



The Society for Pediatric Research
PROGRAM and ABSTRACTS
Thirty-sixth Annual Meeting

Steel Pier

Atlantic City, New Jersey

April 29-30, 1966

SOCIETY FOR PEDIATRIC RESEARCH

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SOCIETY FOR PEDIATRIC RESEARCH

Program

Friday, April 29, 1966, 9:00 A.M.

FIRST PLENARY SESSION

Steel Pier - Moderator: Robert E. Cooke

1. Presidential Address - Robert E. Cooke
2. Mesenteric Blood Flow and Volume in Shock. Warren G. Guntheroth, John P. Lintermans*, Anthony J. Appel*, and Gay L. Mullins*. Univ. of Wash. Sch. of Med., Seattle. (p. 1)
3. The Experimental Relationship Between Vitamin D and Supravalvular Aortic Stenosis. William F. Friedman* and William C. Roberts*, National Heart Institute, Bethesda, Maryland. (Intr. by Robert E. Cooke.) (p. 1)
4. Effect of Lactation on an Experimental Arteriosclerotic, Aging-Like Syndrome in the Rat. Ralph F. Strebel,* and Bernard M. Wagner, New York Medical College, New York. (p. 2)
5. Distribution of Total and Non-Protein Bound Calcium in Fetal and Maternal Plasmas of Man and Sheep Maria-Delivoria-Papadopoulos*, Paul D. Bruns*, Giacomo Meschia* and Frederick C. Battaglia, Univ. of Colorado Sch. of Med. (p. 2)
6. Development of Enzymes for Urea Biosynthesis in Rat and Human Liver. Niels C. R. Raiha* and Jukka Suihkonen*, Univ. of Helsinki Sch. of Med. (Intr. by Norman Kretschmer) (p. 3)
7. Glucose Homeostasis in the Newborn Puppy. David T. Allen*, David Kornhauser*, and Robert Schwartz. Western Reserve University School of Medicine, Cleveland Metropolitan General Hospital, Cleveland, Ohio. (p. 3)

8. The Prophylactic Role of Complement (C') in Immunological Renal Injury. Steven C. Mohos*, New York Med. Col. (Intr. by Bernard M. Wagner) (p. 4)
9. In Vitro Demonstration of Cellular Sensitivity in Auto-immune Nephrosis. Warren E. Grupe*, Western Reserve University School of Medicine, (Intr. by W. M. Wallace) (p. 4)

Friday, April 29, 1966, 2:00 P.M.

SECOND PLENARY SESSION

Steel Pier - Moderator: Charles W. Daeschner, Jr.

10. Greetings from the European Club for Pediatric Research. Pierre Royer.
11. Greetings from the Sociedad de Investigacion Pediatrica. Caesar Bergado.
12. Experimental Adrenal Cortical Hyperplasia: Second Model Produced with a Specific Inhibitor of 11β -Steroid Hydroxylase (11β -OHase). Allen S. Goldman*, William C. Yakovac, and Alfred M. Bongiovanni, Children's Hosp. of Phila. (p. 5)
13. The Significance of Thyrocalcitonin (TCT) and the Thyroid Gland in Calcium Homeostases. Constantine S. Anast, Claude D. Arnaud*, and Howard Rasmussen*. Univ. of Missouri, Sch. of Med. and Univ. of Pennsylvania, Sch. of Med. (p. 5)
14. Onset of Function in the Human Fetal Thyroid: Biochemical and Radioautographic Studies from Organ Culture. Thomas H. Shepard. Univ. of Wash. Sch. of Med. Seattle. (p. 6)
15. Protein-Malnutrition Induced Erythrocytopathy. Philip Lanzkowsky*, David McKenzie*, Sidney Katz*, R. Hoffenberg*, Ruth Friedman*, and Elizabeth Black*, (Intr. by Wallace W. McCrory.) Univ. of Cape Town, South Africa (p. 6)

16. Impaired Leukocyte Phagocytic and Bactericidal Capacity in Myelogenous Leukemia. James G. White and Paul G. Quie. University of Minnesota Medical School. (p. 7)
17. Intestinal Cytochrome Response with Repair of Iron Deficiency. Peter R. Dallman*, Philip Sunshine*, Yolanda I. Leonard*, Stanford Univ. Sch. of Med. (Intr. by Herbert C. Schwartz) (p. 7)
18. Metabolism of Lipoproteins in the Developing Brain, Norbert Herschkowitz*, Guy M. McKhann and Eric M. Shooter*, Stanford Univ. Sch. of Med. (p. 8)
19. "Jumpiness" of Adult C57BL/6 Mice as a Marker for Sibling Deprivation in Infancy. Use of the Infant Mouse as a Rapidly Maturing and Reproducing and Genetically Stable Mammal for the Study of Early Physical and Social Factors Influencing Adult Behavior. Michael K. Nicholson*, and D. Carleton Gajdusek, Nat. Inst. of Health, Bethesda, Md. (p. 8)

Friday, April 29, 1966, 8:00 P.M.

BUSINESS MEETING

(Members Only)

Seaside Hotel - Ocean Room

Saturday, April 30, 1966, 9:00 A.M.

THIRD PLENARY SESSION

Steel Pier - Moderator: Irving Schulman

20. Abnormal Luekocyte Kinetics--an Explanation for the Enzyme Abnormalities Observed in Trisomy-21 (Down's Syndrome), S. O. Raab*, W. J. Mellman, F. A. Oski and D. Baker*, Dept. of Med., Women's Med. Col.; Dept. of Ped., Hosp. of the Univ. of Pa. and Univ. of Pa. Sch. of Med., Phila., Pa. and The Elwyn School, Elwyn, Pa. (p. 9)

21. Predictable Properties of X-Linked Alleles During Selection. Henry N. Kirkman, Univ. of North Carolina Sch. of Med., Chapel Hill, N. C. (p.9)
22. Interferon and Host Resistance to Virus-Induced Leukemia L. A. Glasgow*, and S. B. Friedman*, Univ. of Rochester Sch. of Med., Rochester, N. Y. (Intr. by R. Haggerty) (p.10)
23. Transfer of Immunologic Memory in Man With Low Molecular Weight Nucleic Acids. Philip Fireman. Zaky H. Haddad*, Mary Boesman*, and David Gitlin. Children's Hosp. and the Univ. of Pittsburgh Sch. of Med. (p.10)
24. The Biologic Roles of Fetal Thymic Hormone, Minnie J. Elders* and William T. Kniker*, Univ. of Ark. Sch. of Med. (Intr. by Edwin R. Hughes) (p.11)
25. The Effect of Age on the Synthesis of Herpes Simplex Virus by Rabbit Skin in Vitro. Joseph W. St. Geme, Jr. and Josephine M. Brumbaugh*, U. C. L. A. Sch. of Med. and Univ. of Minn. Med. Sch. (p.11)
26. Rate of Protein Synthesis in Premature Infants. John F. Nicholson*, Columbia Univ., New York, N. Y. (Intr. by Edward C. Curnen, Jr.) (p.12)
27. Muscle Cell Growth in Rats with Exposure to Hypoxia and Food Restriction. Donald A. Elliott* and Donald B. Cheek Johns Hopkins Hospital, Baltimore (p.12)
28. Isovaleric Acidemia: A New Genetic Defect of Leucine Metabolism. Lewis B. Holmes*, Kay Tanaka*, Matthew A. Budd*, and John D. Crawford. Mass. Gen. Hosp. and Harvard Med. Sch., Boston. (p.13)

Saturday, April 30, 1966, 2:00 P.M.

SPECIAL SESSIONS

Cardiology, Pulmonary Physiology
Chalfonte-Haddon Hall, Viking Room
Moderator: Herbert S. Harned, Jr.

29. --2:00 The Flow of Fetal Lung Fluid. Forrest H. Adams, Donald T. Desilets* and Bernard Towers*, Univ. of Calif., Los Angeles. (p.13)
30. --2:20 Studies of Respiratory Compensatory in Metabolic Acidosis. M. S. Albert*, R. B. Dell*, W. J. Rahill*, and R. W. Winters, Babies Hospital, New York, N. Y. (p. 14)
31. --2:40 Skin-Electrode Impedance and its Effect on Recording Cardiac Potentials. Madison S. Spach, Roger C. Barr*, James W. Havstad*, and E. Croft Long* Duke Univ. Med. Ctr. (p. 14)
32. --3:00 Dynamics of Pulmonary Venous Circulation. Beverly C. Morgan*, David H. Dillard*, and Warren G. Guntheroth. Univ. of Wash. Sch. of Med., Seattle. (p. 15)
33. --3:20 Transitional Respiratory Distress (TRD) in Premature Newborns. John J. Downes*, Subhash C. Arya, * Grant Morrow*, and Thomas R. Boggs: Penna. Hosp. and the Depts. of Ped. and Anesth. of The Sch. of Med., U. P. (p. 15)
34. --3:40 Ventricular Pressure Flow Dynamics in Ventricular Septal Defects. Aaron R. Levin*, Ramon V. Canent, Jr. *, Madison S. Spach, John P. Boineau*, Vishnu Jain*, and M. Paul Capp*. Duke Univ. Med. Ctr. (p. 16)
35. --4:00 Contour Plot Spectral Phonocardiography. Lowell W. Perry*, David E. Winer*, Lewis P. Scott*, Cesar A. Caceres*. Heart Disease Control Program, USPHS, Children's Hospital of D. C., George Washington Univ., Wash., D. C. (Intr. by Robert H. Parrott) (p. 16)

- 36.--4:20 Normal Standards for Cardiovascular Hemodynamics. L. Jerome Krovetz, Mitchell, M. B.* and Schiebler, G. L., Univ. of Fla. (p.17)
- 37.--4:40 Effect of Beta Adrenergic Substances on the T Wave Changes in the ECG of the Normal Newborn. Leonard Steinfeld,* and Ivan Dimich,* Mount Sinai Hosp., N. Y. (Intr. by Horace Hodes) (p.17)

DEVELOPMENTAL BIOLOGY

Chalfonte-Haddon Hall, Rutland Room

Moderator: Gerard B. Odell

- 38.--2:00 Pulmonary Capillary Permeability to Plasma Proteins of Adult Dogs and Pups. P. M. Taylor, U. Boonyaparakob*, V. Waterman*, and D. W. Watson*, Dept. of Ped., Univ. of Pitt. and Magee-Womens Hosp., Pittsburgh, Pa. (p.18)
- 39.--2:20 Biochemical Determination of "High Risk" Pregnancy. A. Louis Southren*, Alan B. Weingold* and Yutaka Kobayashi*, New York Med. Coll. and Worcester Found. for Exp. Biol. (Intr. by Miriam Lending) (p.18)
- 40.--2:40 Serum Ionic Magnesium in Exchange Transfusions. Leo Stern*, Ronald L. Denton*, Prakash C. Bajpai* and Donald Sugden*. McGill Univ. (Intr. by Paul Taylor) (p.19)
- 41.--3:00 Effects of Early Feeding on Premature Newborn Infants. Paul Y. K. Wu* and Peter A. Teilmann*, Michael Reese Hosp., Chicago. (Intr. by Jack Metcoff) (p.19)
- 42.--3:20 Physiologic Observations of the Normal Fetus in Utero. Abraham M. Rudolph and Michael Heymann*, Albert Einstein College of Med., New York, N. Y. (p.20)
- 43.--3:40 Effects of Hypoxia and Acidity on the Initiation of Respiration. Herbert S. Harned, Jr., William S. Berryhill, Jr.*, Clarence A. Griffin*, and Loren G. MacKinney. Univ. of N. C. Sch. of Med. (p.20)

- 44.--4:00 Glycogen Metabolism after Prolonged Hypoxia in Newborn Rabbits. Uwe Stave, Fels Res. Inst., Yellow Springs, Ohio. (p. 21)
- 45.--4:20 Energy Substrates in the Respiratory Distress Syndrome. John Downes*, Lois Johnson, Subhash Arya*, and Thomas Boggs, Penna. Hosp. and the Depts. of Ped. and Anes. of Sch. of Med., Univ. of Penna., Philadelphia, Pa. (p. 21)
- 46.--4:40 Correlation of Lipid Analysis of Infant and Adult Lungs with Surface Tension Measurements. George W. Brumley*, W. Alan Hodson*, and Mary Ellen Avery, Dept. of Ped., Johns Hopkins Univ. Sch. of Med., Balto., Md. (p. 22)

ENDOCRINOLOGY

Seaside, Pennsylvania Room

Moderator: Melvin Grumbach

- 47.--2:00 Idiopathic Hypoparathyroidism: A Probable Auto-immune Disease. Robert M. Blizzard, Darwin Chee*, Walter G. Davis*, Dept. of Ped. Johns Hopkins, Univ. Sch. of Med., Baltimore. (p. 22)
- 48.--2:20 Growth Hormone Secretion in Cachexia. F. A. Conte*, S. L. Kaplan, C. A. L. Abrams* and M. M. Grumbach. Columbia Univ., College of P&S, Babies Hosp., New York. (p. 23)
- 49.--2:40 The Use of Diazoxide in the Treatment of Hypoglycemia. Allan L. Drash*, Frederick Wolff*, Harold M. Langs*, Harold M. Nitowski, and Robert M. Blizzard. The Johns Hopkins Univ. Sch. of Med. Baltimore. (p. 23)
- 50.--3:00 Pituitary Growth Hormone Suppression with Low-Dosage, Long-Acting Glucocorticoid Administration. Bagher M. Sheikholeslam*, Elizabeth A. Lamb*, Harold E. Lebovitz*, and Robert S. Stempfel, Jr., Duke Univ. Med. Center, Durham, N. D. (p. 24)

- 51.--3:20 Serum Insulin Levels Following Intravenous Glucagon, Eleanor Colle, Dept. Ped. McGill Univ. and Montreal Child. Hosp. (p. 24)
- 52.--3:40 Erythrocyte Glucose-6-Phosphate Dehydrogenase (G-6-PD) Activity in Children with Hypothyroidism and Hypopituitarism. Allen W. Root*, Frank A. Oski, Alfred M. Bongiovanni, and Walter R. Eberlein. Univ. of Penna. Sch. of Med., Child, Hosp. of Phila. and Hosp. of the Univ. of Penn. (p. 25)
- 53.--4:00 Immunoassay and Bioassay of Urinary Growth Hormone. Platon Jack Collipp*, Maimonides Hosp. of Brooklyn. (Intr. by Howard Joos) (p. 25)
- 54.--4:20 Effect of Hyperthyroidism and Hypothyroidism on Collagen Metabolism. Chester W. Fink, J. Lynn Ferguson*, and J. Donald Smiley*, Univ. Tex. Southwestern Med. Sch. Dallas. (p. 26)
- 55.--4:40 Excretion of 16 α -Hydroxysteroids by Premature Infants. John W. Reynolds, Univ. of Minn. Minne. (p. 26)

GENETICS

Colton Manor, Terrace Room
Moderator: William J. Mellman

- 56.--2:00 Resistance of Insulin to Insulinase: A Genetic Discriminant in Diabetes Mellitus. Claude C. Roy*, Robert B. Elliott*, Dennis J. Shapcott* and Donough O'Brien, Univ. of Col. Med. Ctr. (p. 27)
- 57.--2:20 Electrophoretic Variants of Human 6-Phosphogluconate Dehydrogenase (6-PGD). Ronald G. Davidson*, Dept. Ped., Roswell Park Mem. Inst., and Div. Human Genetics, Dept. Ped., Children's Hosp., State Univ. of New York at Buffalo. (Intr. by Mitchell I. Rubin) (p. 27)
- 58.--2:40 Atypical Segregation of Haptoglobin Types. Howard M. Cann and Betty Van West*, Stanford Univ. Sch. of Med. (p. 28)

- 59.--3:00 Neuroblastoma in Four Children Born of a Mother With Excessive Catecholamine Excretion. Jane Chatten*, and Mary L. Voorhess, Children's Hosp. of Phil., and State Univ. of New York, Upstate Med. Ctr., Syracuse. (p.28)
- 60.--3:20 Predominance of Hemoglobin Gower 1 in Early Human Embryonic Life. Frederick Hecht*, Arno G. Motulsky*, Ronald J. Lemire*, and Thomas E. Shepard, Univ. of Oregon Med. Sch. and Univ. of Wash. Sch. of Med. (p. 29)
- 61.--3:40 Autosomal Structural Heterozygosity. Hope H. Punnett*, Marie L. Destine*, Angelo M. DiGeorge, Lester Weiss*, and Victor C. Vaughan, III. St. Christopher's Hosp. for Children, and Temple Univ. Sch. of Med. (p. 29)
- 62.--4:00 Aneuploidy Due to Small Supernumerary Metacentric Chromosomes. Paul V. Woolley, Jr., and Ruben Meyer*. Child. Hosp. Mich. and Wayne State Univ. Detroit (p. 30)
- 63.--4:20 Unusual Dermatoglyphic Findings Associated with Major Congenital Malformations. Ruth Achs* and Rita G. Harper*. State Univ. of New York, Downstate Med. Ctr. (Intr. by R. Janet Watson) (p. 30)
- 64.--4:40 Children of Incest. Morton S. Adams* and James V. Neel*. Univ. of Michigan Med. Ctr., Ann Arbor. (Intr. by Robert W. Miller) (p. 31)

HEMATOLOGY

Morton Hotel - Moderator: Irving Schulman

- 65.--2:00 Viscous Forces in Neonatal Polycythemia. Richard S. Baum*, Harvard Med. Sch. (Intr. by Clement A. Smith) (p. 31)
- 66.--2:20 Quantitative Aspects of Blood Coagulation in the Shwartzman Phenomenon. James J. Corrigan*, Jane F. Vanderheiden*, Charles F. Abildgaard, and Irving Schulman. Univ. of Ill. Col. of Med., Chicago. (p. 32)

- 67.--2:40 Heparin Effects in Systemic Mast Cell Disease. Campbell W. McMillian,* Harold J. Fallon,* and Robert Zeppa*, N. C. Univ. Sch. of Med. (Intr. by Floyd W. Denny, Jr.) (p. 32)
- 68.--3:00 Chronic Lymphadenopathy Simulating Malignant Lymphoma. Virginia Canale* and Carl H. Smith. Cornell Univ. Med. Ctr., New York. (p. 33)
- 69.--3:20 Thrombocytosis During Treatment of Cystinuria with Penicillamine. Nancy P. Fawcett,* William L. Nyhan and William W. Anderson*, Univ. of Miami Sch. of Med., Miami, Florida. (p. 33)
- 70.--3:40 A New Method for Maintenance of Remission in Children with Acute Leukemia. Isaac Djerassi, Esshagh Abir*, Carmen Treat* and George Royer*, Children's Hosp. of Phil. (p. 34)
- 71.--4:00 Methemoglobin Reduction in the "In Vivo" Ageing Erythrocyte. Sergio Piomelli* New York Univ. Sch. of Med. (Intr. by Saul Krugman) (p. 34)
- 72.--4:20 Iron Absorption and the Rate of Erythropoiesis. James T. Lowman* and Mark E. Nesbit*, Univ. of Minn. Med. Sch. (Intr. by William Krivit) (p. 35)
- 73.--4:40 Factor VIII (Antihemophilic Factor) Activity in Sickle Cell Anemia. Charles F. Abildgaard, Joseph W. Simone* and Irving Schulman, Univ. of Ill. Col. of Med. (p. 35)

MICROBIOLOGY, IMMUNOLOGY

Chalfonte-Haddon Hall, Carolina Room

Moderator: Donald N. Medearis, Jr.

- 74.--2:00 Response to Bacterial Infection in the Mature and Immature Animal. Dexter S. Y. Seto* and Robert H. Drachman*, Johns Hopkins Univ. Sch. of Med. (Intr. by Saul Brusilow) (p. 36)

- 75.--3:20 Suppression of Interferon Synthesis and Multiplication of New Castle Disease Virus in Mice Infected with Cytomegalovirus. June E. Osborn* and Donald N. Medearis, Jr. Univ. of Pittsburgh Sch. of Med. (p. 36)
- 76.--2:40 A Mechanism of Bacterial Interference in Allantoic Fluid of Chick Embryos. John C. Ribble* Cornell Univ. Med. Col. (Intr. by Marion E. Erlandson) (p. 37)
- 77.--3:00 A Rapid Diagnostic Test for Measles Infection by Examination of Urinary Smears with Immunofluorescent Technic. Chien-Liu and Rizalina Llanes-Rodas*, Univ. of Kansas Sch. of Med. Kansas City, Kan. (p. 37)
- 78.--3:20 Production of Generalized Herpes Simplex Infection in the Owl Monkey. David S. Katzin*, Louis A. Wilson*, Robert S. Sexton* and James D. Connor*, Univ. of Miami Sch. of Med., Depts. of Ped. and Ophthal. (Intr. by William L. Nyhan) (p. 38)
- 79.--3:40 Placental Transfer of Varicella-Zoster Antibody. Philip A. Brunell*, N. Y. U. Sch. of Med. (Intr. by Saul Krugman) (p. 38)
- 80.--4:00 Pigeon Breeders' Disease in Children. E. Richard Stiehm*, Charles E. Reed*, Robert A. Barbee*, and William H. Tooley. Univ. of Wisc. and Univ. of Calif. Schs. of Med. (p. 39)
- 81.--4:20 Association of Mycoplasmataceae, Bacteria, and Viruses with Acute Pharyngitis in Children. Wallace A. Clyde, Jr., W. Paul Glezen*, Charles I. Sheaffer*, Robert J. Senior, and Floyd W. Denny, Univ. N. C. Sch. of Med. (p. 39)
- 82.--4:40 Swiss-Type Agammaglobulinemia Associated with an Abnormality of the Inflammatory Response. Edward J. O'Connell*, Pablo Enriquez*, James W. Linman*, Gerald J. Gleich*, and Frederic C. McDuffie*. Mayo Clinic and Mayo Fndn., Rochester, Minn. (Intr. by William H. Weidman) (p. 40)

NEPHROLOGY, NEUROLOGY

Seaside, Ocean Lounge

Moderators: William B. Weil, Jr.

Guy M. McKhann

83. --2:00 Immunopathologic Studies of the Cutaneous and Renal Manifestations of Anaphylactoid Purpura. Keith N. Drummond and Alfred F. Michael, Depts. of Ped. McGill Univ. and Univ. of Minn. (p.40)
84. --2:20 Evidence for Uptake and Conversion of $\text{P}_{1\text{C}}$ Globulin in Hypocomplementemic Glomerulonephritis. Clark D. West, Sara Winter*, Judith Forristal*, Janice M. McConville* and Neil C. Davis*, Children's Hosp. Univ. of Cincinnati. (p.41)
85. --2:40 Epidemiology of Acute Glomerulonephritis. Hugh C. Dillon*, Max D. Moody*, and W. R. Maxted*, Univ. of Ala. Sch. of Med., CDC. and C. P. H. Lab, London. (Intr. by Herschel P. Bentley) (p.41)
86. --3:00 Prevalence and Significance of Proteinuria in School Age Children. Birger O. Tinglof*, Marsden G. Wagner*, and Fred G. Smith, Jr., Univ. of Calif. Sch. of Med., Los Angeles. (p.42)
87. --3:20 A Linear Relationship Between Kidney Function and Kidney Structure in Growing and Hypertrophied Kidneys. Azmi S. Jarrah,* Malcolm A. Holliday, and Camillus L. Witzleben.* Children's Hosp. Med. Ctr., Oakland, Cal. (p.42)
88. --3:40 The Influence of Malnutrition on the Synthesis of Myelin. H. Peter Chase*, and Guy H. McKhann, Univ of Col. Med. Ctr. Stanford Univ. Sch. of Med. (p.43)
89. --4:00 Antibody and Interferon Responses in Viral Infections of the Neuraxis. Donald M. McLean and R. P. Bryce Larke.* Hosp. for Sick Children, Toronto, Canada. (p.43)

- 90.--4:20 Cytomegalovirus Complement-Fixing Antibody In Microcephalic Infants and Children. James B. Hanshaw. Univ. Rochester Sch. of Med. and Dent. (p.44)
- 91.--4:40 A Behavioral Basis for Lateral Differences in Auditory Responsiveness in the Human Neonate. Gerald Turkewitz*, Tina Moreau*, and Herbert G. Birch*. Dept. of Ped. Albert Einstein Coll. of Med. (Intr. by Henry Barnett) (p.44)
- 92.--5:00 Abnormalities in the Brains of Gunn Rats. A Fine Structure Study. Henry Schutta* and Lois Johnson Depts. of Neurol. and Ped., Schl. of Med. Univ. of Pa. Philadelphia, Pa. (p.45)

PHYSIOLOGY, METABOLISM

Steel Pier - Moderator: Charles U. Lowe

- 93.--2:00 Enhancement of Glucuronide Conjugating Capacity in an Hyperbilirubinemic Infant Due to Apparent Enzyme Induction by Phenobarbital. Summer J. Yaffe, Gerhard Levy*, and Tai Matsuzawa* State Univ. of N.Y. at Buffalo. (p.45)
- 94.--2:20 The Role of Collagen in Osteogenesis Imperfecta. Clive C. Solomons,* Univ. of Colorado Med. Ctr. (Intr. by Donough O'Brien) (p.46)
- 95.--2:40 Hurler's Syndrome: Biosynthesis of Acid Mucopolysaccharides in Tissue Culture. Reuben Matalon* and Albert Dorfman, La Rabida-Univ. of Chicago Inst. Dept. of Ped., and Comm. on Genetics, Univ. of Chicago. (p.46)
- 96.--3:00 Increased Urinary Excretion of VMA in "Tyrosinosis". Ira M. Rosenthal, and Ralph Kathan*, Univ. of Ill. Col. of Med., Chicago. (p.47)
- 97.--3:20 Stable Bromine and Activation Analysis in Protein Tracer Studies. Philip Fireman, Donald Borg*, and David Gitlin. Univ. of Pittsburgh Sch. of Med. and Brookhaven Nat. Lab. (p.47)

- 98.--3:40 Cellular Changes During Malnutrition. Myron Winick* and Adele Noble,* Cornell Univ. Med. Col., New York City. (Intr. by W. W. McCory). (p.48)
- 99.--4:00 Nitrogen (N) Balance and Energy Metabolism in Malnourished Infants. Ingeborg Krieger* and Charles F. Whitten, Wayne State Univ. Sch. of Med. (p.48)
- 100.--4:20 Glucosamine and Isoproterenol in the Treatment of Infants Having Recurrent Hypoglycemia with Leucine Sensitivity. Michael L. McCann* and Thomas M. Terec*, Dept. of Ped., Western Reserve Univ. Cleveland, Ohio. (Intr. by William M. Wallace) (p.49)
- 101.--4:40 Analysis of Glycogen Storage in a Hepatoma: Phosphorylase b Kinase Defect. Robert O. Christiansen*, Lyman A. Page*, and Robert E. Greenberg, Dept. of Ped., Stanford Univ. Sch. of Med. (p.49)