PROGRAMS OF THE CAJAL CLUB, 1985-1995

The programs of the Cajal Club for the period of 1985 through 1995 are detailed on the following pages of this section. The style and arrangement of the program and the style of its printing varied quite a bit over the years. An effort has been made here to standardize the presentation of information so as to make it easier to follow from one year to another. In some cases missing information (such as incomplete addresses), or errors in printing (such as the 1992 program) have been added/corrected. The 1994 program was printed in a very abbreviated format as reflected here.

Since its inception the Cajal Club has met in conjunction with the American Association of Anatomists (AAA). Over the years this has been a truly symbiotic relationship. From 1985 through 1989 the meetings of the AAA were hosted by University Medical Schools in various locations. The overall meetings of the AAA in 1990 through 1993 met as the Forum in Cellular & Organ Biology (1990, 1991), the Forum in Developmental Biology (1992) and as the Conference on Biological Structure (1993). The 1993 meeting, the 106th annual meeting of the AAA, was held jointly with The Japanese Association of Anatomists. Since 1994 the AAA has met in conjunction with the constituent members of FASEB as Experimental Biology (EB) ’94 and EB95. Listed below are the dates and places of the Cajal Club/AAA meetings from 1985 through 1995.

•May 5-9, 1985, Toronto, Canada, The University of Toronto
•April 6-10, 1986, Reno, Nevada, University of Nevada School of Medicine
•May 10-14, 1987, Washington, DC, George Washington University
•April 24-28, 1988, Cincinnati, Ohio, University of Cincinnati School of Medicine
•April 8-12, 1989, New Orleans, Louisiana, Tulane University School of Medicine
•April 22-26, 1990, Philadelphia, Pennsylvania, Forum in Cellular and Organ Biology
•March 11-14, 1992, New York, New York, Forum in Developmental Biology
•March 27-31, 1993, San Diego, California, Conference on Biological Structure
•April 24-28, 1994, Anaheim, California, Experimental Biology ’94
•April 9-13, 1995, Atlanta, Georgia, Experimental Biology ’95

CAJAL CLUB PROGRAM
The Sheraton Centre Hotel, Toronto, Canada
Ballroom West
May 5, 1985

8:30-12:00 Noon Symposium entitled New Concepts in cerebellar neurobiology. Organized and Moderated by Dr. James S. King, Department of Anatomy, Ohio State University.

8:30- 8:35 A.M. Introduction, Dr. James S. King. New concepts in cerebellar neurobiology.
8:35-9:05 A.M.  Drs. Victoria Chan-Palay and Sanford L. Palay, Department of Anatomy and Neurobiology, Harvard University. *Chemical heterogeneity in cortical structure.*

9:05-9:35 A.M.  Drs. Georgia A. Bishop, Teri Blake and Daniel O'Donoghue, Department of Anatomy and Neuroscience Research Laboratory, The Ohio State University. *The distribution pattern of Purkinje cell axon collaterals: variations on a theme.*

9:35-10:05 A.M.  Drs. James S. King, Raymond H. Ho and Georgia A. Bishop, Department of Anatomy and Neuroscience Research Laboratory, The Ohio State University. *Enkephalin-like immunoreactivity in the cerebellum: distribution and development.*

10:05-10:35 A.M.  Dr. Carol A. Mason, Department of Pharmacology, New York University. *Development of mossy fibers and climbing fibers: embryonic and postnatal features.*

10:35-11:05 A.M.  Dr. Wally I. Welker, Department of Neurophysiology, University of Wisconsin. *Spatial organization of somatosensory projections to cerebellar cortex.*

11:05-11:35 A.M.  Dr. Jan Voogd, Anatomy and Embryology Laboratory, University of Leiden. *Parasagittal modular organization of the cerebellum: connections and development.*

11:35-12:00 Noon  GENERAL DISCUSSION

12:00-1:15 P.M.  LUNCH

1:15-2:30 P.M.  The Cajal-Golgi Nobel Presentations of 1906. Dr. James Culberson (as S. Ramón y Cajal) and Dr. Dennis Overman (as C. Golgi) will present, in period dress, abbreviated versions of the 1906 Nobel presentations. From the Department of Anatomy, West Virginia University, Morgantown, West Virginia. Introduced by Dr. D. E. Haines (West Virginia).

2:30-4:15 P.M.  Presentations from the Platform. Co-Moderators: Dr. L. M. Eisenman, Thomas Jefferson, and Dr. G. F. Martin, Ohio State.

2:30-2:45 P.M.  Dr. George R. Leichnetz, Department of Anatomy, Medical College of Virginia, Virginia Commonwealth University, Richmond, Virginia. *Connections of two cortical regions (frontal eye field and posterior parietal cortex) involved in eye movement and visual attention.*

2:45-3:00 P.M.  Drs. Richard Edwin Coggeshall and Kyungsoon Chung, Departments of Anatomy and of Physiology and Biophysics and the Marine Biomedical Institute, University of Texas Medical Branch, Galveston, Texas. *Unmyelinated sensory fibers in cat dorsal funiculi.*
3:00- 3:15 P.M. Dr. John Howard Haring, Department of Anatomy, St. Louis University, St. Louis, Missouri. *Observations on the induction of serotonergic axon proliferation.*


3:30- 3:45 P.M. Dr. Shirley A. Bayer, Department of Biology, Indiana-Purdue University, Indianapolis, Indiana. *Neurogenesis of the magnocellular basal telencephalic nuclei in the rat.*

3:45- 4:00 P.M. Drs. Rebecca A. Code and Jeffery A. Winer, Department of Physiology-Anatomy, University of California, Berkeley, California. *Two systems of commissural projections in layer V of cat primary auditory cortex (AI).*

4:00- 4:15 P.M. Drs. Rita Liu and Lisa Chang, Department of Anatomy, Uniformed Services University of the Health Sciences, Bethesda, Maryland. *Some dynorphin-immunoreactive neurons of pgl project to nuclei raphe magnus and reticularis magnocellularis.*

4:30 P.M. BUSINESS MEETING

5:30 P.M. SEVENTEENTH ANNUAL PINCKNEY J. HARMAN MEMORIAL LECTURE Introduced by Dr. J. Courville, Montreal. DR. CONSTANTINO SOTELO I.N.S.E.R.M., Histologies Normale et Pathologique du Systeme Nerveux Rue Desbassayns De Richemont, Suresnes, France *Development of Purkinje cell Dendritic Fields and Synaptic Connections. Experimental Analysis Mainly by Cerebellar Transplantation.*

6:30 P.M. SOCIALIZER

**CAJAL CLUB PROGRAM**

Reno, Nevada
Sunday, April 6, 1986
Capitol Rooms 1 & 2

8:30- 8:35 A.M. Welcome - Dr. Leonard M. Eisenman, Department of Anatomy, Jefferson Medical College.

8:35-12:00 Noon Symposium entitled *Developmental neuronal plasticity,* Organized and Moderated by Dr. Jon H. Kaas, Department of Psychology, Vanderbilt University.
8:35- 8:40 A.M. Introduction, Dr. John H. Kaas, *Developmental neuronal plasticity.*

8:40- 9:20 A.M. Dr. Vivien A. Casagrande, Department of Cell Biology, Vanderbilt University. *Normal and abnormal development of the lateral geniculate nucleus.*

9:20-10:00 A.M. Dr. Mriganka Sur, Department of Anatomy, Yale University. *Plasticity of individual retinal X and Y axon terminations in the cat lateral geniculate nucleus.*

10:00-10:40 A.M. Dr. Edwin W. Rubel, Department of Otolaryngology, University of Virginia Medical Center. *Afferent influences on development of avian brain stem auditory nuclei.*

10:40-11:20 A.M. Dr. Herbert P. Killackey, Departments of Psychobiology and Anatomy, University of California, Irvine. *Is the developing rat's somatosensory system plastic?*

11:20-12:00 Noon Dr. John T. Wall, Department of Psychology, Vanderbilt University. *A peripheral nerve viewpoint of plasticity in cortical maps of the skin.*

12:00-1:20 P.M. LUNCH

1:20- 4:30 P.M. Symposium entitled *Developmental Neuronal Specificity.* Organized and Moderated by Dr. Raymond D. Lund, Department of Anatomy and Cell Biology, University of Pittsburgh.


1:25- 2:05 P.M. Dr. David A. Weisblat, Department of Zoology, University of California Berkeley. *Implications for subsequent development of clonal origin of neurons.*

2:05- 2:45 P.M. Dr. Carolyn L. Smith, Departments of Neurobiology and Physiology, Northwestern University. *Specification of sensory connections in spinal cord by the periphery.*

2:45- 3:25 P.M. Dr. Cynthia Lance-Jones, Department of Anatomy and Cell Biology, University of Pittsburgh. *Development of motoneuron projection patterns in the chick hindlimb.*

3:25- 4:05 P.M. Dr. Raymond D. Lund, Department of Anatomy and Cell Biology, University of Pittsburgh. *Development of connections formed by mammalian retina transplanted to ectopic locations.*

4:05- 4:30 P.M. General discussion of topics from both symposia.

4:30 P.M. BUSINESS MEETING
CAJAL CLUB PROGRAM
Washington, D.C.
Sunday, May 10, 1987
The Washington Hilton Towers
Organizer: E. Mugnaini, University of Connecticut
Storrs, Connecticut

SYMPOSIUM

ASPECTS OF CEREBRAL CORTEX ORGANIZATION IN HEALTH AND DISEASE
A Homage to W. J. S. Krié, Neuroanatomist and Neurologist
Chairman: E. Mugnaini

8:30-8:40 A.M. Drs. Enrico Mugnaini and David G. Whitlock. Introduction.

8:40-9:10 A.M. Dr. Miguel Marin-Padilla, Dartmouth Medical School, Hanover, New Hampshire. *Early embryonic development of the human cerebral cortex.*

9:10-9:40 A.M. Dr. Mary E. Hatten, New York University Medical Center, New York. *Molecular mechanisms of cell migration.*

9:40-10:10 A.M. Dr. Albert M. Galaburda, Beth Israel Hospital, Harvard Medical School, Boston, Massachusetts. *Dyslexia--Lessons from developmental neuroanatomy.*

10:10-10:30 A.M. Coffee Break

10:30-11:00 A.M. Dr. George F. Alheid, University of Virginia School of Medicine, Baltimore, Maryland. *Transmitter circuits affected in Alzheimer's disease.*

11:30-12:00 A.M. Dr. Micea Steriade, University of Laval School of Medicine, Quebec. *Structural and electrophysiological bases of thalamocortical activation processes.*

12:00-12:30 P.M. Dr. Gary G. Blasdel, University of Calgary Health Science Center, Alberta: *Visualization of activity patterns in monkey striate cortex.*
12:30- 2:00 P.M. LUNCH BREAK

Platform Presentations
Chairman: Dr. M. Marin-Padilla, Dartmouth Medical School

2:00- 2:15 P.M. Drs. Eva Fikova and Karen Cullen-Dockstader, University of Colorado, Boulder, Colorado: Age-related changes in distribution of calcium-containing synaptic vesicles in axon terminals of the perforant path.

2:15- 2:30 P.M. Drs. George R. Leichner and Alicia Gonzalo-Ruiz, Medical College of Virginia, Virginia Commonwealth University, Richmond, Virginia: The neuroanatomical basis for the convergence of cortical and cerebellar influence on the control of eye movement.

2:30- 2:45 P.M. Drs. Craig K. Henkel and Amiram Schneidermann, Bowman Gray School of Medicine, Winston-Salem, North Carolina, and University of Connecticut Health Center, Farmington, Connecticut: Interconnections of the inferior colliculus with area of the lateral tegmentum in the cat.

2:45- 3:00 P.M. Drs. Daniel L. McNeil and Clair E. Hulsebosch, University of Texas Medical Branch, Galveston, Texas: Sprouting by primary afferent fibers to laminae I and II utilizing the molecular marker FRAP.


3:15- 3:30 P.M. Dr. Jose G. Frontera, Universidad Central del Caribe, Cayey, Puerto Rico: Cajal Revisited.

3:30- 4:00 P.M. COFFEE BREAK

4:00- 4:15 P.M. Krieg Cortical Kudos: Cortical Scholars
Kendall Huison
Leah A. Krubitzer
Ruth Westenbroek
Clifton W. Ragsdale
Dennis Brittain

4:15- 5:00 P.M. BUSINESS MEETING

5:00- 6:00 P.M. NINETEENTH ANNUAL PINCKNEY J. HARMAN MEMORIAL LECTURE
Introduced by Dr. Lawrence Kruger, Los Angeles, California
DR. THOMAS A. WOOLSEY
George H. Bishop & Ethel R. Ronzoni Scholar in Neuroscience and Professor of Neurology and Neurological Surgery, Washington University School of Medicine, St. Louis, Missouri.
Neocortical Architecture and Function.
CAJAL CLUB PROGRAM
Sunday, April 24, 1988
The Cincinnati Convention Center
Cincinnati, Ohio
Organizer: Dr. Barbara S. Bregman, Department of Anatomy,
University of Maryland
Baltimore

SYMPOSIUM
"MECHANISMS IN DEVELOPMENT, PLASTICITY AND
REGENERATION: ARE THE RULES THE SAME?"

8:30- 8:55 A.M. Dr. Lynn Landmesser, Department of Physiology and Neurobiology,
University of Connecticut. Regulation and specificity of axonal elongation
in the developing chick.

8:55- 9:20 A.M. Dr. Ann Bekoff, Department of Biology, University of Colorado.
Development of motor circuitry in chicks.

9:20- 9:45 A.M. Dr. Michael Goldberger, Department of Anatomy, Medical College of
Pennsylvania. Sparing and recovery of function: the rules are not the
same.

9:45-10:10 A.M. Dr. Dennis Stelzner, Department of Anatomy, State University of New
York, Syracuse. Comparison of a developing and mature axonal projection
after spinal injury in the postnatal rat.

10:10-10:35 A.M. Coffee Break

10:35-11:00 A.M. Dr. Ron Oppenheim, Department of Anatomy, Wake Forest University.
Factors influencing the survival of embryonic motor neurons.

11:00-11:25 A.M. Dr. Eugene Johnson, Department of Pharmacology, Washington
University. NGF receptor regulation on non-neural cells.

11:25-11:50 P.M. Dr. Tim Cunningham, Department of Anatomy, Medical College of
Pennsylvania. Transplants and the trophic factor hypothesis in the
developing and mature visual system.

11:50- 1:15 P.M. LUNCH

1:15- 1:40 P.M. Dr. Sal Carbonetto, Neuroscience Unit, McGill University. Control of nerve
fiber growth by laminin, fibronectin and their receptors.

1:40- 2:05 P.M. Dr. Larry Kromer, Department of Anatomy and Cell Biology, Georgetown
University. In search of the cellular basis for axonal regeneration in the
adult mammalian CNS.
2:05- 2:30 P.M. Dr. Jerry Silver, Department of Developmental Genetics, Case Western University. The role of astroglia in axon highway construction and reconstruction.

2:30- 2:55 P.M. Dr. Keith Crutcher, Department of Neurosurgery, University of Cincinnati. Non-regenerative axons growth in the mature mammalian CNS.

2:55- 3:20 P.M. Dr. Oswald Steward, Department of Neurosurgery and Neuroscience, University of Virginia. Making and modifying synapses: in search of molecular mechanisms.

3:20- 3:30 P.M. Summary

3:40 Krieg Cortical Kudos
   Dr. Jon Kaas, Cortical Discoverer.
   Dr. Steward Hendry, Cortical Explorer
   Dr. Dennis D.M. O'Leary, Cortical Explorer
   Shao Ming Lu, Cortical Scholar

4:15 BUSINESS MEETING

5:00- 6:00 P.M. TWENTIETH ANNUAL PINCKNEY J. HARMAN MEMORIAL LECTURE
   Introduced by Dr. Enrico Mignaini, Department of Behavioral Sciences, University of Connecticut
   DR. PASQUALE P. GRAZIADEI, Department of Biological Sciences, Florida State University, Tallahassee, Florida
   The olfactory system: neurochemical markers, development and regeneration.

6:00 P.M. SOCIALIZER

CAJAL CLUB PROGRAM
   Sunday, April 9, 1989
   New Orleans, Louisiana

8:30- 6:00 Presiding Officer: Dr. James S. King, The Ohio State University

MORNING SESSION-SYMPOSIUM
NEW CONCEPTS IN NEURONAL COMMUNICATION

8:30- 8:40 A.M. Introduction: Dr. Alvin M. Burt, Department of Cell Biology, Vanderbilt University.
8:40-9:25 A.M. Dr. Stewart H. Hendry, Department of Anatomy, University of California, Irvine. *The coexistence and release of multiple neurochemical transmitters.*

9:25-10:10 A.M. Dr. Lynn Wecker, Department of Pharmacology, Louisiana State University. *Presynaptic regulation of neurotransmitter synthesis.*

10:10-10:25 A.M. Coffee

10:25-11:10 A.M. Dr. Robert Roskoski, Jr., Department of Biochemistry, Louisiana State University. *The role of second messenger systems in postsynaptic information processing.*

11:10-11:50 A.M. Dr. Story C. Landis, Department of Pharmacology, Case Western Reserve Medical School. *The role of developmental messages in the determination of adult neurochemical characteristics.*

11:50-1:30 P.M. LUNCH

**AFTERNOON SESSION-PLATFORM PRESENTATIONS**

1:30-1:50 P.M. Drs. J. A. Heckroth and L. M. Eisenman, Department of Anatomy, Jefferson Medical College, Philadelphia. *Olivocerebellar topography in lurcher mutant mice.*

1:50-2:10 P.M. Drs. Eva Fikova and Marisela Morales, Department of Psychology, University of Colorado. *Distribution of MAP2 in dendritic spines.*

2:10-2:30 P.M. Dr. George F. Martin, Department of Anatomy and The Neurosciences Program, The Ohio State University. *Observations on the development of selected motor systems.*

2:30-3:00 P.M. Presentation of the 1989 Krieg Cortical Kudos

3:00-3:30 P.M. Platform Presentation by the 1989 Cortical Discoverer Awardees. Dr. Pasko Rakic
Dr. Patricia S. Goldman-Rakic
Dr. Edward C. Jones

3:30-4:00 P.M. Platform Presentation by the 1989 Cortical Explorer Awardee. Dr. Tim P. Pons

4:00-5:00 BUSINESS MEETING

5:00-6:00 P.M. TWENTY-FIRST ANNUAL PINCKNEY J. HARMAN MEMORIAL LECTURE
Introduced by: Dr. James S. King, Ohio State University
DR. EDWARD G. JONES, Department of Anatomy and Neurobiology, University of California, Irvine
*Neuronal circuitry in primate cerebral cortex.*
CAJAL CLUB PROGRAM
Sunday, April 22, 1990
Philadelphia, PA, Ballroom A

8:15-6:00
Presiding Officer: Dr. Stephen T. Kitai, The University of Tennessee.

MORNING SESSION-SYMPOSIUM
Functional integration in the basal ganglia.
Co-Chairs: Drs. Suzanne Haber, University of Rochester and John R. Sladek, Jr., University of Rochester.

8:15-8:30 A.M.
Introduction. Dr. John R. Sladek, Jr., University of Rochester.

8:30-9:00 A.M.
Dr. Stephen Kitai, University of Tennessee. Functional circuits of the basal ganglia.

9:00-9:30 A.M.
Dr. Charles Gerfen, NIMH. Striatal compartmental organization: in situ hybridization analysis of function.

9:30-10:00 A.M.
Dr. Derek Van der Kooy, University of Toronto. The development of functional compartments in the basal ganglia.

10:30-11:00 A.M.
Dr. Timothy Collier, University of Rochester. Factors promotion survival and growth of dopamine neurons: Applications for neural grafting in the basal ganglia.

11:30-11:45 A.M.
Dr. John R. Sladek, Jr., University of Rochester. General Discussion.

11:45-1:00 P.M.
LUNCH

AFTERNOON SESSIONS

1:00-2:30 P.M.
MEMORIAL SYMPOSIUM IN HONOR OF HANS KUYPER
(Co-sponsored by AAA & Dupont)
Transneuronal transport of herpes viruses.
Chair: Dr. Peter L. Strick

1:00-1:30 P.M.
1:30- 2:00 P.M. Dr. Jennifer H. LaVail, University of California.  EM, immunocytochemical and autoradiographic studies of virus transport through the trigeminal system.

2:00- 2:30 P.M. Dr. Peter L. Strick, SUNY Health Science Center at Syracuse. Transneuronal transport of herpes simplex virus in the motor system of primates.

2:40- 4:00 P.M. KRIEG AWARDS CEREMONY AND SPEAKERS

2:40- 3:00 P.M. Krieg Cortical Kudos Awards

3:00- 3:30 P.M. Dr. Deepak, Boston University.  Cortical Discovery Award Winner.

3:30- 4:00 P.M. Dr. Miguel Marin-Padilla, Dartmouth Medical School.  Cortical Discovery Award Winner.

4:00- 5:00 P.M. Cajal Club Business Meeting

5:00- 6:00 P.M. TWENTIETH ANNUAL PINCKNEY J. HARMAN MEMORIAL LECTURE
    Introduced by: Dr. Stephen T. Kitai, University of Tennessee
    DR. ALAN PETERS, Chairman and Waterhouse Professor of Anatomy, Boston University School of Medicine
    Neuronal inter-relations in the cerebral cortex.

6:00- 7:00 P.M. SOCIALIZER

CAJAL CLUB PROGRAM
Sunday, April 21, 1991
Chicago, Illinois, Ballroom D

8:30- 6:00
Presiding Officer: Dr. Robert Y. Moore, SUNY at Stony Brock.

MORNING SESSION-SYMPOSIUM
    Neurobiology of aneuploidy.
    Organizer: Dr. Mary Lou Oster-Granite, Johns Hopkins University.

8:30- 8:45 A.M. Dr. Mary Lou Oster-Granite, Johns Hopkins University. Introduction to neurobiology of autosomal aneuploidy in mammals.

8:45- 9:30 A.M. Drs. Steven Kornguth and Edward T. Bersu, University of Wisconsin at Madison. Murine trisomy 16: Anatomical and magnetic resonance imaging studies.
9:30-10:15 A.M.  Dr. Christine Hohman, Johns Hopkins University.  *Use of transplantation to study the neurobiology of aneuploidy.*

10:15-11:00 A.M.  Dr. Stephen Kinsman, Kennedy Institute.  *Use of transgenesis to study the neurobiology of aneuploidy.*

11:00-11:45 A.M.  Dr. Mary Lou Oster-Granite, Johns Hopkins University.  *Developmental expression of specific genes in the nervous system of aneuploid mice.*

11:45 - 1:15 P.M.  LUNCH

**AFTERNOON SESSIONS**

1:15- 4:00 P.M.  KRIEG CORTICAL KUDOS AWARDS

1:15 - 1:45 P.M.  KRIEG AWARDS CEREMONY
*Cortical Scholar Award Winner*
Mr. Paul B. Johnson, University of North Carolina.
*Cortical Explorer Award Winner*
Dr. Tamas Freund, Hungarian Academy of Sciences.
*Cortical Discoverer Award Winner*
Dr. Alan Peters, Boston University.
Dr. Peter Somogyi, Oxford University.
*Santiago’s Brother Award Winner*
Dr. Wendell J. S. Krieg, Evanston, Illinois.

1:45 - 2:30 P.M.  Dr. Tamas Freund, Hungarian Academy of Sciences.

2:30 - 3:15 P.M.  Dr. Alan Peters, Boston University.

3:15 - 4:00 P.M.  Dr. Peter Somogyi, Oxford University.

4:00 - 5:00 P.M.  Cajal Club Business Meeting

5:00 - 6:00 P.M.  TWENTY-THIRD ANNUAL PINCKNEY J. HARMAN MEMORIAL LECTURE
Introduced by: Dr. Roger Y. Moore, SUNY at Stony Brook.
DR. CLIFFORD B. SAPER, University of Chicago.
*Cytokines: Are they markers for CNS pathways involved in immune response?*

6:00 - 7:00 P.M.  SOCIALIZER
CAJAL CLUB PROGRAM  
Saturday, March 14, 1992  
New York, NY, Treanor Ballroom

MORNING SESSION

Presiding Officer: Dr. Pasko Rakic, Yale University School of Medicine.  
SYMPOSIUM: The Role of Glia in Neural Pattern Formation.  
Co-Chairs: Drs. Vivien A. Casagrande and Pasko Rakic

8:30-8:45 A.M.  Introduced by: Dr. Vivian A. Casagrande, Vanderbilt University.

8:45-9:15 A.M.  Dr. Pasko Rakic, Yale University School of Medicine. Neural and glial cells: Intimate liaisons.

9:15-9:45 A.M.  Dr. Dennis A. Steindler, University of Tennessee, College of Medicine.  Common programs for glia during brain pattern formation and injury.

9:45-10:15 A.M.  Dr. Vivien A. Casagrande, Vanderbilt University. A role for diencephalic glia in the formation of nuclei and layers.

10:15-10:45 A.M.  Dr. L. P. Tolbert, University of Arizona. Glia as intermediaries in the development of insect olfactory glomeruli.

10:45-11:15 P.M.  Dr. Michael T. Shipley, University of Cincinnati. The role of glial cells in affecting nerve development and regeneration.

11:15-11:45  Dr. M. E. Hatten, Columbia University. Neuronal regulation of glial cell differentiation.

11:45-1:15  LUNCH

AFTERNOON SESSION

1:15-4:00 P.M.  KRIEG AWARDS CEREMONY

1:15-1:45 P.M.  Krieg Cortical Awards

Corical Scholar Award Winner  
Dr. E. Christopher Muly III, Duke University Medical Center.

Corical Explorer Award Winner  
Dr. Sharon L. Juliano, Uniform Services University Health Sciences.

Corical Discoverer Award Winner  
Dr. Jennifer F. Lund, University of Pittsburgh.
1:45- 4:00 P.M.  Cortical Award Speakers

4:00- 5:00 P.M.  Cajal Club Business Meeting

5:00- 6:00 P.M.  TWENTY-FOURTH ANNUAL PINCKNEY J. HARMAN MEMORIAL LECTURE
Introduced by: Dr. Pasko Rakic, Yale University School of Medicine.  
DR. HENRY J. RALSTON III, Department of Anatomy, University of California, San Francisco.  
The thalamus as neuronal processor.

6:00- 7:00 P.M.  SOCIALIZER

CAJAL CLUB
Sunday, March 28, 1993
San Diego, California

8:30- 5:00 P.M.

Presiding Officer: Dr. Lennart Heimer, University of Virginia Medical Center.

MORNING SESSION - SYMPOSIUM
The Neuron Doctrine in the Decade of the Brain: Current Cellular and Molecular Issues.
Organizer: Dr. Oswald Steward, University of Virginia Medical Center.  
Introduced by: DR. OSWALD STEWARD, University of Virginia Medical Center.  
The Neuron Doctrine: Historical Perspective.

8:30- 8:40

8:40- 9:20  Dr. Gary Banker, University of Virginia. Dynamic Polarization of the Neuron.

9:20-10:00  Dr. Oswald Steward, University of Virginia Medical Center.  The Cell Body as the Trophic Center of the Neuron: A Revisionist View.

10:00-10:15  Coffee Break

10:15-11:00  Dr. Katherine Kalil, University of Wisconsin.  Cortical Growth Cones in vivo and in video.

11:00-11:40  Dr. Ron Oppenheim, Bowman Gray School of Medicine.  The Neuron as An Independent Entity: Trophic interdependencies.
11:40-12:30  Dr. Edwin Rubel, University of Washington. **Afferent Regulation: A Metabolic Synctytium.**

12:30- 1:30  Luncheon Business Meeting

**AFTERNOON SESSION**

1:30- 2:00  **KRIEG KUDOS AWARDS CEREMONY**

**CORTICAL SCHOLAR WINNER**
Dr. Bradley L. Schlaggar, Washington University School of Medicine, St. Louis, Missouri.

**CORTICAL EXPLORER WINNER**
Dr. Gregg H. Recanzone, NIH, Bethesda, Maryland

**CORTICAL DISCOVERER WINNERS**
Dr. David Fitzpatrick, Duke University Medical Center, Durham, North Carolina.
Dr. Charles D. Gilbert, The Rockefeller University, New York, New York.

2:00- 2:15  Dr. Bradley L. Schlaggar
2:15- 2:40  Gregg Recanzone
2:40- 3:20  David Fitzpatrick
3:20- 4:00  Charles D. Gilbert
4:00- 5:00  **ANNUAL TWENTY-FIFTH PINCKNEY J. HARMAN MEMORIAL LECTURE**
Introduced by: Dr. Lennart Heimer, University of Virginia.
**DR. GARY W. VAN HOESEN, University of Iowa.**

The Modular Organization of the Human Parahippocampal Gyrus and Its Destruction in Alzheimer's Disease.

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**CAJAL CLUB SYMPOSIUM:**

**NEURAL PLASTICITY OF THE PRIMATE BRAIN**
Sunday, April 24, 1994
Anaheim, California

8:30 A.M.
Chaired by Dr. J. H. Kordower

Dr. J. H. Kordower, Rush Presbyterian Medical Center. **Novel methods of trophin delivery to the primate brain: Studies in young and aged monkeys.**

Dr. E. J. Mufson, Rush Presbyterian Medical Center. **Neural plasticity of galaninergic and trophic factor systems in Alzheimer's disease.**

Dr. K. Bankiewicz, Somatix, Inc. **Gene therapy for Parkinson's disease.**
Dr. M. H. Tuszyński, UCSD. *Trophic factors and cholinergic neurons: effects of gene modification on neurons in the adults and aged primate brain.*

Dr. V. Koliatos, Johns Hopkins Medical Center. *The primate brain and models of neurodegenerative disease.*

1:15 P.M. Kriegl cortical kudos ceremony. Dr. J. Kaas, Presiding, Vanderbilt University.

1:40 P.M. Cortical scholar. Dr. S. G. Lomber, Boston University School of Medicine.

2:00 P.M. Cortical explorer. Dr. M. E. Diamond, Vanderbilt University.

2:30 P.M. Cortical discoverer. Dr. M. M. Merzenich, UCSF School of Medicine.

3:10 P.M. Cortical discoverer. Dr. I.T. Diamond, Duke University.

4:00 P.M. THE TWENTY-SIXTH ANNUAL PINCKNEY J. HARMAN MEMORIAL LECTURE. Introduced by: Dr. J. Kaas, Vanderbilt University. DR. F. F. EBNER, Vanderbilt University. *Cortical Plasticity From Several Methodological Points of View.*

**CAJAL CLUB SYMPOSIUM:**

*DEGENERATION AND REGENERATION OF SPINAL CORD (Neurobiology Theme)*

April 10, 1995

Georgia World Congress Center, Atlanta, Georgia

Chaired by Dr. M. S. Beattie

8:30 A.M. Dr. M. S. Beattie, Ohio State Univ. *Overview. Experimental spinal cord injury and recovery.*

8:45 A.M. Dr. R. Oppenheim, Bowman Gray School of Medicine. *Spinal cord development, cell death, and neurotrophic factors.*

9:15 A.M. Dr. M. Murray, Medical College of Pennsylvania. *Fetal transplants prevent degeneration and promote regeneration.*

9:45 A.M. Dr. W. J. Streit, University of Florida. *The role of microglia in CNS regeneration and degeneration.*

10:15 A.M. Dr. M. B. Burge, University of Miami. *The use of Schwann cell transplants to promote axonal regeneration in the central nervous system.*
CAJAL CLUB KRIEG AWARDS CEREMONY AND LECTURES

11:00 A.M.  
Dr. S. M. Williams, Yale University. *Cortical Scholar Award.*  
Dr. L. G. Ungerleider, NIMH, NIH. *Cortical Discoverer Award.*

**SYMPOSIUM: MIGRATION AND DIFFERENTIATION OF NEURAL CREST**  
(Regulation of Growth and Development Theme)

Chaired by Dr. N. LeDouxarin  
Cochaired by Dr. M. D. Gershon

2:00 P.M.  
Dr. N. LeDouxarin, College of France. *Clonal biology.*

2:20 P.M.  
Dr. V. Pachnis, National Institute of Medical Research, London. *C-ret expression.*

2:40 P.M.  

3:00 P.M.  
Dr. L. Greene, Columbia University. *Cell death.*

3:20 P.M.  

3:40 P.M.  
Dr. S. Landis, Case Western Reserve University. *Target interaction in phenotypic expression.*

4:00 P.M.  
THE TWENTY-SEVENTH ANNUAL PINCKNEY J. HARMAN MEMORIAL LECTURE  
Introduced by: Dr. M. S. Beattie  
DR. N. LEDOUARIN, College of France.  
*Development of the peripheral nervous system.*

5:00 P.M.  
CAJAL CLUB BUSINESS MEETING