This publication presents the program and abstracts of papers presented at the first meeting of The American Society for Neurochemistry. The host for the meeting was the University of New Mexico School of Medicine and it was held in Albuquerque, New Mexico, March 16, 17 and 18, 1970.

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SCIENTIFIC PROGRAM

MONDAY, MARCH 16, 1970 - MORNING

Symposium: The Role of Cyclic AMP in the Nervous System.
Heritage Room
Chairman: G. Alan Robison

9:00 a.m. Introductory Remarks: Cyclic AMP as a Second Messenger.
G. Alan Robison.

9:20 a.m. Studies on the Mechanism of Action of Cyclic AMP.
Paul Greengard.

9:50 a.m. Adeny1 Cyclase in the Developing Rat Brain.
Michael J. Schmidt.

10:15 a.m. Coffee Break.

10:35 a.m. Properties of Brain Phosphodiesterase.
Wei Y. Cheung.

11:05 a.m. The Role of Cyclic AMP in the Cerebellum.
George R. Siggins.

11:35 a.m. A Role of Cyclic AMP in the Release of Acetylcholine
at the Neuromuscular Junction.
Joshua J. Singer.
Free Communications Session I - Heritage Room
MONDAY, MARCH 16, 1970 - AFTERNOON
Cyclic AMP (continued); Barriers and Transport

Chairmen: Paul Greengard
Antonio Lorenzo

1:30 p.m. Factors Affecting Cyclic AMP Formation in Brain. Use of Slices Pre-labelled by Incubation with Adenine-14C.
H. Shimizu, C. R. Creveling and J. Daly.

1:45 p.m. The Control of Brain Adenyl Cyclase Activity.
J. F. Perkins.

2:00 p.m. Effect of Drugs on Cyclic AMP Formation in Rat Hypothalamus In Vitro.

2:15 p.m. Cyclic 3',5'-Nucleotide Phosphodiesterase in Developing Brain.
Saeed Gaballah.

2:30 p.m. In Vivo Perfusion of the Brain Cortex. The Effect of the 'Sink' Action on Transport Processes.
Emanuel Levin and Charles R. Kleeman.

2:45 p.m. Clearance of C-14 Xanthine from Feline CSF.
Antonio V. Lorenzo and Richard J. Berlin.

3:00 p.m. Coffee break.

3:15 p.m. Dibasic Amino Acid Transport from Feline CSF.
Robert W. P. Cutler.

3:30 p.m. Effects of Ouabain and Metabolic Inhibitors on Divalent Cations in Brain Slices.
William L. Stahl and Phillip D. Swanson.

3:45 p.m. Energy Requirements for Concentrative Uptake of Amino Acids into Mouse Brain Slices.
Miriam Benay-Schwartz and Abel Lajtha.

4:00 p.m. Uptake of Amino Acid Derivatives into Mouse Brain: Effect of Sodium Acetrizoate.
Ellen G. Archer.

4:15 p.m. 131I-Triiodothyronine Transport in Rat Cerebral Cortex Slices.
Donald H. Ford.

4:30 p.m. Characteristics of Lipid Activation of Na+,K+,-Activated Adenosine Triphosphatase (ATPase) from Bovine Cerebral Cortex.
Ryo Tanaka, Tarufumi Sakanoto and Yumiko Sakamoto.
Free Communications Session II - New Mexico Room

MARDAY, MARCH 16, 1970 - AFTERNOON
Chemical Neuropathology

Chairmen: Roscoe Brady
John Menkes

1:30 p.m.  Brain Sphingoglycolipids in Globoid Cell Leucodystrophy.
Yoshikatsu Eto and Kunihiko Suzuki.

1:45 p.m.  Deficiency in a Degradative Enzyme System in Globoid
Leucodystrophy.
Michael J. Melone.

2:00 p.m.  Biochemical Studies of a Case with Congenital Failure of
Myelinization.
Larry Schneck, Masazumi Adachi and Bruno W. Volk.

2:15 p.m.  A Study of Proteins in Old Multiple Sclerosis Plaques.

2:30 p.m.  Cyanide Effects on Myelin Metabolism.
Marion Edmonds Smith.

2:45 p.m.  Sphingomyelinases in Niemann-Pick Disease.
J. A. Lowden and N. A. La Rance.

3:00 p.m.  Coffee break.

3:15 p.m.  Inherited Abnormalities in Pyruvic Acid Metabolism in
Fibroblasts from Patients with Neurologic Diseases.
J. P. Blass, J. D. Schulman, B. W. Uhlenford and
D. Lonsdale.

3:30 p.m.  Brain Fatty Acid Elongation in Dementia.
Frank Yatsu and Sylvia Moss.

3:45 p.m.  Altered Regional Serotonin Metabolism in Experimental
Amino Acidurias.
Arthur Yuwiler and Edward Geller.

4:00 p.m.  Experimental Vitamin B12 Deficiency.
F. M. Dreyfus.

4:15 p.m.  Ethanol Ingestion and Synaptosomal NA-K Activated ATP
Phosphohydrolyase of Mouse Brain.
Albert Y. Sun.

4:30 p.m.  The Course of Biochemical Alterations in the Anoxic-
Ischemic Lesion of Rat Brain.
<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker(s)</th>
<th>Title</th>
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<tbody>
<tr>
<td>1:30 p.m.</td>
<td>Richard N. Lolley</td>
<td>Changes in Glucose Metabolism During Postnatal Development of Mice Retinas.</td>
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<td>1:45 p.m.</td>
<td>J. H. Allison and M. A. Stewart</td>
<td>Carbohydrate Changes in Developing Rat Brain.</td>
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<tr>
<td>2:00 p.m.</td>
<td>Michael Lerner, Liang Chou and Terry Johnson</td>
<td>Alteration in Ribosomal Activity During Early Postnatal Development of Mouse Brain.</td>
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<tr>
<td>2:30 p.m.</td>
<td>Byron S. Wenger and Harvey P. Friedman</td>
<td>Accumulation of &quot;S-100&quot; Protein in Chick Embryo Retinae.</td>
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<tr>
<td>2:45 p.m.</td>
<td>S. Lawrence Twomey and Charles R. Wyttenbach</td>
<td>Changes in Microtubular Protein Concentration in Various Regions of the Mouse Brain During Postnatal Development.</td>
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<tr>
<td>3:00 p.m.</td>
<td></td>
<td>Coffee break.</td>
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<tr>
<td>3:15 p.m.</td>
<td>Gary R. Dutton and Samuel H. Berondes</td>
<td>Glycoprotein Metabolism in Developing Mouse Brain.</td>
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<tr>
<td>3:30 p.m.</td>
<td>Jean Hung-Chen Shih and Samuel Eiduson</td>
<td>Multiple Forms of Homocine Oxidase in Developing Brain.</td>
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<tr>
<td>3:45 p.m.</td>
<td>Elie A. Shneour and Idell M. Hansen</td>
<td>The Probable Function of Mouse Brain UDP-Galactose-4-Epimerase During Development.</td>
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<tr>
<td>4:00 p.m.</td>
<td>X. S. Brown and J. Harris</td>
<td>Brain Enzyme Activity in Developing Neonatal Rat Reared in High O2 Levels.</td>
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<td>4:15 p.m.</td>
<td>V. N. Luine and F. C. Kaufman</td>
<td>Trisphosphopyridine Nucleotide (TPH) Dependent Enzymes in the Developing Spinal Cord of the Rabbit.</td>
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<td>4:30 p.m.</td>
<td>T. Valcana, D. B. Hudson, A. Vernadakis and P. S. Timiras</td>
<td>Effects of X-Radiation on Free Amino Acid Content in the Developing Rat Brain.</td>
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Free Communications Session

TUESDAY, MARCH 17, 1970 - MORNING

Symposium: Fractionation of Neurons and Glia
Heritage Room
Chairman: William T. Norton

9:00 a.m.
The Preparation and Some Properties of Neuronal Soma, Neuroglia and Myelin-free Axons.
William T. Norton, Shirley E. Poduslo and Julienne M. Turnbull.

9:30 a.m.
Electrolyte Metabolism in Dissociated Brain Cells.
R. A. Snyder, R. S. Bourke and R. G. Brady.

10:05 a.m.
In Vivo and Enzymatic Studies with Bulk-isolated Nerve Cell Bodies and Neuroglial Cells.

10:40 a.m.
Coffee Break.

11:00 a.m.
Amino Acid Incorporation into Neuronal and Glial Cell Enriched Fractions.
Anders Henberger.

11:35 a.m.
Neuronal and Glial Perikarya Preparations: An Appraisal of Present Methods.
Patricia V. Johnston and Betty I. Roots.

AFTERNOON

1:30 p.m.
Neuronal and Glial Separation Methods: A Critical Review.
Steven P. R. Rose.
Free Communications Session IV - Heritage Room

TUESDAY, MARCH 17, 1970 - AFTERNOON

Fractionation of Neurons and Glia (continued); Axonal Transport; Synaptosomes.

Chairmen: Bruce McIlwain
           Carl Cotman

1:30 p.m.
Neuronal and Glial Separation Methods: A Critical Review.
Steven P. R. Rose.

2:00 p.m.
Subcellular Fractionation of Glial Cells.
C. W. Cotman, H. Herschman, D. Flansburgh.

2:15 p.m.
Isolation of Two Classes of Neuroglial Nuclei from Central White Matter.
D. E. Slagel.

2:30 p.m.
RNA Metabolism in Cellular Fractions of Rat Brain Separated by Zonal Centrifugation.
A. L. Flangas and R. E. Bowman.

2:45 p.m.
Rapidly Transported Protein (RTP) in the Goldfish Optic Nerve.
J. S. Elam and B. W. Agranoff.

3:00 p.m.
Coffee break.

3:15 p.m.
Metabolic Control of Fast Transport of Labeled Materials in Mammalian Nerve Fibers.

3:30 p.m.
Disruption of Axonal Transport by Vinblastine.
H. L. Fernandez and F. E. Samson, Jr.

3:45 p.m.
Isolation of Synaptic Complexes in a Cesium Chloride Density Gradient Using a Zonal Rotor.
S. Kornguth, A. Flangas and G. Scott.

4:00 p.m.
Synaptosomal Potassium, Retention and Exchange at 2^o C.
Howard Weinstain and Kinya Kuriyama.

4:15 p.m.
Cation Control of Mitochondrial Respiration in Synaptosomes.
M. Anthony Verity.

4:30 p.m.
Intracellular Localization of Sialidase in Cow Brains.
C. L. Schengrund and A. Rosenberg.
Free Communications Session V - New Mexico Room

TUESDAY, MARCH 17, 1970 - AFTERNOON

**Nucleic Acids and Proteins**

**Chairmen:** Edwin Eylar
Claire Zomzely-Neurath

1:30 p.m. Isolation of RNA with Properties of Messenger RNA from Cerebral Polyribosomes.
C. Zomzely-Neurath, S. Roberts and S. Peache.

1:45 p.m. Hybridization of Rat Brain RNA: Failure to Confirm Reports of New Species of RNA Induced with Learning.
Karn von Hungen.

2:00 p.m. Effect of Light Deprivation and Stimulation on the Total RNA Content of Isolated Retinal Ganglion Cells.
Iris W. M. Barbato and Libero M. Barbato.

2:15 p.m. The Determination of DNA in Preserved Brains and Brain Sections.
S. Zamenhof, L. Grauel, R. A. Stillinger and E. van Marthens.

2:30 p.m. ADP-Ribosylation of Nuclear Macromolecules in Rat Brain.
P. Caradzas, R. Anderson and S. G. A. Alivisatos.

2:45 p.m. A Selective in Vitro Incorporation of Labeled Amino Acids into Some Basic "Structural" Proteins of Ribosomes from Brain and Liver.
Stanley S. Levinson and Claude F. Baxter.

3:00 p.m. Coffee break.

3:15 p.m. Sequence Specific Binding of Nucleic Acids to a Basic Brain Protein.
H. Kubinski and S. Kornguth.

3:30 p.m. In Vivo Turnover of the Brain Specific Protein, S-100.
Theodore J. Cicero and Blake W. Moore.

3:45 p.m. Partial Characterisation of the ATP-Binding Protein Complex Isolated from Bovine Brain Grey Matter.

4:00 p.m. Actomyosin-Like Protein Isolated from Mammalian Brain.
S. Merl and S. Puskin.

4:15 p.m. Brain Microtubular Protein (Tubulin)

4:30 p.m. A Complement Fixing Antibody Against Microtubule Protein from Vertebrate Brain.
S. Lawrence Twomey, M. F. Ruscha and F. E. Samson, Jr.
Free Communications Session VI - Taos Room

TUESDAY, MARCH 17, 1970 - AFTERNOON

Lipids

Chairmen: Kunihiko Suzuki
             George Rouser

1:30 p.m.  Cerebroside Biosynthesis.
            Norman S. Radin.

2:00 p.m.  Synthesis of Sulfatides in Myelinating Explants of Rat Cerebellum.
            Donald H. Silberberg, Joyce Benjamin, Norbert Herschkowitz and Guy N. McDonnell.

2:15 p.m.  The Cerebral Synthesis of Cytidine Diphosphocholine.
            Marcus V. Gomez, Edward F. Domino and Otto Z. Sellinger.

2:30 p.m.  Fatty Acid Metabolism in Brain Tissue Explants.
            John H. Menkes.

2:45 p.m.  Lipid Biosynthesis in Normal and Neoplastic Neuroglial Cultures.

3:00 p.m.  Coffee break.

3:15 p.m.  Studies on the Mobility of Cholesterol.
            David R. Whikehart and Marjorie B. Lees.

3:30 p.m.  Ganglioside Analysis with the Sulfo-Phospho-Vanillin Reaction.
            A. Saifer and N. I. Feldman.

3:45 p.m.  Determination of Ganglioside Structure by Mass-Spectrometry.
            Glynn Dawson and Charles C. Sweeley.

4:00 p.m.  Factors Affecting the Brain Free Fatty Acid (FFA) Pool.
            Nicolas G. Nason, Jr.

4:15 p.m.  Metabolism of Palmitic Acid in the Subcellular Fractions of Mouse Brain.
            Grace Y. Sun.

4:30 p.m.  Ganglioside Content and Turnover in Brains of Rats After Swim-Escape Training.
            Louis Neal Irwin and Frederick E. Samson, Jr.
## Proteins

### Wednesday, March 18, 1970 - Morning

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Authors</th>
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<tr>
<td>9:00 a.m.</td>
<td>Glycopeptides Derived from Brain Glycoproteins.</td>
<td>Eric G. Brunngraber.</td>
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<tr>
<td>9:15 a.m.</td>
<td>Metabolism of Glycoproteins and Gangliosides in Developing Rat Brain.</td>
<td>R. H. Quarles and R. O. Brady.</td>
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<tr>
<td>9:30 a.m.</td>
<td>The Metabolism of Encephalitogenic Protein from Rat Brain.</td>
<td>J. G. Wood, N. L. King and R. S. Shapiro.</td>
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<tr>
<td>9:45 a.m.</td>
<td>Modification of the Biological Properties of the Al Protein from Myelin.</td>
<td>E. H. Eylar, Juanita Caccam and Jesse Jackson.</td>
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<tr>
<td>10:00 a.m.</td>
<td>Modification of Tryptophan Residue in the Encephalitogenic Protein.</td>
<td>Li-Pen Chao and Elisabeth Roboz Einstein.</td>
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<td>10:30 a.m.</td>
<td>Coffee break.</td>
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<td>10:50 a.m.</td>
<td>Tryptic Activity and Its Inhibition by Brain Tissue According to Brain Region and Time of Day.</td>
<td>George F. Bullets, Jr. and Wilbur B. Quay.</td>
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<tr>
<td>11:05 a.m.</td>
<td>Inhibitors of Cerebral Enz- and Endopeptidases.</td>
<td>B. D'Monte, N. Marks, A. Latjha and P. Mela.</td>
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<tr>
<td>11:20 a.m.</td>
<td>Protein Breakdown in Mouse Brain Slices.</td>
<td>A. Neidle, J. Kandera and M. Chedekel.</td>
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<tr>
<td>11:35 a.m.</td>
<td>Activation of Brain Glutaminase by Phosphate Esters and Polyphosphates.</td>
<td>H. Weil-Malherbe.</td>
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<tr>
<td>11:50 a.m.</td>
<td>Chromogranin as the Substrate for Transglutaminase.</td>
<td>I. J. Wajda, I. Hanbauer, I. Manigault and A. Latjha.</td>
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</table>
Free Communications Session VIII - New Mexico Room
WEDNESDAY, MARCH 18, 1970 - MORNING

Transmitters

Chairman: Richard McCaman
Morris Aprison

9:00 a.m.  Studies on the Release of Glycine in the Isolated Spinal Cord of the Toad.
           N. H. Aprison.

9:15 a.m.  Effect of Tetanus Toxin on the Content of Glycine, GABA, Glutamate, Glutamine and Aspartate in the Rat Spinal Cord.
           R. P. Shank and A. A. Fedinec.

9:30 a.m.  A Possible Explanation for Activity of Excitatory and Inhibitory Amino Acids.
           N. M. van Gelder.

9:45 a.m.  Differential Localization of Two Forms of L-Glutamic Acid Decarboxylase (GAD) in Mouse Brain.
           B. Haber, K. Kurilyans and E. Roberts.

10:00 a.m. Subcellular Distribution of Pyridoxal Phosphate in Mouse Brain.
           R. Tapia and N. Pérez de la Mora.

10:15 a.m. Congenital Pyridoxine Deficiency and Evoked Cortical Potentials.
           V. Navilov, M. C. Stephens and K. Daskinamurti.

10:30 a.m. Coffee Break.

10:50 a.m. A Possible Role for GABA in Hydrazide Induced Seizures.
           J. D. Wool and Dawne E. Abrahams.

11:05 a.m. Intraretinal Distribution of GABA.
           L. T. Graham, Jr.

11:20 a.m. Choline Acetylase, Choline Esterase and Catechol-O-Methyl Transferase in Individual Neurons of Aplysia.
           Richard E. McCaman and Susan A. Deshurst.

11:35 a.m. Acetylcholine Receptors and Enzymes in Cortical Membranes.
           William McBride, Walter J. Moore, Fredric F. White and Joel B. Yudkovitz.

11:50 a.m. Non Catalytic Binding Sites on Acetylcholinesterase.
           G. Kato, J. Yung and M. Innat.

12:05 p.m. Simultaneous Determination of Acetylcholine (ACh) and Choline (Ch) by an Enzymatic Method.

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FREE COMMUNICATIONS SESSION IX - TAOS ROOM

Lipids; Hormones

Chairmen: Marjorie Lees
Otto Sellinger

9:00 a.m. Structure of Sulfatides Biosynthesized in Vitro.
Pierre Stoffyn, Anne Stoffyn and George Hauser.

9:15 a.m. Distribution and Disappearance of Polyphosphoinositides in Anatomical Regions of Rat Brain.
Joseph Eichberg and George Hauser.

9:30 a.m. Inositide Labelling in Vagus Nerve and Superior Cervical Ganglion of Rat.
G. L. White and M. G. Larrabee.

9:45 a.m. Biosynthesis of Cholesterol by Subcellular Fractions of Adult Rat Brain.
Robert B. Ramsey, John P. Jones and Harold J. Nicholas.

10:00 a.m. Influence of the Thyroid Hormone on the Lipids in the Developing Rat Brain.
Kana R. Dalal, Elizabeth Roboz-Einstein, Paula S. Timiras and Thanou Valcana.

10:15 a.m. Essential Fatty Acid Incorporation into Phospholipids of Adult Feline Central Nervous System in Vitro.
Joseph Bermuth, Leo M. Stephanides and Harold Morgello.

10:30 a.m. Coffee Break.

10:50 a.m. The Incorporation of L-[1-14C]-Aceeta and D-3H-Acetate into the Lipids of Brain Subcellular Fractions During Insulin Produced Convulsions.
Libero M. Barbato and Iris W. M. Barbato.

11:05 a.m. Effect of Intracerebrally Injected 4-Methoxy-methyl-pyridoxine (4-MMP) on the Concentrations of Gangliosides and Cholesterol in Mouse Brain.
George D. Cherayil.

11:20 a.m. Sensitivity of Hypothalamic Tissue to Cortisol and Estradiol in Culture.
Antonia Vernadakis.

11:35 a.m. Cytophotometric Evidence for Hormone Changes in Rat Pituitaries Exposed to Releasing Factors in Vitro.
Sally E. Pend, James C. Mittler, Andrew V. Schally and Richard M. Holz. A.

11:50 a.m. Corticosteroid Binding Factors in Brain: Cytoplasmic and Nuclear Macromolecules.
Bruce S. McEwen.

12:05 a.m. The Alkylation of Brain Corticosteroid Acetylesterase.
Free Communications Session X - New Mexico Room

WEDNESDAY, MARCH 18, 1970 - AFTERNOON

Transmitters
Chairmen: John Wood
Claude Baxter

1:30 p.m. The Mechanism of the Selective Depletion of Tissue Noradrenaline by N-o-t-Bipyridyl.

1:45 p.m. An Indole(ethyl)amine N-Methyltransferase in Human Brain.
Arnold J. Mandell and Merrily Morgan.

2:00 p.m. Psychic and Behavioral Effects of Dopa.
William G. Clark.

2:15 p.m. Effects of Chronic Treatment with Parachlorophenylalanine (PCPA) on Brain Amines Levels, Sleep and Behavior in the Cat.
Jack Barchas and William Dement.

2:30 p.m. Precursors of the Acetyl Moiety of Acetylcholine in the Rat Brain In Vivo.
S. Tucek and S.-C. Cheng.

2:45 p.m. Effect of Gamma-Hydroxybutyrate on the Synthesis Rate of Brain Monoamines.
P. P. Spano, N. H. Neff and E. Costa.

3:00 p.m. Coffee break.

3:15 p.m. Novel Aspects of Neurotransmitter Metabolism: Aldehyde Binding and Alkaloid Formation.
Michael J. Walsh, Y. Yamanaka and Virginia E. Davis.

3:30 p.m. The Release of Thiamine from Excitable Membranes.
J. R. Cooper and Y. Itokawa.

3:45 p.m. Brain Aminocyl-tRNA Synthetase and tRNA Binding in the Presence of Narcotic Drugs.
R. X. Datta and W. Antopol.

4:00 p.m. Isolation of a Behavior-inducing Peptide from Brain.

4:15 p.m. A Biochemical Investigation of Chemoreception in Marine Organisms.
J. S. Kittredge and Michelle Terry.

4:30 p.m. Evidence for Charge-transfer Energy Transduction in Chemoreception by Insects.
Free Communications Session XI - Heritage Room

WEDNESDAY, MARCH 18, 1970 - AFTERNOON

Proteins; Metabolism

Chairmen: Lawrence Eng

Soll Berl

1:30 p.m. 
Comparison of Mitochondrial Monoamine Oxidases from Bovine Brain and Liver Using Antibody to Purified Liver Monoamine Oxidase.
H. Hidaka, B. Hartman and S. Udenfriend.

1:45 p.m. 
Acidic Lipoproteins and Proteins in Cerebral and Hepatic Nuclei; Isolation, Characterization, Biosynthesis, In Vivo Binding of Actinomycin D and Basic Dyes.
Harold Koenig and C. Y. Lu.

2:00 p.m. 
Incorporation of 3H-Leucine into Brain Nuclear Proteins.
A. R. Dravid, J. A. Burdman and K. Haglid.

2:15 p.m. 
Chick Brain Metabolism After Removal of a Single Eye.
Stephen C. Bondy and Frank L. Margolis.

2:30 p.m. 
Concentration and Incorporation of Amino Acids into Proteins of Normal and Sympathetically Decentralized Submaxillary Glands.
A. D. Kidman, E. Weiss and E. Costa.

2:45 p.m. 
Sulphydryl (SH) Groups and CNS Stimulation.
George L. Elman and George L. Can.

3:00 p.m. 
Coffee break.

3:15 p.m. 
A Loosely Bound Mitochondrial Protease Maximally Active at pH 5.
David W. Pumplin and William O. McClure.

3:30 p.m. 
Inhibition of Glutamate Supported Mitochondrial Respiration.

3:45 p.m. 
Metabolic Characteristics of Rabbit Brain Mitochondria.
R. W. Von Korff and Annemarie S. Welch.

4:00 p.m. 
Subcellular Distribution of Potassium and Sodium in Rabbit Cerebral Cortex.
Ruth C. Henig.

4:15 p.m. 
Inhibition of Citric Acid Cycle Metabolism in Brain In Vitro.

4:30 p.m. 
Changes in Visual Acuity, Neurochemistry and Cellular Ultrastructure after Proton Irradiation of the Brain in the Squirrel Monkey.
L. Hsu and H. Bose.