR MACROPHAGE BACTERICIDAL CAPACITY *IN VITRO*. W.W. Cook,\* J.B. McCurdy,\* and R.M. Rogers, Oklahoma City, Oklahoma. *page 383A*

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### Renal and Electrolyte III

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Pennsylvania Room II, Haddon Hall

7:30 P.M.

J.W. Coburn and Neil Kurtzman,

*Presiding*

1. THE ROLE OF RENAL ISCHEMIA IN THE INITIATION OF URANYL NITRATE INDUCED ACUTE RENAL FAILURE IN THE DOG. R.H. Mauk,\* M.D. Lifschitz, and J.H. Stein, San Antonio, Texas. *page 406A*
2. THE KALLIKREIN-KININ SYSTEM IN BARTTER'S SYNDROME AND ITS RESPONSE TO PROSTAGLANDIN SYNTHETASE INHIBITION. J.M. Vinci,\* D.A. Telles,\* R.E. Bowden,\* J.L. Izzo, Jr.,\* H.R. Keiser,\*\* N. Radfar,\* A.A. Taylor, J.R. Gill, Jr.,\*\* and F.C. Bartter,\*\* Bethesda, Maryland. *page 414A*
3. MECHANISM OF ANGIOTENSIN II-INDUCED PROTEINURIA. M.P. Bohrer,\* J.L. Troy,\* W.M. Deen, C.R. Robertson,\* and B.M. Brenner, San Francisco and Stanford, California. *page 394A*
4. ON THE MECHANISM OF ABNORMAL URINARY CONCENTRATION IN HYPOKALEMIA: EVIDENCE AGAINST A CYCLIC ADENOSINE MONOPHOSPHATE AND A PROSTAGLANDIN MEDIATED MECHANISM. T. Berl, R. Anderson, G. Aisenbrey,\* K. McDonald, and R. Schrier, Denver, Colorado. *page 393A*
5. INDUCTION OF RENAL LYSOSOME FORMATION DURING POTASSIUM-DEPLETION NEPHROPATHY. F.G. Toback, H.N. Aithal,\* B.H. Spargo,\* S. Dube,\* and G.S. Getz,\* Chicago, Illinois. *page 413A*
6. THE EFFECT OF DISTRIBUTION AND CLEARANCE ON PLASMA VASOPRESSIN IN MAN. D. Maxwell, S. McMurray,\* J. Szwed, R. Shelton,\* and G. Robertson, Indianapolis, Indiana. *page 407A*
7. RENAL PERFUSION PRESSURE AND SODIUM EXCRETION. N. Lameire\* and R. Kunau, Minneapolis, Minnesota, and San Antonio, Texas. *page 404A*
8. POLYELECTROLYTE COMPLEXES: AGGREGATION AND DEPOSITION IN THE GLOMERULUS. Z. Sharon,\* M.M. Schwartz,\* and E.J. Lewis, Chicago, Illinois. *page 411A*

#### Symposium

**“Functional and Structural Evidence of Nephron Heterogeneity in the Mammalian Kidney”**

**Moderator:** Heinz Valtin

**Participants:**

1. INTRODUCTION. Heinz Valtin, Dartmouth Medical School, Hanover, New Hampshire.
2. THE PROXIMAL TUBULE. Juha P. Kokko, University of Texas Southwestern Medical School, Dallas, Texas.
3. THE DISTAL TUBULE. C. Craig Tisher, Duke University Medical Center, Durham, North Carolina.



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Renal and Electrolyte Poster Session

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**Exhibit Hall**

**7:00-9:00 P.M.**

1. DEMONSTRATION OF INCREASED PROTEOLYSIS IN ISOLATED UREMIC MUSCLE. H. Harter, I. Karl,\* S. Klahr, and D. Kipnis,\*\* St. Louis, Missouri. *page 402A*
2. CONSIDERATIONS OF THE PATHOPHYSIOLOGY OF ACUTE RENAL FAILURE. R.W. Baehler, J. Burke,\* T.A. Kotchen, J.H. Galla, and C.E. Ott, Lexington, Kentucky. *page 392A*
3. RETENTION OF URINARY PRODUCTS AS A STIMULUS TO COMPENSATORY RENAL HYPERTROPHY. R.H. Harris, Durham, North Carolina. *page 401A*
4. TUBULOGLOMERULAR FEEDBACK DURING HEMORRHAGIC HYPOTENSION: A ROLE FOR EXTRARENAL FACTORS. J. Kaufman,\* R. Hamburger, and W. Flamenbaum, Washington, D.C. *page 404A*
5. A RAPID METHOD FOR THE DIAGNOSIS OF ACUTE URIC ACID NEPHROPATHY. J.G. Kelson,\* E.W. Holmes, and W.N. Kelley, Durham, North Carolina. *page 404A*
6. PERIPHERAL NEUROPATHY AND ACUTE RENAL FAILURE: STUDIES IN PATIENTS AND ANIMALS. J.D. Cooper,\* R. Guisado, and A.I. Arief, San Francisco, California. *page 396A*
7. THE EFFECT OF NUTRITIONAL THERAPY ON PROGRESSION OF CHRONIC RENAL FAILURE: QUANTITATIVE ASSESSMENT. W.E. Mitch and M. Walser,\*\* Baltimore, Maryland. *page 407A*
8. AUTOREGULATION OF KIDNEY FILTRATION RATE AND DISTAL GLOMERULAR FILTRATION RATE IN CONTROL AND SPONTANEOUSLY HYPERTENSIVE RATS. D.W. Ploth, J. Schnermann,\* and H. Dahlheim,\* Birmingham, Alabama, and Munich, West Germany. *page 409A*
9. RELATION BETWEEN SODIUM TRANSPORT AND GLUCONEOGENESIS IN THE ISOLATED PERFUSED RAT KIDNEY. P. Silva, B.D. Ross,\* and F.H. Epstein,\*\* Boston, Massachusetts. *page 412A*
10. THE EFFECTS OF O<sub>2</sub> ON CYCLIC ADENOSINE MONOPHOSPHATE SYSTEMS OF RENAL MEDULLA. T.V. Zenser and B.B. Davis, Pittsburgh, Pennsylvania. *page 417A*

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**MEETING FOR AFRCR WOMEN**

**MONDAY, MAY 3, 1976**

**(See listing under Specialty Clubs, page 204)**

**ALL PERSONS REGISTERED AT NATIONAL MEETING WELCOME**

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Program

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Eighty-ninth Annual Meeting

THE ASSOCIATION OF AMERICAN PHYSICIANS

Pennsylvania Room, Haddon Hall

Atlantic City, New Jersey

TUESDAY, MAY 4, 1976

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MORNING SESSION 9:00 A.M.

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General Business Meeting 9:00 A.M.

Presidential Address

Lloyd H. Smith, Jr.

Scientific Session

Lloyd H. Smith, Jr., *Presiding*

1. PROSTAGLANDINS ARE OVERPRODUCED BY THE KIDNEYS AND MEDIATE HYPERRENINEMIA IN BARTTER'S SYNDROME. F.C. Bartter, J.R. Gill, Jr.,\* J.C. Frolich,\* R.E. Bowden,\* J.W. Hollifield,\* H.R. Keiser,\* J.A. Oates, H. Seyberth,\* and A.A. Taylor,\* Bethesda, Maryland, and Nashville, Tennessee. *page 490A*
2. CHARACTERIZATION OF THE GROUP OF HYPERCALCEMIC CANCER PATIENTS WHO RESPOND TO TREATMENT WITH PROSTAGLANDIN SYNTHESIS INHIBITORS. H.W. Seyberth,\* G.V. Segre,\* P. Hamet,\* J.T. Potts, and J.A. Oates, Nashville, Tennessee, and Boston, Massachusetts. *page 488A*
3. MECHANISM FOR ABNORMAL CALCIUM METABOLISM IN SARCOIDOSIS. N.H. Bell,\* T.K. Sinha,\* and H.F. DeLuca\* (Intr. by W.J. Daly), Indianapolis, Indiana, and Madison, Wisconsin. *page 484A*
4. ROLE OF VITAMIN E IN REGULATING MALARIA EXPRESSION. J. Eckman,\* J.W. Eaton,\* and H.S. Jacob\* (Intr. by C.J. Watson) Minneapolis, Minnesota. *page 480A*
5. STRIATE MUSCLE DYSFUNCTION IN IRON DEFICIENCY. C.A. Finch and Bruce Mackler,\* Seattle, Washington. *page 480A*
6. THE EFFECT OF SYNTHETIC ANDROGENS ON THE CLINICAL COURSE AND C<sup>-</sup> ESTERASE INHIBITOR LEVELS IN HEREDITARY ANGIOEDEMA. W.F. Rosse, G.L. Logue,\* and H.R. Silberman,\* Durham, North Carolina. *page 482A*
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8. REGULATION IN HEALTHY SUBJECTS OF THE SECRETION OF A NEWLY RECOGNIZED PANCREATIC ISLET POLYPEPTIDE. J.C. Floyd, Jr.,\* S.S. Fajans, and S. Pek,\* Ann Arbor, Michigan. *page 485A*
9. LONG-ACTING THYROID STIMULATOR PROTECTOR ASSAY AS A BASIS FOR IDENTIFICATION OF SUBGROUPS OF GRAVES' OPHTHALMOPATHY. D.H. Solomon, I.J. Chopra,\* U. Chopra,\* and F. Smith,\* Los Angeles, California. *page 477A*
10. INTRODUCTION OF MISSING ENZYMES INTO THE CYTOPLASM OF CULTURED MAMMALIAN CELLS BY MEANS OF FUSION-PRONE LIPOSOMES. G. Weissman, C. Cohen,\* and S. Hoffstein,\* New York, New York. *page 479A*

\*By invitation.

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

**Presentation of  
The George M. Kober Medal  
to George W. Thorn  
by George F. Cahill, Jr.**

**Scientific Session  
Robert G. Petersdorf, *Presiding***

11. PREVENTION OF PNEUMOCOCCAL PNEUMONIA BY VACCINATION. R. Austrian, R.M. Douglas,\* G. Schiffman,\* A.M. Coetzee, H.J. Koornhof,\* S. Hayden-Smith,\* and R.D.W. Reid,\* Philadelphia, Pennsylvania; Brooklyn, New York and Pretoria, Johannesburg, and Boksburg, South Africa.  
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12. TARGETED MASS TREATMENT: A NEW APPROACH TO THE CONTROL OF SCHISTOSOMIASIS. K.S. Warren and A.A.F. Mahmoud,\* Cleveland, Ohio.  
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13. HIGH FREQUENCY OF Pi DEFICIENT PHENOTYPES OF ALPHA-1-ANTITRYPSIN IN NON-ATOPIC ASTHMA OF CHILDREN. P. Arnaud,\* C. Chapuis-Cellier,\* G. Souillet,\* R. Carron,\* R. Creysel,\* and H.H. Fudenberg, Lyon, France, and Charleston, South Carolina.  
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14. DEFECTS IN IMMUNOGLOBULIN A SECRETION AND IN IMMUNOGLOBULIN A SPECIFIC SUPPRESSOR CELLS IN PATIENTS WITH ISOLATED IMMUNOGLOBULIN A DEFICIENCY. T.A. Waldmann, S. Broder,\* R. Krakauer,\* M. Durm,\* B. Meade,\* and C. Goldman,\* Bethesda, Maryland.  
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15. EVIDENCE FOR CORONARY VASOSPASM IN PATIENTS WITH ISCHEMIC HEART DISEASE. G.H. Mudge, Jr.,\* W. Grossman,\* R.M. Mills, Jr.,\* M. Lesch,\* and E. Braunwald, Boston, Massachusetts.  
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16. A NEW LOOK AT THE METABOLISM OF THE ARTERIAL WALL. A.D. Morrison,\* L. Orci,\* L. Berwick,\* and A.L. Winegrad, Philadelphia, Pennsylvania, and Geneva, Switzerland.  
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**The Distinguished Lecture  
"Pyrrolic Victories"  
Rudi Schmid**

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