PROCEEDINGS
of the
AMERICAN ASSOCIATION OF ANATOMISTS
ONE HUNDRED THIRTEENTH MEETING

SAN DIEGO, CA
APRIL 15-18, 2000
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(Term expires after Annual Meeting in year listed in parentheses)*

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SPECIAL EVENTS

**AAVA Focus on Veterinary Medicine**  Saturday, April 15, 9:00 a.m.-12:00 noon

**Imaging Workshop: Confocal Microscopy & Quantitation**  Saturday, April 15, 9:00-11:00 a.m.
Supported by an Educational Grant from Wiley-Liss, Inc.
*Charles G. Plopper, Ph.D.* (Univ. of California-Davis); *Dallas M. Hyde, Ph.D.* (Univ. of California–Davis), *Morphometric Applications in the Lung Using Laser Confocal Microscopy,* and *Robert D. Specian, Ph.D.* (Louisiana State Univ. Medical Center) *A Primer to Confocal Microscopy*

**C.J. Herrick Award Lecture**  Saturday, April 15, 5:00-6:00 p.m.
*Cori Bargman, Ph.D.* (Univ. of California, San Francisco), *Olfactory Signaling and Olfactory Behavior in C. Elegans*

**Thirty-second Annual Pinckney J. Harman Memorial Lecture (Cajal Club)**
Sunday, April 16, 5:00-6:00 p.m.
*Floyd E. Bloom, M.D.* (The Scripps Research Institute; Editor-in-Chief, Science)
*In Genes We Trust—or Do We?*

**Keynote Address**  Sunday, April 16, 6:30-7:30 p.m.
*Marilyn Farquhar, Ph.D.* (Univ. of California-San Diego), *Novel G-protein Mediated Signaling Pathways Involved in Protein Trafficking*

**Anatomy Education Breakfast Roundtables**  Monday, April 17, 8:00-10:00 a.m.
*Gross Anatomy:* Kathy K.H. Svoboda; *Histology:* David Desha;  *Neuroanatomy/Neuroscience:* James L. Olds

**AAA/FASEB Minority Student Workshop**  Monday, April 17, 11:30-1:30 p.m.
Guest Speaker: *Ana Navarro* (UCSD School of Medicine)

**AAA Business Meeting**  Monday, April 17, 5:30 p.m.

**YES Socializer**  Monday, April 17, 9:30 p.m.-12:30 a.m.

**R.R. Bensley Award Lecture**  Tuesday, April 18, 4:00-5:00 p.m.
*Mark McNiven, Ph.D.* (Mayo Clinic and Foundation), *Pinching in New Places: New Functions for the Large GTPase Dynamin in Vesicle Trafficking*

**AAA/Cajal Club Banquet & Presidential Address**  Tuesday, April 18, 7:30-10:00 p.m.
Guest Speaker: *M. Roy Schwarz, M.D.* (China Medical Board) *Let the Dragons Sleep: China & the U.S. in the 21st Century*

CELL & DEVELOPMENTAL BIOLOGY SYMPOSIA

**Saturday, April 15**

**Cell to Cell Interactions in the Vascular Wall**  10:00 a.m.-12:00 noon
Chair: *Gina C. Schatteman, Ph.D.* (Univ. of Iowa)
  - *Peter C. Brooks, Ph.D.* (Univ. of Southern California), *Proteolytic Exposure of a Cryptic Site Within Collagen-IV Regulates Angiogenesis and Tumor Growth in Vivo*
- Mark W. Majesky, Ph.D. (Baylor College of Medicine), *Coronary Smooth Muscle Differentiation from Proepicardial Cells*
- Steven S. Segal, Ph.D. (Pierce Laboratory & Yale Univ. School of Medicine), *Coordination of Blood Flow Control Through Cell-to-cell Conduction: Roles of Endothelium and Smooth Muscle*
- B. Lowell Langille, Ph.D. (Univ. of Toronto), *Endothelial and Smooth Muscle Cell-Cell Interactions During Arterial Remodeling*

**Imaging: Living Systems** 1:00-3:00 p.m.
Supported by an Educational Grant from Wiley-Liss, Inc.
Co-Chairs: Robert D. Specian, Ph.D. (Louisiana State Univ. Medical Center) and Stan Erlandsen, Ph.D. (Univ. of Minnesota School of Medicine)
- Robert D. Specian, Ph.D. (Louisiana State Univ. Medical Center), *Neutrophil Adhesion and Emigration in the Living Lung*
- Conly L. Rieder, Ph.D. (Wadsworth Center), *A Synergy of Technologies: Exploring Centrosome Function Using GFP-Labeling and Laser Microsurgery*
- Robert S. McCuskey, Ph.D. (Univ. of Arizona), *Microscopy of Living Organs*
- Ulrich H. von Andrian, Ph.D. (Harvard Medical School), *Intravital Microscopy Analysis of T Cell Homing to Lymph Nodes*

**Sunday, April 16**

**Development of the Senses: The Power of the Zebrafish Model** 12:30-2:30 p.m.
Chair: Stephen J. Moorman, Ph.D. (Case Western Reserve Univ. School of Medicine)
- Walt Metcalfe, Ph.D. (Molecular Probes, Oregon), *Development of the Zebrafish Lateral Line*
- Stephen S. Easter, Ph.D. (Univ. of Michigan), *Retinal Development and the Onset of Vision in Zebrafish*
- Barbara Chapman, Ph.D. (Univ. of California-Davis), *Development of the Zebrafish Vestibular System*
- John Ngai, Ph.D. (Univ. of California-Berkeley), *Functional Characterization of Vertebrate Odorant Receptors Using the Fish as a Model System*
- Judith S. Eisen, Ph.D. (Univ. of Oregon), *Development of Zebrafish Dorsal Root Ganglia*

**Chronic Remodeling During Asthma** 1:00-3:00 p.m.
Chair: Charles G. Plopper, Ph.D. (Univ. of California-Davis, School of Vet. Medicine)
- Charles G. Plopper, Ph.D. (Univ. of California-Davis), *Alterations in the Epithelial/Mesenchymal Trophic Unit of Conducting Airways in Rhesus Monkeys Exposed to House Dust Mite Allergen*
- John V. Fahy, M.D. (Univ. of California, San Francisco), *Increased Epithelial Mucin in Asthma: Is Goblet Cell Hypertrophy or Hyperplasia the Problem?*
- William Busse, M.D. (Univ. of Wisconsin), *Cellular Mechanisms in Airway Remodeling in Asthma*
- Lisa A. Miller, Ph.D. (Univ. of California, Davis), *Localization of Immune Cells and Their Products by Airway Generation in House Dust Mite-Sensitized Rhesus Monkeys*

**Vascular Wall Assembly: Tissue Morphogenesis to Tissue Engineering** 3:00-5:00 p.m
Chair: Roger Markwald, Ph.D. (Medical Univ. of South Carolina)
- Charles D. Little, Ph.D. (Medical Univ. of South Carolina), *VEGF Signalling During Cardiovascular Morphogenesis*
- Thomas Sato, Ph.D. (Univ. of Texas Southwestern Medical Center), *Blood Vessel Formation: From Developmental Biology to Therapeutics*
- Laura E. Niklason, M.D., Ph.D. (Duke University), *Engineering Vessel Wall Assembly*
- Stuart K. Williams, Ph.D. (Univ. of Arizona), *Tissue Engineered Vascular Grafts: From Bench to Clinical Use*
Monday April 17

Misregulation of the Basement Membrane in Human Disease 10:00 a.m.-12:00 noon
Supported by Educational Grants from Schering-Plough Research Institute and Merck Research Laboratories
Chair: Marion Gordon, Ph.D. (Rutgers College of Pharmacy, Rutgers Univ.)

- Zena Werb, Ph.D. (Univ. of California, San Francisco), Proteases & the Regulation of Angiogenesis in Development & Cancer
- Caroline H. Damsky, Ph.D. (Univ. of California, San Francisco), The Extracellular Matrix and Focal Adhesion Kinase are Critical Regulators of Survival and Cell Cycle Progression in Primary Fibroblasts
- Lynn Y. Sakai, Ph.D. (Shriners Hospital for Crippled Children, Portland, OR), Fibrillin in Basement Membranes
- Bryan P. Toole, Ph.D. (Tufts Medical School), Regulation of Tumor Progression by EMMPRIN, a Tumor Cell Surface Inducer of Matrix Metalloproteinases

Gap Junctions: Anatomical & Pathological Considerations 1:00-3:00 p.m.
Chair: Christian Naus, Ph.D. (Univ. of Western Ontario)
Supported by: Aventis Pharmaceuticals, Layton Bioscience, Inc., Carl Zeiss Canada, Ltd., & Chemicon International

- Klaus Willecke, Ph.D. (Institute for Genetics, Univ. of Bonn, Germany), Biological Significance of Connexin Diversity
- Dale Laird, Ph.D. (Univ. of Western Ontario), Time-lapse Visualization of Gap Junction Assembly and Turnover in Mammalian Cells Using Fluorescent Protein-tagged Connexins
- Alan Lau, Ph.D. (Cancer Research Center of Hawaii, Univ. of Hawaii), The Gap Junction Protein, Connexin 43, Interacts with the Tight and Adherens Junction Protein, ZO-1
- Gerald Kidder, Ph.D. (The Univ. of Western Ontario), Functions of Gap Junctional Communication in Gametogenesis & Embryogenesis
- Maiken Nedergaard, Ph.D. (New York Medical College), Connexins Can Direct Selective Cell-cell Interactions
- Christian Naus, Ph.D. (Univ. of Western Ontario), A Failure to Communicate: Gap Junctions & Cancer

Craniofacial Development 1:00-3:00 p.m.
Chair: Drew M. Noden, Ph.D. (Cornell Univ.)

- Drew M. Noden, Ph.D. (Cornell Univ.), Neural Crest-Mesoderm Interactions During Head Development
- Philippa H. Francis-West, Ph.D. (King’s College, London), Genetic Control of Skull Development
- Jill A. Helms, D.D.S., Ph.D. (Univ. of California-San Francisco), A Head Trip: The Role of Retinoids, Sonic Hedgehog, and Fibroblast Growth Factor 8 in Development of the Forebrain and Face
- Tom Van De Water, Ph.D. (Albert Einstein College of Medicine) Genetic Control of Inner Ear Patterning

Tuesday, April 18

Unbiased Stereology: Methods & Applications in Anatomy & Pathology 10:00 a.m.-12:00 noon
Chair: Dallas M. Hyde, Ph.D. (Univ. of California)

- Dallas M. Hyde, Ph.D. (Univ. of California), Stereology of Tracheobronchial Airways
- Hans Jorgen Gundersen, M.D. (Stereological Research Laboratory, Aarhus Univ.), Basic Stuff About Scientific SAMPLING, . . . in Stereology as Well
- Bente Pakkenberg, M.D. (Stereological Research Laboratory, The Bartholin Institute), Stereology of the Central Nervous System
- Odile A. Mathieu-Costello, Ph.D. (Univ. of California-San Diego), Stereology of Muscle Capillaries and Tissue Capacity for Oxygen Flux

Signaling During Angiogenesis 1:30-3:30 p.m.
Chair: Mary Ann Stepp, Ph.D. (George Washington Univ. Medical Center)

- David Cheresh, Ph.D. (Scripps Research Institute), Integrins, Growth Factors, and Src Family Members in Angiogenesis
- Martin A. Schwartz, Ph.D. (Vascular Biology at Scripps), Signal Transduction by Integrins
- Michael Simons, Ph.D. (Harvard Med. School & the Deaconess Hospital), Syndecan Signaling in Angiogenesis
- Renata Pasqualini, Ph.D. (Burnham Institute), Vascular Targeting in Vivo

**Recent Advances in Muscle Cell Biology** 1:30-3:30 p.m
Chair: Eva Engvall, Ph.D. (The Burnham Institute)
- Michael A. Rudnicki, Ph.D. (McMaster Univ.), Myf-5 Versus MyoD: Functionally Redundant or Functionally Distinct Myogenic bHLH Factors?
- Eva Engvall, Ph.D. (The Burnham Institute), Muscle Cell Adhesion & Muscular Dystrophy
- Terence A. Partridge, Ph.D. (Medical Research Council Clinical Sciences Centre), Markers of Satellite Cell Behavior During Muscle Regeneration
- Emanuela Gussoni, Ph.D. (Children’s Hospital), Isolation of Muscle-derived Stem Cells with the Potential of Differentiating into Muscle and Hematopoietic Lineages

**AMERICAN ASSOCIATION OF VETERINARY ANATOMISTS (AAVA) PROGRAM**

**Saturday, April 15**

**Veterinary Anatomy** 9:00-12:00 noon
Chair: Larry E. Freeman, D.V.M., M.S. (VA-MD Regional College of Vet. Medicine)
- Sang-Soep Nahm, Ph.D. (Texas A&M Univ.), Effects of Inferior Olivary Input on Purkinje Cell Death in the Calcium Channel Mutant Mouse, Leaner (tgla/tgla)
- Hany A. El-Habback, Ph.D. (Cairo Univ.), Possible Origin of Rodlet Cellin O.Niloticus
- Louise C. Abbott, Ph.D. (Texas A&M Univ.), Stimulation of Climbing Fibers Using Harmaline Reduces Myoclonic-like Seizures in Homozygous Tottering (tg/tg) Mice
- Laurie A. Jaeger, Ph.D. (Texas A&M Univ.), Functional Activation of Conceptus and Maternal Integrins
- Thomas Caceci, Ph.D. [Amal A. Ahmed, B.V.Sc., M.S., Ph.D.] (VA-MD Regional College of Vet. Medicine), Immunolocalization of Relaxin in the Ovary of the Dromedary (Camelus dromedarius)
- Larry E. Freeman, Ph.D. (VA-MD College of Vet. Medicine), Double Cranial Vena Cavae in a Horse
- Judy A. Provo, Ph.D. (Kansas State Univ.), Relationship of Student Spatial Ability and Gender to Performance in Veterinary Gross Anatomy
- Judy A. Provo, Ph.D. (Kansas State Univ.), Changing Demographics of Veterinary Private Practice
- Carlton H. Lamar, Ph.D. (Purdue Univ.), Veterinary Clinical Anatomy Taught on the Internet

**Poster:**
Mohammed K. Khalil, D.V.M., M.S. (Purdue Univ.), The Application of Hypermedia in Teaching Anatomy: An Exploratory Trial

**AAVA Business Meeting and Discussion** 1:30-4:30 p.m.

**CAJALCLUB/AAA NEUROSCIENCE PROGRAM**

**Saturday, April 15**

**C.J. Herrick Award Lecture** 5:00-6:00 p.m.
Cori Bargman, Ph.D. (Univ. of California, San Francisco), Olfactory Signaling and Olfactory Behavior in C. elegans
Sunday, April 16

Krieg Cortical Kudos 2000 Awards (Cajal Club) 8:30-11:00 a.m.
The Cortical Scholar: Nenad Sestan, Ph.D. (Yale University), Notch Signaling & Cortical Neurite Growth
William H. Bosking III, Ph.D. (Duke Univ.), Neuronal Connection & Neuronal Responses in Visual Cortex
The Cortical Explorer: Catherine S. Woolley, Ph.D. (Northwestern Univ.), Estrogen & Hippocampal Circuitry
The Cortical Discoverer: Vernon B. Mountcastle, Ph.D. (Johns Hopkins Univ.), How Should We Think About the Cerebral Cortex?

The Nissl Body’s Poster Session 12:00 noon-2:00 p.m.
Organizer: Charles E. Ribak, Ph.D. (Univ. of California-Irvine)

Presidential Symposium: 2:30-5:00 p.m. Building a Cortex
Chair: Vivien Casagrande, Ph.D. (Vanderbilt Univ. School of Medicine)
  - Pasko Rakic, M.D., Sc.D. (Yale Univ. School of Medicine), Control of Cell Proliferation & Allocation in Cerebral Cortex
  - John L.R. Rubenstein, M.D., Ph.D. (Univ. of California-San Francisco), Genetic Control of Mouse Cortical Development
  - Dennis D.M. O’Leary, Ph.D. (Salk Institute), Regulation of Thalamocortical Axon Pathfinding and Neocortical Arealization
  - Jurgen Bolz, Ph.D. (Univ. Jena, Germany), How Wiring Molecules Specify Cortical Connections

Thirty-second Annual Pinckney J. Harman Memorial Lecture 5:00-6:00 p.m
Floyd E. Bloom, M.D. (The Scripps Research Institute, Editor-in-Chief, Science), In Genes We Trust—or Do We?

Monday, April 17

Structural & Functional Imaging of the Brain 1:00-3:00 p.m.
Chair: David S. Lester, Ph.D. (FDA)
Supported by an Educational Grant from Wiley-Liss, Inc.
  - Arthur W. Toga, Ph.D. (UCLA Medical School), Computerized Image Construction of Brain Structure & Function
  - Michael E. Phelps, Ph.D. (UCLA Medical School), Molecular Imaging with PET: From Metabolism to Gene Expression
  - Marielle Delnomdedieu, Ph.D. (Duke Univ. Medical Center), Virtual Neuropathology: Magnetic Resonance Imaging Microscopy of Brain Structure & Function
  - David A. Benaron, M.D. (Stanford Univ.), Imaging Brain Function, Tumors, Infection, & Gene Expression Using Light

EDUCATION PROGRAM

Saturday, April 15

Refresher Course: Neuroendocrinology at the Beginning of the 21st Century 2:00-5:00 p.m.
Supported by an Educational Grant from Wiley-Liss, Inc.
Co-Chairs: Charles A. Blake, Ph.D. (Univ. of South Carolina School of Medicine) & Sue Ann Miller, Ph.D. (Hamilton College)
  - Roger A. Gorski, Ph.D. (UCLA School of Medicine), Sexual Differentiation of the Brain
  - Judith L. Turgeon, Ph.D. (Univ. of California School of Medicine, Davis), The Ins & Outs of Anterior Pituitary Regulation
  - Roger D. Cone, Ph.D. (Vollum Institute, Oregon Health Sciences Univ.), Neuroendocrine Circuitry Underlying Energy Homeostasis
  - Jeffrey S. Flier, M.D. (Harvard Univ., Beth Israel Deaconess Medical Center), The Physiological Role of Leptin
Sunday, April 16

**Young Anatomists in Transition: Women’s Issues** 11:00 a.m.-1:00 p.m.
Chair: **Ann Poznanski, Ph.D.** (Midwestern Univ.)
Supported by an Educational Grant from Wiley-Liss, Inc.
- **Ann E. Sutherland, Ph.D.** (Univ. of Virginia), *Issues for Young Women Anatomists: View from an Academic Medical School*
- **Linda Walters, Ph.D., PT** (Midwestern Univ.), *Creating a Positive Professional Environment for a Successful Teaching Career*
- **Ann Poznanski, Ph.D.** (Midwestern Univ.), *Strategies for Adapting to the Changing Career of an Anatomist: Women’s Issues*

International Approaches to Biomedical Graduate and Postdoctoral Training Programs in the Twenty-First Century 1:30-4:30 p.m.
Supported by an Educational Grant from Proctor & Gamble Pharmaceuticals
Co-Chairs: **Robert R. Cardell, Ph.D.** (Univ. of Cincinnati, College of Medicine) & **Richard L. Drake, Ph.D.** (Univ. of Cincinnati, College of Medicine)
- **Robert R. Cardell, Ph.D.** (Univ. of Cincinnati, College of Medicine), *International Approaches to Biomedical Graduate and Post Doctoral Training Programs in the Twenty-first Century: Introduction*
- **Trevor M. Penning, Ph.D.** (Univ. of Pennsylvania), *International Approaches to Biomedical Graduate and Post Doctoral Training Programs in the Twenty-first Century: United States of America*
- **Gary D. Burkholder, Ph.D.** (Univ. of Saskatchewan), *International Approaches to Biomedical Graduate and Post Doctoral Training Programs in the Twenty-first Century: Canada*
- **Jean-Pierre Timmermans, Ph.D.** (Univ. of Antwerp), *International Approaches to Biomedical Graduate and Post Doctoral Training Programs in the twenty-first Century: Europe*
- **Kazuhiro Abe, Ph.D.** (Hokkaido Univ.), *International Approaches to Biomedical Graduate and Post Doctoral Training Programs in the Twenty-first Century: Japan*
- **Audrey Ettinger, Ph.D** (Stanford Univ.), *International Approaches to Biomedical Graduate and Post Doctoral Training Programs in the Twenty-first Century: Perspectives of a Postdoc*

Monday, April 17

Anatomy Education Breakfast Roundtables 8:00 a.m.
Supported by an Educational Grant from Wiley-Liss, Inc.
*Gross Anatomy: Kathy K.H. Svoboda*
*Histology: David Desha*
*Neuroanatomy/Neuroscience: James L. Olds*

Tuesday, April 18

Anatomy Outreach: Anatomy Education Programs Inside & Outside of the Medical School 9:30-11:30 a.m.
Supported by an Educational Grant from Gold Standard Multimedia
Co-Chairs: **Stephen W. Carmichael, Ph.D.** (Mayo Clinic) & **A. Wayne Vogl, Ph.D.** (Univ. of British Columbia)
- **Calvin D. Roskelley, Ph.D.** (Univ. of British Columbia), *Teaching Anatomy to the General Undergraduate Population: Dealing with the Volume*
- **Scott Lozanoff, Ph.D.** (Univ. of Hawaii), *Gross Anatomy as an Elective and Beyond*
- **Stephen Carmichael, Ph.D.** (Mayo Clinic), *Anatomy Education for Post-Graduate Trainees*

Histology Education & Assessment 1:00-3:00 p.m.
Supported by an Educational Grant from Wiley-Liss, Inc.
Co-Chairs: **David L. Desha, Ph.D.** (LSU School of Medicine) & **John P. Naftel, Ph.D.** (Univ. of Mississippi Medical Center)
- **Hiroshi Hirano, Ph.D.** (Kyorin Univ.), *Current Trends in Histology Teaching in Japan*
- Ron Dudek, Ph.D. (East Carolina Univ. School of Medicine), *A Web-site Based Histology Course in a Lecture-less Environment*
- Stanley Erlandsen, Ph.D. (Univ. of Minnesota), *Optimizing Learning in Histology: A Role for Microscopes in the 21st Century*
- Richard T. Robertson, Ph.D. (Univ. of California - Irvine), *Practical Histology: Tissue Slides, Kodachromes, or Electronic Images - Which is the Best Medium?*
- David DeSha, Ph.D. (Louisiana State Univ. Medical Center - Shreveport), *Teaching with Microscopes and Multimedia*

**Teaching Innovations in Anatomy (Minisymposium)** 3:00-5:00 p.m.
(see details below)

**MINISYMPOSIA**

**Saturday, April 15**

**Angiogenesis & Growth Factors** 11:00 a.m.-1:45 p.m.
Chair: Christopher J. Drake, Ph.D. (Medical Univ. of South Carolina)
- **Christopher J. Drake, Ph.D.** (Medical Univ. of South Carolina); *Endothelial Cell Density Defines Microvascular Pattern*
- **H. Scott Baldwin, Ph.D.** (Univ. of Pennsylvania); *Qualitative and Quantitative Analysis of Embryonic Pulmonary Vessel Formation In Vivo and In Vitro*
- **Xinping Yue** (Univ. of Iowa); *VEGF 165 and VEGF 121 Differentially Activate VEGF Receptors*
- **James R. Hawker, Ph.D.** (Texas A & M Univ.); *TGFß Represses Proliferation and Promotes Tube Formation of Coronary Venular Endothelial Cells*
- **Eric S. White** (Univ. of Michigan Medical Center); *Modulation of Macrophage-Derived Angiogenic Activity by Extracellular Matrix Proteins*
- **John C. Kumer, Ph.D.** (Sidney Kimmel Cancer Center); *Proteomic Mapping of Angiogenesis-induced Targets at the Endothelial Cell Surface and Caveolae of Tumors In Vivo*
- **Josef H. Wissler, Ph.D.** (ARCONS Applied Research); *Monoclonal Antibody [mAb] to Angiotropin Ribokine [AT], an Extracellular Leukocytic copper-ribonucleoprotein Cytokine [CuRNP] for Non-Mitogenic Angio-Morphogenesis*
- **Douglas A. Arenberg, Ph.D.** (Univ. of Michigan); *Monocyte Angiogenic Activity Induced by Lung Cancer Cell Lines*
- **Wei Zheng** (Univ. of Iowa); *Cyclic Stretch-Induced Upregulation of Growth Factor Receptors in Coronary Microvascular Endothelial Cells*
- **John M. Velkey** (Univ. of Mississippi Medical Center); *Developing Coronary Arteries in the Azquire Patent Connections to the Aorta by A Mechanism Involving Apoptosis*

**Leukocyte Adhesion, Migration & Inflammation** 2:00 p.m.-4:30 p.m.
Chair: Scott I. Simon, Ph.D. (Univ. of California, Davis)
- **Scott I. Simon, Ph.D.** (Univ. of California, Davis); *L-Selecting Signaling of Neutrophil Function Involves p38 MAP Kinase*
- **Joachim Werr** (Karolinska Institute); *Engagement of β₂ integrins Induces β₁ Integrin Receptor Expression in Human Neutrophils*
- **Anne E. Hicks** (Univ. of Sheffield); *Anti-inflammatory Effects of TBC1269 are Not Due to Competitive Inhibition of Leukocyte Rolling*
- **Keith E. Norman, Ph.D.** (Univ. of Sheffield); *P-selectin Deficiency Protects Mice From a Lethal Intravascular Coagulation Reaction – Intravital Microscopic Observations*
- **Karen Stokes** (LSU Health Sciences Center); *NADPH Oxidase Contributes to Hypercholesterolemia-induced Leukocyte-Endothelial Cell Adhesion*
- **T. Rui, Ph.D.** (London Health Sciences Center); *Cardiac Myocytes Develop Tolerance to Anoxia/reoxygenation with Respect to Their Ability to Promote PMC Transendothelial Migration: Role of Oxidant Stress*
- **Karen L. Oslund** (Univ. of California, Davis); *Oxidant-Injured Airway Epithelial Cells Do Not Produce IL-8*

- **Carmen V. Ionescu, Ph.D.** (London Health Sciences Center); *Disorganization of Endothelial Adherens Junctions During PMN Transendothelial Migration*

**Sunday, April 16**

**Melatonin & Breast Cancer** 8:30-11:00 a.m.
Chair: **Stephen Hill, Ph.D.** (Tulane Univ. School of Medicine)
- **Stephen Hill, Ph.D.** (Tulane Univ. School of Medicine); *Prevention and Regression of Breast Cancer with the Combination of Melatonin and Retinoic Acid*
- **Todd L. Kiefer** (Tulane Univ. School of Medicine); *The Modulation of Steroid Activity By Melatonin in MCF-7 Human Breast Cancer Cells*
- **David E. Blask, Ph.D., M.D.** (Bassett Research Institute); *Chronobiological Regulation of Cancer Fatty Acid Metabolism and Growth By Light and Melatonin*
- **April Collins** (Tulane Univ. School of Medicine); *Overexpression of the mt1 Melatonin Receptor Enchances Melatonin's Growth-Inhibition of Human Breast Cancer Cells*
- **Russell Reiter, Ph.D.** (Univ. of Texas Health Science Center); *Molecular Damage to Nuclear DNA Resulting from Reactive Oxygen Species: Protection by Melatonin*
- **William S. Baldwin, Ph.D.** (Clemson Univ.); *Attenuation of Receptor-mediated Growth in Estrogen-Dependent Cells by Melatonin*
- **Jun Dai** (Tulane Univ. School of Medicine); *Pineal Gland Hormone Melatonin Regulates Transcriptional Activity of RORa in MCF-7 Breast Cancer Cells*
- **Marnie Saunders, Ph.D.** (Penn State College of Medicine); *Gap Junctional Intercellular Communication is Restored in Metastasis-Suppressed Breast Carcinoma Cells*
- **Ying-Yi Xiao** (Oregon State Univ.); *Novel Factors That Bind to the Negative Regulatory Fragment of m-Calpain Promoter for Repressing the Transtricption of m-Calpain Large Subunit*

**Signaling & Cell Adhesion Molecules** 9:00 a.m.-12:00 noon
Chair: **Kathy K.H. Svoboda, Ph.D.** (Baylor College of Dentistry)
Intro: **Kathy K.H. Svoboda, Ph.D.** (Baylor College of Dentistry)
- **Ahmet C. Tufan** (Thomas Jefferson Univ.); *WNT-7A Over-Expression Alters N-Cadherin and Inhibits Limb Mesenchymal Chondrogenesis In Vitro*
- **Jason Tracy** (Boston Univ. School of Medicine); *The Kinetics of Hyperbaric Oxygen on Cellular Proliferation, and Growth Factor Receptor Expression*
- **Calvin D. Roskelley, Ph.D.** (Univ. of British Columbia); *Overexpression of the Integrin-Linked Kinase Causes a Mesenchymal Transformation of Mammary Epithelial Cells*
- **David J. Mulholland** (Univ. of British Columbia); *the Localization of ßIntegrin and Cadherin Mediated Signaling Molecules in the Rat Seminiferous Epithelium*
- **Michael Schwemmer, Ph.D.** (Albert-Ludwigs-Univ.); *Pro-Adhesive PECAM-1 and Cytotoxic Ferritin are Upregulated During Long-Term Glyceryl Trinitrate Administration*
- **Margaret Colden-Stanfield, Ph.D.** (Morehouse School of Medicine); *Clustered Very Late Antigen-4 (VLA-4) Intergrins Augment Oxidative Burst Activity in Human Monocytes*
- **Navesh Sharma** (Univ. of Iowa); *Vasculogenic Mimicry by Aggressive Prostate Cancer; Molecular Mechanisms Contributing to Invasive Behavior*
- **Lei Huang** (Tufts Univ.); *Molecular Characterization of a Novel Kinase-Associated Intercellular Hyaluronan-Binding Protein*
- **Dong H. Cai** (Creighton Univ.); *Effect of MMP-Inhibitors on Cardiac Neural Crest Cell and Cushion Cell Migration In Vitro*
- **Raymond B. Runyan, Ph.D.** (Univ. of Arizona); *Epithelial-Mesenchymal Cell Transformation of Cardiac Endothelium is a Multistep, Transcriptionally Regulated, Process in the Atrioventricular Canal*
- **Mary Ann Stepp, Ph.D.** (George Washington Univ.); *Changes in Cellular Junctions During Reepithelialization in the Cornea*
**Fluorescent Probes for Sensory Development** 9:00-11:00 a.m.
Chair: Walter K. Metcalf, Ph.D. Supported by: Molecular Probes
- Jack R. Gray, Ph.D. (Univ. of Oregon); *Use of Double-fluorescence Confocal Microscopy to Examine Changes in Neuronal Connectivity During Development*
- Charles D. Bishop (Baylor College of Dentistry); *Ethanol-Induced Sensory-Motor Deficits in the Zebrafish*
- Andrew Christie, Ph.D. (Univ. of Pennsylvania); *Neurobiotin Injection Reveals Dye-Coupling of Network Neurons and Modulatory Projection Neuron Terminals*
- Andres Collazo, Ph.D. (House Ear Institute); *In Vivo Labeling of Developing Ear Cells Suggest Cell Mixing is More Predominant Than Predicted by Gene Expression*
- Johannes Streicher, Ph.D. (Univ. of Vienna); *3D-Visualization of Gene Expression Patterns and Related Morphological Structures*
- Patrick C. Nahirney (Univ. of British Columbia); *Alterations in Mitochondrial Oxidative Capacity Of Skeletal Muscles Of MDX Mice: A Microphotometric Study On NADH-TR-Stained Cryosections*

**Monday, April 17**

**Cortical Organization, Function, & Evolution** 8:00-10:00 a.m.
Chair: Vivien A. Casagrande, Ph.D. (Vanderbilt Univ. School of Medicine)
- Leah Krubitzer, Ph.D. (Univ. of California, Davis); *The Heterogeneous Nature of the Cerebral Cortex: What is a Cortical Field?*
- Vivien A. Casagrande, Ph.D. (Vanderbilt Univ. School of Medicine); *Changing View of Functional Modules in Primate Visual Cortex*
- Edward M. Callaway, Ph.D. (The Salk Institute); *Parallel and Hierarchical Features of Local Circuits in Monkey VI*
- Jami L. Dantzker, Ph.D. (The Salk Institute); *Layer-Specific Connectivity to Separate Classes of Cortical Inhibitory Interneurons*
- Jennifer M. Ichida (Vanderbilt Univ.); *Coniccogeniculate Feedback in the Primate Visual System*

**Gap Junctions & Development** 10:00 a.m.-12:30 noon
Chair: Robert G. Gourdie, Ph.D. (Medical Univ. of South Carolina)
- Mark Mercola, Ph.D. (Harvard Medical School); *Gap Junction-Mediated Transfer of Left-Right Patternning Signals*
- Alexander M. Simon, Ph.D. (Univ. of Arizona); *Generation of Vascular Connexin Double Knockout Mice*
- Xiaohua Gong, Ph.D. (The Scripps Research Institute); *Gap Junctions and Cataract Formation*
- Lisa W. Norman * (MUSC); *Remodeling of Myocardial CX43 Pattern in the HF-1B Mouse Model for Ventricular Arrhythmias*
- Cecilia W. Lo, Ph.D. (Univ. of Pennsylvania); *a, Connexin and the Modulation of Neural Crest Cell Migration in Mammalian Heart Development*
- Derrick F. MacFabe, M.D. (Univ. of Western Ontario); *The Role of Calmodulin and pH on Gap Junctional Communication in Rodent Hippocampal Organotypic Slice Cultures*
- Hubert W. Burden, Ph.D. (East Carolina Univ.); *Effects of Pelvic Neurectomy and RU 486 on the Immunohistochemical Demonstration of Connexins in the Pregnant Rat Uterus*

**Computational Neuroanatomy** 10:15 a.m.-12:45 p.m.
Chair: Giorgio A. Ascoli, Ph.D. (Krasnow Institute for Advanced Studies)
- Giorgio A. Ascoli, Ph.D. (Krasnow Institute for Advanced Studies); *Progress and Perspectives in Computational Neuroanatomy*
- William B. Marks, Ph.D. (NINDS, NIH); *The Form of Motoneurons Maximizes the Volume of Tissue Invaded, Weighted by Connectivity to Soma*
- Jeffrey L. Krichmar, Ph.D. (The Neurosciences Institute); *The Need for Computational Neuroanatomy - Neuromorphology’s Shaping of Neurophysiology*
- Michael Hucka, Ph.D. (California Institute of Technology); *The Modeler’s Workspace: Making Model-Based Studies of the Nervous System More Accessible*
Jaap van Pelt, Ph.D. (Netherlands Institute for Brain Research); *Modeling Dendritic Branching Patterns, Axonal Navigation and Synaptic Competition*

Gwen A. Jacobs, Ph.D. (Montana State Univ.); *Predicting Computational Properties of Neuronal Ensembles Using a Database of Reconstructed Neurons*

Henry Markram, Ph.D. (Weizmann Institute); *Reconstructing a Neocortical Column*

William R. Shankle, M.D. (Univ. of California, Irvine); *Estimating Cortical Connectivity from Statistical Properties of the Postnatal Human Brain*

Gully A.P.C. Burns, Ph.D. (Univ. of Southern California) and Claus H. Hilgetag, Ph.D. (Boston Univ.); *The Computational Representation and Analysis of Neuroanatomical Knowledge Limiting the Problem of Information Overload in Neuroscience*

**Functional Brain Imaging** 3:30-5:30 p.m.
Chair: John Mazziotta, Ph.D. (UCLA School of Medicine)

- Michael Zeineh (Univ. of California, Los Angeles); *Application of Cortical Unfolding Techniques to Functional MRI of the Human Hippocampal Region*
- Nader Pouratian (Univ. of California, Los Angeles); *Experience-Dependent Modulation of Intrinsic Optical Signals*
- Shahriar S. Yaghoubi (Univ. of California, Los Angeles); *Assessment of Gene Expression Utilizing Two Adenoviral Vectors and Positron Emission Tomography*
- Andrew S. Greene, Ph.D. (Medical College of Wisconsin); *Compression of Blood Oxygen and Blood Volume Sensitive MRI Responses to Graded Neuronal Activation in the Rat*
- Isaac O. Opole, Ph.D. (Univ. of California, Irvine); *Non-Line Transformations in Functional Imaging: Examination of Corticosrulate Connections by PET and Diffusion Tensor MRI*
- David S. Lester, Ph.D. (FDA); *Innovative Imaging Approaches for Detecting Brain Neurotoxicity*

*Tuesday, April 18*

**Animal Models of Spinal Cord Injury** 8:00 a.m.-10:00 a.m.
Chair: Isobel A. Scarisbrick, Ph.D. (Mayo Clinic and Foundation)

- George F. Martin, Ph.D. (Ohio State Univ.); *The North American Opossum as a Model for Spinal Cord Injury Research*
- M.S. Beattie, Ph.D. (Ohio State Univ.); *Cell Death and Repair After Spinal Cord Injuries*
- Phillip G. Popovich, Ph.D. (Ohio State Univ.); *Manipulating the Neuroimmune Axis After Spinal Cord Injury: Experimental and Clinical Considerations*
- Isobel A. Scarisbrick, Ph.D. (Mayo Clinic and Foundation); *Preferential Expression of a Novel Serine Protease by Oligodendrocytes of the Adult Rodent Spinal Cord*

**Neuroendocrinology of Aging** 10:30 a.m.-12:30 p.m.
Chair: Andrea C. Gore, Ph.D. (Mount Sinai School of Medicine)

- Dirk Adriaensen, Ph.D. (Univ. of Antwerp); *P2X, Purinoreceptors in the Lung: Nerve Terminals in Neuroepithelial Bodies (NEBs)*
- Yanping Kong, Ph.D. (Children’s Hospital-Boston); *Notch Signaling in Mouse Lung Development: A Diversity of Effects*
- Kristine M. Krajnak, Ph.D. (West Virginia Univ.); *Age-Related Changes in the Suprachiasmatic Nucleus are Associated with Reproductive Senescence in Female Rats*
- Tami Wolden-Hanson, Ph.D. (GRECC); *Neuroendocrinology of Energy Balance in the Aging Male Brown Norway Rat*
- Naomi E. Rance, Ph.D. (Univ. of Arizona); *Changes in Morphology and Neuropeptide mRNAs in the Hypothalamus of Postmenopausal Women*

**Teaching Innovations in Anatomy** 3:00-5:00 p.m.
Co-Chairs: Richard L. Drake, Ph.D. (Univ. of Cincinnati College of Medicine) and John W. Lough, Ph.D. (Medical College of Wisconsin)

- Neal S. Latman, Ph.D. (Texas Tech Univ.); *Gross Anatomy Courses in Allied Health*
• Geoffrey D. Guttmann, Ph.D. (Univ. of Saskatchewan); 3-D and 4-D Animation: The Next Step in Anatomical Visualization

• James H. Sheetz, Ph.D. (Univ. of Alabama); Computerized Practical Exams in a Multimedia Cell and Tissue Biology Course

• Judith M. Venuti, Ph.D. (Columbia Univ.); The Development of an Electronic Curriculum for Clinical Anatomy

• Frederic Martini, Ph.D. (Univ. of Hawaii at Manoa); A Digital Cadaver for Student Exploration in Traditional or Web-Based Anatomy Courses

• David J. Porta, Ph.D. (Bellarmine College); Development of a Self-Instructional Answer Key for Anatomy Practical Exams

POSTER SESSIONS

• Angiogenesis
• Cardiac Growth & Development
• Cardiovascular
• Cellular Growth & Development
• Epithelial Cell Biology
• Imaging & Microscopy
• Neural Growth & Development
• Neurobiology
• Respiratory
• Signal Transduction
• Skeletal Muscle Growth & Development
• Teaching of Anatomy & Physiology
American Association of Anatomists  
Executive Committee Meeting  
Minutes  
October 16, 1999  
Washington, DC

Attendance — Members: Drs. David Burr, Stephen Carmichael, Jim Culberson, Duane Haines, Kathryn Jones, Robert McCuskey, Drew Noden, Allan Sinning, Robert Specian, Kathy Svoboda, Robert Yates. Guest members: David Lester (for part of meeting), Charles Slonecker, James Story. Other guests (for parts of meeting): Adrianne Noe; FASEB – Sidney Golub; Wiley – Brian Crawford, Joe Ingram. Staff: Mary Doll, Andrea Pendleton, Donna Stivers. Absent: Drs. Bruce Carlson, Ellen Dirksen, Michael Ross, Margaret Wong-Riley

The meeting was called to order by President Robert Yates.

A. Approval of Minutes
The minutes of the April 16, 1999, Executive Committee meeting at EB ’99 in Washington, D.C. were approved without any changes.

B. President’s Report
- Dr. Yates reviewed the current terms of the Developmental Dynamics contract and noted that AAA is discussing a contract extension if Wiley’s concessions will help ensure long-term financial stability for the society.
- He said that the revised Articles of Incorporation and Bylaws were 98% complete.
- He reviewed the work of the Transition Committee, explaining that their charge was to make recommendations on the AAA transition from an officer-driven to a staff-managed association.
- Dr. Yates also mentioned that, for the first time, AAA has established a Finance Committee and developed a budget for the coming year.

C. National Office Report
- Referring to the summary report in the committee materials, Ms. Pendleton high-lighting efforts related to membership, public affairs, and the Annual Meeting.
- Dr. Noden suggested that we do everything we can to make AAVA feel welcome as a guest society at EB.
- Dr. Slonecker noted that the AAA Newsletter is much improved.

D. Experimental Biology 2000
D.1 Program Update (K. Svoboda & R. Specian)
Dr. Svoboda reported that there are no longer themes for the EB meeting, which will mean some changes in how sessions are programmed for next year. She said that letters have gone out to encourage student abstracts and that a special effort is being made to bring those who teach anatomy back to the AAA Annual Meeting. Among these are a special joint poster session on teaching with the American Physiological Society and a new series of Education Breakests.

Dr. Specian pointed out that there had once again been problems in working with the Cajal Club on their program. He asked that AAA push them to become a formal guest society at EB, as the American Association of Veterinary Anatomists has done.

D.2 Funding Solicitation Letters
Dr. Svoboda encouraged members to solicit funds for symposia and mini-symposia.

D.3 Guest Society Updates
Dr. Specian noted that Dallas Hyde is talking to the International Society of Stereologists about becoming a guest society.

Dr. Carmichael presented a proposal asking that the Histochemical Society be approved as an AAA guest society for EB 2003, organizing two symposia – one technique-based and the other scientific.

The Executive Committee passed the following motion:
MOVED, that the Histochemical Society be approved as an AAA Guest Society for EB 2003.

D.4 Japanese Update
Dr. Yates reported that Lynn Opperman of Baylor College of Dentistry will speak at the March 2000 meeting in Yokohama on “Hard Tissue Biology” and that he would also attend the meeting. For EB 2000, the Japanese will send two representatives, Prof. Abe and Prof. Hirano. The 2001 meeting in Japan will be on “Regeneration, Aging, & Apoposis” and the 2001 focus for EB will be “Signal Transduction.”

Dr. Yates also noted that Prof. Hirano is interested in having a three-way alliance that would include the Italian Society of Anatomists. Dr. Noden asked that AAA establish a policy about the disbursement of funds for travel to international meetings. Dr. Slonecker suggested that Dr. Yates write a newsletter article about how members have been selected to attend past international meetings and what meetings are scheduled in the future.
D.5 Abstract Solicitation
Members were urged to solicit abstracts from colleagues and students.

D.6 Ideas to Promote Attendance
- Letter sent from Kathy Svoboda to all invited speakers.
- Letter will go from Bob Yates to all chairs.
- Dec. newsletter will include info on late-breaking abstract deadline and special one-day rate for the Tuesday/Education program.
- Consider an award for the best-represented department.

E. Advisory Committee of Young Anatomists
Dr. Sinning reported that the committee is seeking 3 new members and that Ann Ramsdell is the contact for the YES Mixer at EB 2000. He distributed a written report reviewing the past year’s activities and noting the following upcoming activities:
- evaluating student award announcements to ensure that all requirements and expectations are listed;
- looking for ways to increase the student applicant pool;
- developing a young anatomist mentoring system;
- preparing a draft proposal for a young anatomist symposium at EB.

F. Awards

F.1 Award for Best Student Publication
Dr. Sinning distributed a draft proposal for this new award. Key points of discussion were:
- ACYA decided to shift from student award to “new investigator” award.
- Ideas for publicizing: send to journal authors, mentors, involve the editors.
- Have all nominees present their work at an EB minisymposium.
- Consider a way to recognize all young authors in AAA journals.
- Increased the proposed prize to $500 in travel support and a $500 honorarium.

The Executive Committee passed the following motion:
MOVED, that the AAA establish a Young Anatomist’s Publication Award, as proposed by the Advisory Committee of Young Anatomists, with amended support level.

Dr. Sinning and Ms. Pendleton will work out a timetable for publicity and selection process, with the first prize to be awarded at EB 2001.

F.2 Young Faculty Travel Award

The Executive Committee passed the following motion:
MOVED, that the AAA establish a Young Faculty Travel Award, as described in the attached scope, with the following amendments:
- There will be 5 awards of $500 each.
- The awards will be made on a competitive basis with criteria similar to the Young Anatomist’s Publication Award.

F.3 Outstanding Dissertation Award

The Executive Committee passed the following motion:
MOVED, that the AAA will establish a Young Anatomist’s Publication Award and a Young Faculty Travel Award, and that the Outstanding Dissertation Award will be discontinued.

F.4 Award Scopes
For information only; no discussion.

G. Membership
Ms. Pendleton reviewed the membership renewal process and promotional mailings. Ms. Doll presented an overview of the capabilities of the new membership database on iMIS. Dr. Svoboda asked that we consider collecting member photos for the database. It was suggested that we send “member prospect letters” to authors who publish in selected non-AAA journals; a list from Board members and guest societies would be appropriate.

H. FASEB
FASEB’s new executive director, Dr. Sidney Golub, provided a brief overview of FASEB’s role, noting in particular that:
- there is an increased commitment to public affairs;
- there is also an increased commitment to proactively developing science policy positions;
- at the same time, FASEB is also a service organization and, as such, wants to be especially responsive to the needs of small-to-medium societies; the two newest member societies bring the total to 66,000 individual scientists;
- there are ongoing discussions about how an increase in member societies will affect governance.

I. Public Affairs
Dr. Lester, chair of AAA’s Public Affairs Committee (PAC), reviewed the process by which the PAC considers public policy positions: the committee discusses various issues and then recommends an AAA position;
this position may be communicated to FASEB (if appropriate) or become part of a separate AAA stance. He noted that AAA has taken a lead role within FASEB in some areas, particularly in regard to animal welfare issues related to USDA.

J. **AAA Newsletter & Web Site** – no discussion

K. **Applications in Biomedical Imaging Symposium**

Dr. Lester gave a brief overview of the proposal, noting that it represented an important opportunity for AAA to create a strong identity and stake a claim to imaging applications. He stressed that potential alliances with industry and with various NIH institutes could “quickly put AAA on the map” in this area. Dr. Noe reiterated the timeliness of the proposal, noting that there is currently a lot of interest in imaging technologies. She mentioned that the National Museum of Health and Medicine gets about 100,000 visitors per year and that its anatomy collection is the only non-building to have National Historic Landmark status. The NMHM is, therefore, a high profile place to connect with the public.

Discussion points included:
- Could the program be expanded to include other students?
- Consider submitting an R13 grant.
- Consider Web posting rather than CD-ROM.
- This is exactly the kind of program that Wiley would like their symposia funding to be used for.

The Executive Committee passed the following motion:

MOVED, that the AAA co-sponsor the Applications in Biomedical Imaging Symposium and provide support of $20,000, to be taken from the Wiley symposium funding.

The only concerns expressed related to where this funding fits in the overall AAA budget and the issue of letting members know that funds may be available for non-EB meetings.

L. **Journals**

L.1 **Overview**

Mr. Crawford said that both AAA journals are healthy, but noted that *Developmental Dynamics* faces stiff competition. New investment in *DD* in terms of added color and an upcoming change in some editors would “raise it another notch” in terms of quality. He noted that AAA’s journals are now full-text searchable via Wiley InterScience. Board members were sent online access notification about 6 weeks ago; all members will have access for their chosen journal plus *The New Anatomist* beginning January 1, 2000.

Mr. Crawford also reviewed plans for ASAP (As Soon As Publishable) publishing, where journal articles will be posted online with citable page references as soon as they’re ready (about 3-4 weeks prior to print). *DD* will be the first Wiley journal in this new service. He also expects increased color and electronic submission in the coming year. He said that Wiley is sensitive to the fact that library rates are no longer elastic and that it’s not feasible to link more color to higher rates.

Questions posed for further consideration:
- What about reduced rates for AAA members on other Wiley journals?
- What about AAA offering reduced rates on its journals to other society members?

L.2 **Appointment of Journal Contracts Subcommittee**

The Executive Committee passed the following motion:

MOVED, that John Fallon, Duane Haines, Robert Yates, and Andrea Pendleton (ex officio) be appointed as members of a Journal Contracts Subcommittee, with authority to approve a new contract for *Developmental Dynamics* and revised terms for *The Anatomical Record*, in accordance with the views of the Executive Committee as expressed at this meeting.

L.3 **Developmental Dynamics Contract Negotiation**

Dr. Yates reviewed the negotiating process and timetable, explaining that AAA was seeking various considerations from Wiley in exchange for extending both the *AR* and the *DD* contracts.

L.4 **Marketing** – no discussion

L.5 **E-Biomed/PubMed Central Update**

Mr. Crawford noted that Wiley InterScience is designed so that there could be linkage with PubMed Central. However, he said that libraries want to receive accurate reporting of online usage and, therefore, would object to having all info coming from the NIH server. Mr. Ingram said that the ½-life of *AR* articles is about 10 years; therefore, if articles were posted at no cost prior to that period, libraries might stop their subscriptions. Ms. Pendleton raised the issue of customer service problems stemming from the fact that users would think that the information was coming from the original publisher, even if it was coming from the NIH server.

M. **Transition Task Force Report**

Dr. McCuskey reviewed the report and recommendations of the Transition Task Force, which define the duties of the Secretary-Treasurer and the Executive Director, move the AAA accounting function to the National Office effective January 1, 2000, and provide continued oversight by the Task Force.
The Executive Committee passed the following motion:
MOVED, that the recommendations of the Ad Hoc Transition Task Force be approved.

N. Secretary-Treasurer’s Report

N.1 1999 Interim Income & Expense Statement
Dr. Specian asked about the cost for legal services related to the bylaw revisions; Dr. Yates estimated these at about $10-12,000 for Mr. Benjamin and said he hopes to have an invoice in this calendar year. The interim report was accepted by the Executive Committee.

N.2 Journal Trust Fund Report
In Dr. Ross’s absence, Dr. Haines presented this report. He noted that $150,000 was added to the Journal Trust Fund this year and that the fund has appreciated by $36,729 in 1999 – a 2.52% time-weighted year-to-date return. Concern was expressed that this return is low. The report was accepted by the Executive Committee.

N.3 Dues Discussion/Recommendation for 2001
Dr. Haines noted that a recommendation on dues for 2001 would be made at the next Executive Committee and voted on at the April Business Meeting. Meanwhile, staff will research the dues level and benefits of other related societies.

Ms. Pendleton raised the issue of what AAA might do with the “excess journals” expected in 2000, when the society will be paying Wiley for 1,750 copies but will not likely be needing that many to send to members. Suggestions included sending copies to various depts. for promotional purposes, to depts. in developing countries, and to biology depts. at undergraduate colleges. Staff will explore these options.

N.4 Student Bursary Recommendation for 2000

The Executive Committee passed the following motion:
MOVED, that the Student Bursary for the 2000 Annual Meeting remain at $250 plus a ticket to the AAA Banquet.

N.5 Reimbursement Policy

The Executive Committee passed the following motion:
MOVED, that the proposed policy for travel reimbursement be accepted as amended to provide that mileage is reimbursed at the rate of 31¢/mile or the cost of airfare, whichever is lower.

Staff will develop a reimbursement form to accompany the policy guidelines.

N.6 Directors & Officers Insurance

The Executive Committee passed the following motion:
MOVED, that the AAA purchase Directors’ & Officers (D&O) liability insurance in the amount of $3 million.

N.7 2000 Budget
Dr. Haines reviewed the process for developing the 2000 budget and noted two new items that are included: paying the registration fee for mini-symposia organizers and contributing $5,000 for the September 2000 Pan American Congress in New Orleans. The following points were agreed to in discussion:

- A newsletter article should be written by Dr. Yates to notify members that funds are available to fund new meetings proposed by members, to explain the process for submitting a proposal, and to explain how travel and other support funds are allocated for non-AAA meetings.
- Discussions should begin with the Cajal Club to become an official EB guest society, beginning with the 2001 meeting, as a condition of receiving AAA support of $5,000. Among other things, this would mean having the Cajal Club hold their meeting in the convention center.
- An outside professional audit will be done, with Dr. Haines and Ms. Pendleton working out the details on timing. [Note: FASEB accounting staff recommends that the first audit take place in early 2001, with a review of the 2000 budget year. An audit of 1999 accounts would not be useful because AAA is not using generally accepted nonprofit accounting standards.]
- The 2000 budget will be the last year of support for the AAA archivist stipend and EB booth and travel.

The Executive Committee passed the following motion:
MOVED, that the budget for 2000 be approved.

The Executive Committee passed the following motion:
MOVED, that Dr. Haines work with the Cajal Club to have them become a guest society by EB 2001 in exchange for ongoing support of $5,000 from AAA.

N.8 Report of the Nominating Committee – no discussion

N.9 Report of the IFAA Meeting
Dr. Haines noted that AAA members were involved in the meeting.
The Executive Committee passed the following motion:
MOVED, that the attached AAA Certificate of Incorporation and bylaws be tentatively accepted, as revised at this meeting, with the understanding that a revised copy be distributed to the Executive Committee for final approval and that the process for member approval then be initiated. [Note: It was agreed that Dr. Yates would revise & send to Bylaw Committee for approval, then on to the full Executive Committee, allowing two weeks for review. The goal is to submit for member approval by March 1, 2000.]

AAA Books & Records – Dr. Yates will determine what the legal definition of the society’s “books and records” is. The Transition Task Force will then make a recommendation regarding the storage of such records.

The Executive Committee passed the following motion:
MOVED, that a subcommittee be appointed to establish guidelines for AAA support of non-EB conferences and that this subcommittee report to the Executive Committee at its April 2000 meeting. [Note: Drew Noden, Kathy Svoboda, and Donald Fischman were later appointed to this subcommittee, with Dr. Noden serving as chair.]

Minority Student Luncheon
Dr. Story reported that he will be going to a meeting in San Diego in December to talk to Assistant Surgeon General Michael Trujillo about a speaker for the luncheon.

R. Recess

S. Board Development
Dr. Yates appointed a subcommittee (Dr. Noden, chair; Dr. Carmichael, Dr. Specian) to look at ideas for Board development, including such areas as orientation and Board responsibilities.

T. Executive Director Annual Review
The Executive Committee continued in executive session until adjournment.

Prepared by Andrea Pendleton
AAA Executive Director
American Association of Anatomists
Executive Committee Meeting
Minutes
April 14, 2000
San Diego, California


[The lettered sections below refer to items listed in the meeting agenda.]

President Robert Yates called meeting to order.

A. Approval of Minutes
The minutes of the October 16, 1999, Executive Committee meeting in Washington, D.C. were approved without any changes.

B. President’s Report

B.1 Update on Articles & Bylaw Revision
Dr. Yates reviewed the proxy voting process and outcome. To meet New York State’s corporate voting requirements, AAA needed to have a quorum of 100—either in person or by proxy—at the Annual Business Meeting. In addition, there must be at least 100 votes in favor of the revised Articles and Bylaws. Proxy ballots (1637) were mailed to all 1999 regular and emeritus members on March 9; of these, 244 valid proxies (14.9%) were returned. [Note: Valid = signed, naming a proxy, membership paid for 2000]. All of these were in favor of the new articles and bylaws, thereby satisfying requirements for passage.

B.2 Transition Plan for Board Composition
Dr. Yates proposed the following plan to achieve a smooth transition from the Executive Committee of the former Constitution to the Board of Directors of the new bylaws:
- Although the vice president position has been formally eliminated, Judy Brunso Bechtold, just elected as second vice president, will join the Board of Directors for a full two-year term.
- The bylaws give the President authority to appoint members to fill new vacancies on the Board of Directors. Therefore, Dr. Yates appointed two students—April Collins of Tulane University and Patrick Nahirney of Cornell University Weill Medical College—to fill the newly created student/postdoctoral slots for one year, until the next election is held.

The Executive Committee passed the following motion:
MOVED, that the April Collins of Tulane University and Patrick Nahirney of Cornell University Weill Medical College be asked to serve on the AAA Board of Directors for a one-year term beginning at the end of this year’s Annual Meeting.

- Dr. Haines asked if he could invite the chair of the Journal Trust Fund to attend a Board meeting to present a report, even though this position is not on the Board of Directors. Dr. Yates said that this can be done. Funds would have to be budgeted for this purpose, if needed.

B.3 Committee Appointments
Staff was asked to determine why the terms of those on the Membership Committee aren’t appropriately staggered.

The Executive Committee passed the following motion:
MOVED, that attached list of committee appointments be approved.

B.4 Update on Archival Committee
- Dr. Yates said that he had spoken with Kent Christenson several times and that his advice is to move very slowly and not to antagonize anyone.
- Dr. Slonecker reported that Dr. Erikson is interested in continuing as AAA Archivist and had indicated that the archives are AAA property and would be transferred to the organization.
- The following issues were raised in discussion:
  - Access does not equal ownership; AAA should have a written agreement.
  - Do Dr. Erikson’s heirs understand that AAA owns the archives?
  - Are the records insured?
  - Could a museum curator meet with Dr. Erikson to discuss the potential transition and use of archival materials?
  - There should be better documentation of AAA’s desire to have the information maintained and to have access to it.
  - Board discussions about the value of the materials and the need to move cautiously have been going on for 15 years. What is at stake? What financial resources is AAA prepared to commit?
Archivist
Concern was expressed about the image portrayed by the Archivist’s display at EB. The Executive Committee discussed the value of the information currently maintained by the AAA archivist. Members also confirmed that the 2000 budget will be the last year of support for the AAA archivist stipend and EB booth and travel.

The Executive Committee passed the following motion:
MOVED, that AAA enter into negotiations with George Erikson to gain access to, acquire, copy, or secure archival information related to AAA.
[Note: The Archival Committee will handle this task, with Dr. Slonecker raising this subject with the Archivist.]

Dr. Svoboda made the following motion:

The Executive Committee passed the following motion:
MOVED that AAA establish a committee to explore the possibilities and cost of digitizing the anatomy-related archival materials and also assess if these archives are giftable in a way that would be mutually advantageous to AAA and to Dr. Erikson.

C. Membership

C.1 Renewal Process & Status Report
Ms. Doll reviewed the written report. The following points were raised in discussion:
- The Membership Committee should consider incentives for becoming a member.
- AAA should broaden its international membership.
- AAA information could be posted on the IFAA Web site.
- We need data about the impact of retirements and turnover on membership.
- What are the potential and actual strengths of anatomy and how can AAA address them?
- AAA should change its name to reflect what’s happening within anatomy departments. The chairs’ group has already done this.

C.2 Member Recruitment Efforts and Results to Date
Ms. Doll reviewed the report on new members. Ms. Pendleton described current efforts related to the Human Anatomy and Physiology Society (HAPS):
- Arrangements have been made for HAPS members to receive “extra” AAA journals, on request.
- AAA will have a booth at the HAPS annual meeting in June.
- The HAPS membership chair will be attending various AAA committee meetings at EB to discuss the possibility of future cooperative efforts.

C.3 New Members for 2000 Approval

The Executive Committee passed the following motion:
MOVED that the attached list of new members be accepted.
(75 Regular and 73 Student/Postdoctoral)

D. Secretary-Treasurer’s Report

D.1 Finance Committee Activity Update
Dr. Haines reported that the committee had its first meeting on March 4 in Washington D.C. and that they were developing an investment policy.

D.2 Journal Trust Fund Report
Dr. Ross reviewed the 1999 Journal Trust Fund report. He noted that AAA had an 8.7% overall return on its investments. The return on equities was 15.88% and the return on fixed income was 1.95% in 1999; the current allocation is 45% equities, 24% fixed income, and 31% cash. The 1st quarter report for 2000 was also presented.

D.3 Second Century Fund
Dr. Haines said that the funds and records of the Second Century Fund were being transferred to him at this meeting. There is approximately $42,000 in the fund.

D.4 1999 Year-end Income & Expense Statement
Dr. Haines reviewed the 1999 year-end report. The following points were made in discussion:
- EB 2000 revenue projections are low because the meeting only has four co-sponsoring societies, rather than the usual six or more.
- The legal costs of the bylaw revision process were $27,000.
- The budget for the Anatomical Terminology Committee covers the cost of travel to meetings of the International Terminology Committee for AAA members who serve on this body.
- Audit costs will not be incurred until 2001, when an audit of 2000 takes place.
- Funding for “Non-EB” meetings includes the imaging conference, the Pan American Congress, and AAA representatives to the JAA.
While footnotes in the budget reports will explain this one-time anomaly, Ms. Pendleton urged members to keep this change in mind so that they can respond to questions that might arise.

**D.6  Budget Development Process**

Dr. Haines reviewed the budget timetable: the Board will approve budget assumptions each April, the budget will be developed through the summer, the Board will approve the budget in October, then consider a budget re-estimate the following April prior to approving assumptions for the coming year.

**D.7  Budget Assumptions for 2001**

Ms. Pendleton explained that, by accepting the budget assumptions, the Board was authorizing staff to proceed with the development of a 2001 budget that included estimates for the items in the assumptions. In October, the Board will have the opportunity to review the proposed budget and approve/disapprove of specific items.

**The Executive Committee passed the following motion:**

MOVED that the 2001 budget assumptions be accepted as a working document.

**D.8  Dues for 2001**

Dr. Haines proposed that dues be increased based on the added costs of providing the journals and the fact that the organization now has fewer members. He noted that $100 is a psychological “breakpoint.” The following points were raised in discussion:

- What about holding off on increase for one year, doing survey to assess member needs, then link dues increase to a newly offered service?

Dr. Haines made the following motion, which was approved with one “no” vote:

**The Executive Committee passed the following motion:**

MOVED that AAA dues for 2001 be increased to $120 for Regular Members (including Foreign with journal) and $60 for Student/Postdoctoral Members, with all other categories remaining the same.

**D.9  Election Results**

Dr. Haines announced the following results of the 2000 election:

- Judy Brunso-Bechtold – Second Vice President
- John Lough – Councilor
- Michiko Watanabe – Councilor

**D.10  Cajal Club: Update on Discussions of Becoming Guest Society**

Dr. Haines said that he would be meeting with incoming Cajal Club President Charles Ribak on Saturday, April 15, to discuss this issue.

[Note: The Cajal Club agreed to become a guest society, beginning with the EB 2001 meeting.]

**D.11  Other**

No other related business was reported.

**E.  AAA Outreach Grants**

Dr. Noden explained that he had surveyed a group of members to get their input on the preferred parameters of an AAA grant to support non-EB meetings. In discussing the proposal, the Board agreed to a minor change in the text of the award description (attached), then approved the new program. It was noted that future support for such meetings as the IFAA conference and the Pan American Congress would fall under this new program and that, therefore, a grant application would be required.

**The Executive Committee passed the following motion:**

MOVED that AAA provide for Outreach Grants to support outreach efforts that promote activities, contributions, and opportunities in morphological sciences, as detailed in the attached report.

**The Executive Committee passed the following motion:**

MOVED that AAA allocate $10,000 for Outreach Grants in 2001.
F. FASEB
FASEB President David Kaufman and FASEB Executive Director Sidney Golub joined the Board for a brief discussion of FASEB public policy activities. Dr. Kaufman covered the following topics:
Support for the physician-scientist report proposals
- Concerns about the number of NIH and NSF grants, despite large funding increases
- New NIH director unlikely until after election
- Stem cell research
- Gene patenting
- Impact of ASCB leaving FASEB
- Concerns about budget formats for modular grants

Dr. Golub reported that FASEB is fiscally sound and added $1 million to reserves in 1999. He reviewed plans for a building addition and noted that several societies have contacted FASEB about membership. In May, the Society for Gynecological Investigation will be considered for associate membership.

G. Board Development
Dr. Noden reported that he had done a good deal of reading about Board development and leadership over the past few months. He said that the “take-home message” of his reading was:
- AAA would be better able to meet challenges if the structure and organizational quality of the Board were improved.
- AAA does not have the “proper umbrella” or framework under which to make strategic decisions. He cited the earlier (and previous) discussion about the AAA archives as an example of not really dealing with issues in relation to a long-term strategy.

Dr. Noden proposed that the Board have a two-day meeting in October. Day One would include (1) developing a working consensus on the duties and responsibilities of the Board, along with the behavioral and attitudinal changes this would entail, and (2) training on how to develop and implement a strategic plan. Day Two would be the regular Board meeting, applying the first day’s “learnings” to the business at hand.

The following points were raised in discussion:
- Such training should be part of a continuous process, integrating the Board and the work of committees.
- A strategic plan must be dynamic.

The Executive Committee passed the following motion:
MOVED that the October 2000 mid-year AAA Board Meeting will be expanded to two days, with the first day dedicated to (a) a strategic planning training workshop and (b) developing a working consensus of the duties, responsibilities, and expectations of AAA Board members and officers. This workshop would be organized by the Executive Director working with members of the Board selected by the President, and would be conducted by an outside facilitator. Day Two would implement these approaches in discussions of budget, EB 2001, outreach, journal policies, and other matters arising.

H. Experimental Biology
Dr. Svoboda thanked everyone for their role in promoting this year’s meeting. She noted that preliminary data showed that abstracts were up from 265 in 1999 to 325 in 2000. The EB 2001 Program Committee will meet on Wednesday.

Dr. Carmichael reminded the Board that the Histochemical Society will be an EB guest society for 2003; he said that Beth Unger will be president at that time.

I. National Office Report
Ms. Pendleton briefly reviewed the Web proposal, “AAA: From Association to Community” and said that it would be discussed by the Membership Committee. In highlighting her written report, she stressed the importance of AAA and AACBNC working together in support of the discipline.

J. Advisory Committee of Young Anatomists
Dr. Sinning briefly reviewed his written summary, which provided details on this year’s student and young faculty award candidates. He reported that committees would be set up to consider the feasibility of a Young Anatomists’ Symposium and a mentoring system. He also said that guidelines for the Publication Award have not yet been established and that discussions on the application procedures continue.

K. New Business
Members reviewed possible dates for an October meeting, but no decision was made. Ms. Pendleton will e-mail the Board about available weekends.
L. **Journals**

L.1 *Developmental Dynamics* Contract Update
Dr. Yates reviewed the key terms of the new *Anatomical Record/Developmental Dynamics* contract with Wiley. He noted that there was now a combined annual royalty guarantee for the two journals and that AAA would receive a “special royalty” based on the contract extension.

L.2 Appointment of Journal Task Force
Dr. Yates said he had appointed a task force—John Fallon, chair; Paul Goetinck, Duane Haines, Roger Markwald, Andrea Pendleton—to look into ways of improving the image and visibility of AAA’s journals.

L.3 *Developmental Dynamics*
Dr. Fallon reported on behalf of the editor, Dr. Goetinck, who was unable to attend. He said that the journal has about a 50% acceptance rate. DD had a 1998 impact factor of 3.244, with severe competition and several journals ahead of it. The 1999 numbers were due out in August. As review editor of the journal, Dr. Fallon noted that clusters of review articles are planned for the May and June issues, with several others pending. He asked members to contribute ideas on potential reviews.

Referring to the anticipated work of the Journal Task Force, Dr. Fallon said the group would look at journal competition, the journals’ link to membership, and the coupling of online and print versions.

L.4 *Anatomical Record*
Dr. Litke, AR managing editor, reported on behalf of the editor, Dr. Markwald, who was unable to attend. He reviewed the highlights of a written report that was submitted:
- Submissions for 2000 were up slightly from 1999.
- In 1999, some authors were charged for color, even though 46 pages of the color budget were not used.
- AR was fifth in the “Anatomy & Morphology” subcategory for impact factors: 1.208 in 1997 and 1.32 in 1998.
- New features planned include:
  - EXPRESSions: short, descriptive papers on gene expression patterns; maximum of four pages; peer-reviewed, rapid turnaround, free color. Dr. Noden suggested that each be followed by a one page IMPRESSion commentary.
  - Mouse House: protein expression, anatomical genomics; also maximum of four pages; peer-reviewed, rapid turnaround, free color.

Dr. Litke also reported that new associate editors were being sought.

L.5 **New Anatomist**
Dr. Haines reported that Dr. Karen Augustine had been appointed to the Editorial Board, replacing Dr. Debra J. Wolgemuth, to cover the area of gene expression. He said that NA had published 43 articles in 1999 and had an increase in author-initiated submissions.

Dr. Svoboda suggested that a “letter to the editor” section be considered. Dr. Watanabe suggested that EB symposia organizers be asked to do a summary of their symposia following EB and that these summaries be published as mini-review articles.

L.6 **Wiley Report**
Mr. Ingram noted that the contracts for both journals had been extended until 2021. He provided the following details in his report:
- *AR* and *DD* are both online and available at no charge to institutions that subscribe to the print journal.
- Wiley is still working on AAA member access and is also working on a license arrangement for university consortia.
- Both journals were running on schedule but the manuscript flow was below the page budget.
- Beginning with the July issue of *DD*, articles would be published online as soon as they were approved by the author, with the date of record being the date posted online. This could shorten time to publication by two to three weeks.
- An electronic submission and review system will be introduced for *DD* later this year.
- Online posting of additional data and information related to a published manuscript will begin.
- The new CrossRef system will provide reference links between journals of participating publishers for seamless online access.
- Review articles will be gathered together online as they appear to form a “virtual” review issue. This will be marketed to draw new traffic to the site and the journal. It can be publicized via the AAA Newsletter and linked to the AAA Web site.
- Wiley’s marketing staff will alert AAA in advance about planned mailings so that “piggyback” opportunities can be considered.

Prepared by Andrea Pendleton
AAA Executive Director
American Association of Anatomists  
Past President’s Breakfast  
April 16, 2000  
San Diego, California

Those present were Past Presidents Clemente, Fischman, Gershon, Markwald, Pauly, Peters, Schoenwolf, and Slonecker; President Yates; President Elect Fallon; Secretary-Treasurer Haines; and Executive Director Pendleton.

The meeting was called to order by President Robert Yates.

Dr. Yates opened the meeting with an overview of the past, making the following points:
- AAA’s new Articles of Incorporation and Bylaws had been approved by a vote of the membership.
- The revised Board of Directors eliminated the two vice president positions and replaced them with two positions to be held by student/post-doctoral members.
- The contract for Developmental Dynamics had been successfully renegotiated, with contracts for both this journal and The Anatomical Record extended until 2021.
- AAA had established a Finance Committee for the association; this committee developed AAA’s first annual budget.
- The Finance Committee will recommend to the Board that one-half the interest from the Journal Trust Fund each year be budgeted for new program development efforts.

The following points were made in discussion among the past presidents:
- It’s important to put some of the Journal Trust Fund back into circulation in support of the association.
- AAA should establish a fact-finding committee to assess the future of anatomy departments, then develop a strategy to try to influence decisions affecting the future of the discipline.
- AAA “missed the boat” several times in the last 25 years with cell biologists, neuroscience, and clinical anatomists, because it stuck too closely to the term “anatomy.” It’s time for the organization to change.
- An assessment of the future should include a position paper on the role of anatomy in modern medicine.
- While most schools recognize the importance of teaching anatomy, recognition in the form of promotion is still largely based on research funding.

Following the meeting, Dr. Yates asked John Fallon to chair a committee to develop a report (white paper) establishing the position of the American Association of Anatomists with reference to the importance of the anatomical sciences to the field of medicine. The report should focus on the impact of a lack of understanding of the anatomical sciences on practicing physicians. The theme of the report should not be a self-serving defense of the discipline, but rather a practical and realistic approach to the necessity and importance of understanding anatomical principles to the aspiring physician. When completed, the position paper will be mailed to all Medical School deans and chancellors.

Prepared by Andrea Pendleton  
AAA Executive Director
American Association of Anatomists  
Business Meeting  
Minutes  
April 17, 2000  
San Diego, California

The meeting was called to order by President Robert Yates. Approximately 75 members were in attendance.

A. Approval of Minutes
The minutes of the April 19, 1999, meeting in Washington, D.C. were approved.

B. President’s Report

B.1 Update on Articles & Bylaw Revision
Dr. Yates reported that the new AAA Articles of Incorporation and Bylaws had been passed unanimously by the membership via proxy ballots. He reviewed the proxy voting process and outcome. To meet New York State’s corporate voting requirements, AAA needed to have a quorum of 100—either in person or by proxy—at the Annual Business Meeting. In addition, there must be at least 100 votes in favor of the revised Articles and Bylaws. Proxy ballots (1637) were mailed to all 1999 regular and emeritus members on March 9; of these, 244 valid proxies (14.9%) were returned. [Note: Valid = signed, naming a proxy, membership paid for 2000]. All of these were in favor of the new articles and bylaws, thereby satisfying requirements for passage. Those attending the Business Meeting also voted in favor of passage.

B.2 Transition Plan for Board Composition
The bylaws authorize the president to appoint members to fill Board vacancies until the next general election is held. Dr. Yates recommended and members approved the one-year appointments of April Collins and Patrick Nahirney to fill the newly created student/postdoctoral positions on the Board of Directors. Members also approved the plan for Judy Brunso-Bechtold to serve a full two-year term as vice president, although this position has officially been eliminated under the new bylaws.

C. Executive Director’s Report
Ms. Andrea Pendleton introduced AAA staff members Mary Doll and Donna Stivers. Focusing on membership, she noted that the renewal rate for 2000 was 74% through March 31. With 145 new members in 1999 and 40 so far in 2000, AAA had 1,470 “active” members as of March 31. The Membership Committee will be exploring ideas for increasing retention and bringing in new members. AAA has begun talks with related organizations such as the Human Anatomy and Physiology Society (HAPS) that could lead to cooperative programs and additional members.

D. Secretary-Treasurer’s Report
Dr. Haines conveyed greetings from Dr. George Erikson, AAA’s archivist, who was unable to attend the Annual Meeting.

D.1 Finance Committee update
Dr. Haines reported that AAA had adopted and was working within its first budget for 2000. He also said that the Finance Committee was drafting an investment policy to guide the Journal Trust Fund and other AAA investments.

D.2 1999 Year-end Income & Expense Statement
The 1999 Income and Expense statement, was accepted by the members.

D.3 Dues structure for 2001
Dr. Haines offered a motion that the dues structure for 2001 be increased to $120 for Regular Members (this includes Foreign Members with journal) and to $60 for Student Members (these individuals receive a journal), but remain at $40 for Foreign Members without journal, $35 for Emeritus/Honorary Members with journal, and $0 for Emeritus/Honorary Members without journal. He explained that these increases were needed to cover the cost of providing a journal to each member. The following points were raised in discussion:
- Can AAA explore the possibility of a member discount for other Wiley journals?
- Concern about the impact of added dues on membership renewal.
- Can members opt to only receive a journal online?
- Will dues increase another $25 in near future? Dr. Haines responded that they would not.

The motion was approved.

D.4 Election results
Dr. Haines presented the 2000 election results, as follows:

2nd Vice President: Dr. Judy Brunso-Bechtold
Executive Committee: Dr. John Lough, Dr. Michiko Watanabe

D.5 New Members for 2000 Approval
Dr. Haines asked for a motion to approve 148 new members: 75 Regular and 73 Student. The motion was approved.

D.6 Committee appointments
Dr. Haines asked for a motion to approve committee appointments; the motion was approved.
E. **Experimental Biology**

E.1 **Data on EB 2000**
Dr. Kathy Svoboda, EB Co-Secretary, reported that abstracts were up 25% this year. She welcomed the American Association of Veterinary Anatomists as AAA’s first official guest society this year and reported that the Cajal Club had decided to become an official guest society beginning with the 2001 meeting.

E.2 **Planning for EB2001**
Dr. Svoboda noted that EB 2001 will take place in Orlando from March 31-April 4 with seven co-sponsoring societies. She urged members to get involved and stressed the advantages to young faculty related to organizing a minisymposium.

F. **New Business**
There was no new business.

Dr. Yates adjourned the meeting at 6:25 p.m.

*Prepared by Andrea Pendleton  
AAA Executive Director*
### American Association of Anatomists
#### 1999 Revenue & Expenses

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<tr>
<th>Category</th>
<th>Description</th>
<th>Amount</th>
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<td><strong>Corporate Sponsors</strong></td>
<td>Donations (Annual Meeting)</td>
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<td>Wiley Support (Socializer)</td>
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<td></td>
<td>Wiley Support (Symposia)</td>
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<td>Banquet Income</td>
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<td>MARC/FASEB Support (Minority)</td>
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<td>Yes Mixer</td>
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<td>Other</td>
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<td><strong>Membership Dues</strong></td>
<td>All Categories</td>
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<td><strong>TOTAL REVENUE</strong></td>
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<td><strong>Archives</strong></td>
<td>Annual Support/G. Erikson</td>
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<td><strong>Auditing, Tax Preparation, Legal Expenses</strong></td>
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<td>Hotel &amp; Travel — Spring Meeting</td>
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<td>Hotel &amp; Travel — Others</td>
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<td><strong>Cajal Club</strong></td>
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<td><strong>Committee Expenses (Phone, Photocopying, Postage, Supplies, etc)</strong></td>
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<td>Anatomical Terminology</td>
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<td>Bensley Memorial Lecture</td>
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<td>Gray/Ladman Awards</td>
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<td>Herrick Award</td>
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<td><strong>Dues (FASEB, AAMC, etc.)</strong></td>
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<td><strong>EB Meeting</strong></td>
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<td>Catering/Special Events</td>
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<td>Hotel &amp; Travel — Officers &amp; Committees</td>
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**Journal Expenses**

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**Membership**

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<td>Renewal Expenses</td>
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**Nat’l Office Expenses**

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**Officer/AAA Representatives**

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**President’s Expenses (Special)**

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**Sec.-Treasurer Office**

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**TOTAL EXPENSES**

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**NET REVENUE**

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<td>$ (107,848)</td>
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American Association of Anatomists
Journal Trust Fund

1999 Account Snapshot

Account #733-04299

Beginning value
Funds Added
Total
Total account value as of

Account #733-04299

Beginning value
Funds Added
Total
Total account value as of

Total Income & Appreciation for 1999
Time-Weighted Annual Return for 1999
Time-Weighted Annual Return for 1998

1st Quarter 2000

Account #733-04299

Beginning Value
Total account value as of
Total Income & Appreciation

Time-Weighted Annual Return

Year-to-date

Asset Allocation Mix

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<th>January 1999</th>
<th>March 2, 2000</th>
<th>April 12, 2000</th>
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<tr>
<td>Cash</td>
<td>32%</td>
<td>31%</td>
<td>30%</td>
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<tr>
<td>Equity</td>
<td>44%</td>
<td>45%</td>
<td>47%</td>
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<tr>
<td>Fixed Income</td>
<td>24%</td>
<td>24%</td>
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2000 New Regular Members

Elected on April 17, 2000

Hiroshi Abe - Akita University School of Medicine
Chike Anibeze, Ph.D. - Abia State University College of Medicine
Larry Arsenault, Ph.D. - McMaster University
Kah Kay Au, MBBS - Nanyang Polytechnic School of Health Science
Christopher P. Austin, M.D. - Merck Research Labs
Thierry R. Bacro, Ph.D. - Medical University of South Carolina
Sat Bhattacharya, Ph.D. - Memorial Sloan-Kettering Cancer Center
Wade Bushman, M.D., Ph.D. - Northwestern University Medical School
Emma Lou Cardell – University of Cincinnati Medical College
Amerigo E. Carnazzola, Ph.D. – Libertyville, Illinois
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Barbara K. Freeman, Ph.D. - Case Western Reserve University School of Medicine
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Guillermo H. Grazioti - Buenos Aires University Faculty of Veterinary Science
Hamid Grima, M.D., Ph.D. - Charles University - First Faculty of Medicine
Wade Alan Grow, Ph.D. - Eastern Michigan University
Mary Margaret Herman, M.D. - NIMH/NIH
Julie H. Hill, Ph.D. - Tulane University
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John M. Hutson, M.D. - Royal Children’s Hospital Research Institute
Samir N. Ibrahim, Ph.D. - Ain Shams University Faculty of Medicine
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Jules A. Kieser, Ph.D. - Otago University
Ho D. Kim, M.D., Ph.D. – Seoul, Korea
Barba Maulana Koroma, Ph.D. - George Washington University Medical Center
Beverley Kramer, Ph.D. – University of Witwatersrand Faculty of Health Science
Satyendra Kumar, Ph.D. - Delhi University
Joseph C. LaMana, Ph.D. - Case Western University School of Medicine
Won Bok Lee, Ph.D. - Chung Ang University College of Medicine
Roberto Lopez - San Juan Bautista School of Medicine
Vir Bala Manhas, M.D. - All India Institute of Medical Science
Sandy Marks, Ph.D. – University of Massachusetts Medical Center
Frederic Martini, Ph.D. – University of Hawaii at Manoa, FHM Inc
Joseph P. Mbiene, Ph.D. - Baylor College of Dentistry
Thomas O. McCracken - Visible Productions LLC
Jamal M. Merei, M.D. – Suweileh, Jordan
Jose R. Merida-Velasco, - University Complutense De Madrid
Adam J. Miodonski, Ph.D., M.D. - Jagiellonian University College of Medicine
Genaro Morales Parra, M.D. - University De Manizales - Univeristy Catolica De Manizales
Oscar Hernan Moscoso Ariza, M.D. - University Autonoma De Manizales - University De Caldas
Kerby C. Oberg, Ph.D., M.D. - Loma Linda University
Reinhard Pabst, M.D. - Medical School of Hannover
Lance Eric Paulman, Ph.D. – Univeristy of South Carolina Medical School
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Dewan Saiful Raja, M.D. - Meharry Medical College
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Elected on April 17, 2000

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Albert E. Ayoub - West Virginia University
Armand L. Balboni - Mount Sinai School of Medicine
Charles D. Bishop, PhD - Baylor College of Dentistry
Doug Broadfield - Mount Sinai School of Medicine
Karina P. Carvalho - State University Rio De Janeiro
Joshua E. Ceja - IVCC
Li-Jung Chang – University of Louisville
Shuang Chen, MD – University of Mississippi Medical Center
Gang Cheng, MD, PhD - Medical University of South Carolina
April R. Collins - Tulane University School of Medicine
David M.L. Cooper – University of Saskatchewan
Matthew Todd Crill – Indianapolis, Indiana
Attila Csordas, MD - Rutgers University
Jun Dai - Tulane Medical School
Jami L. Dantzker - The Salk Institute
Khoshyar Dashtipour, MD – University of California at Irvine College of Medicine
Scott F. Davis - Louisiana State University Health Science Center
Fiona M. D’Souza - Tulane University
Amelia J. Eisch, PhD - Yale University
Mary Elizabeth Filon - Case Western Reserve University
Rebecca E. Fisher - Yale University
Michael A. Floissac - Texas A&M University - Corpus Christi
Edward A. Freeman – University of South Carolina School of Medicine
Craig Goodmurphy – University of St. George’s Medical School
Xiaochuan Guo – University of Alabama at Birmingham
Julian A. Gutman – University of British Columbia
Lei Huang - Tufts University
Dacia I. Hunton – University of Alabama at Birmingham
Jennifer M. Ichida - Vanderbilt University
Nneka I. Ikediobi - Mayo Medical School
Pei Kang - Baylor College of Dentistry
David Erik Kern - Baylor College of Dentistry
Todd L. Kiefer - Tulane University School of Medicine
Richard J. Ko - Midwestern University College of Medicine
Chuan-Ming Li, PhD, MD – University of Alabama Birmingham School of Medicine
Victor S. Lopes - State University of Rio De Janeiro
Jennifer R. Lussier - UMDNJ - New Jersey Medical School
Christine A. Martin - Chagrin Falls, Ohio
Maria A. McCarthy - New York University Medical School
Harris E. McFerrin – University of Alabama at Birmingham
Stephen E. Mercer – University of Texas at Arlington
Ryan J. Monti - UCLA
Tara L. Moore - Boston University School of Medicine
Glenn E. Morrison - UCLA
David J. Mulholland - Jack Bell Research
Sang-Soep Nahm, DVM - Texas A&M University College of Veterinary Medicine
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Vipul V. Parekh – University of Louisville
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Bruce A. Rasmussen - George Mason University
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Ralf Sporle, PhD - Institut Pasteur
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Ying-Yi Xiao - Oregon State University
Shahriar S. Yagoubi - UCLA
Yumin Yuan - Tulane University School of Medicine
Michael M. Zeineh - UCLA School of Medicine
Mark Zervas - Albert Einstein College of Medicine
Dahua Zhang - Indiana University School of Medicine
Wei Zheng, MD – University of Iowa
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Ludwig G. Browman, Ph.D.       Kazuo Ogawa, M.D., Ph.D.
Archibald Ray Buchanan, M.D.   Dennis O. Overman, Ph.D.
Andreas C. Charalambous, Ph.D. Diane Daly Ralston, Ph.D.
Natalie Connors, Ph.D.         Lawrence Einar Scheving, Ph.D.
Fidel Cuajunco, Ph.D.          Karmen L. Schmidt, Ph.D.
Eduardo D.P. De Robertis, Ph.D. Harry E. Settles, Ph.D.
Irma Eglitis, M.D.             Morris Smithberg, Ph.D.
Nicholas A. Halasz, M.D.       John Howard Van Dyke, Ph.D.
Viktor Hamburger, Ph.D.        Arturs Vitums, Ph.D.
John Howard Haring, Ph.D.      Mary C. Weitzman, Ph.D.
Eugene Harold Horn, Ph.D.
American Association of Anatomists

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1987-1988 Henry J. Ralston, III
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1989-1990 Jerome Sutin
1990-1991 Karen Hitchcock
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Joseph M. Yoffey, DSc, M.D., FRCS (The Hebrew University)
### R. R. Bensley Award Recipients

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### Charles Judson Herrick Award Recipients

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### Jan Langman Award Recipients

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### Dissertation Award Recipients

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### Basmajian/Williams and Wilkins Award Recipients

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**HENRY GRAY LAUREATES**

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BY-LAWS
OF
AMERICAN ASSOCIATION OF ANATOMISTS, INC.

PREAMBLE

It is hereby declared that the By-Laws of the American Association of Anatomists, Inc., contained herein can be referred to by the members as the Constitution of the American Association of Anatomists, Inc. The name of the Association shall be the “American Association of Anatomists, Inc.”, hereinafter called “the Association”. The purpose of the Association shall be the advancement of the anatomical sciences.

ARTICLE I

OFFICES

The New York office of the Association shall be located at such place in the City of New York, State of New York as the Board of Directors determine. The Association may also have other offices at such other places both within and without the State of New York as the Board of Directors may from time to time determine or as the business of the Association may require.

ARTICLE II

MEMBERS

Section 1. Membership. Membership shall be open to all persons interested in the purposes of the Association. The members and the Board of Directors may establish such other criteria for membership, including a schedule of dues, as they deem appropriate.

Section 2. Classes of Members. The Association shall include regular members, regular members emeritus, student or postdoctoral-fellow members, honorary members, and sustaining associate members. Only dues paying members can hold office in the Association; however, student and post-doctoral fellow members are eligible only for seats on the board of directors. Only regular members, regular members emeritus, student or postdoctoral-fellow members and honorary members may vote. Members who have not paid their dues for the current calendar year will be classified as inactive and will not receive mailings to the membership and cannot vote.

(a) Regular Members. Candidates for regular membership must be persons engaged in the investigation of anatomical or cognate sciences, must hold an advanced degree or experience, and should be endorsed by two (2) members of the Association.

(b) Regular Members Emeritus. A member who has paid dues for the previous ten (10) years and who has attained retirement status at his/her institution, may inform the Secretary-Treasurer of that fact in writing, and will be awarded the status of regular member emeritus and will have the same privileges as a regular member except he/she will not receive the journals gratis.

(c) Student or Postdoctoral-Fellow Members. To retain student or postdoctoral-fellow status, such member must obtain his/her advisor’s signature when paying dues each year. Such members in good standing may submit abstracts for presentation at the Annual Meeting of the Association and will receive all mailings sent to regular members as well as special mailings.
Honoraries Members. Honorary members who have distinguished themselves in anatomical or cognate research or in supporting the mission of the Association may be elected by the membership.

Sustaining Associate Members. Any corporation or institution interested in anatomical sciences, and in affording support to the Association, may become a Sustaining Associate Member upon invitation of the Board of Directors. The representatives of Sustaining Associate Members, unless they also qualify as members, shall not be entitled to vote, hold office or endorse candidates for membership in the Association.

Section 3. Application for Membership.

(a) Regular Membership. The candidate must 1) have a clearly demonstrated interest in the anatomical or cognate sciences based on his/her professional activities or, 2) have one (1) substantive paper in the anatomical or cognate sciences as first author or, 3) have been chiefly responsible for at least one (1) of several collaborative papers on anatomical or cognate subjects. Such papers must have appeared in print before the meeting at which his/her name is to be considered. Those candidates approved by the Board of Directors must first be affirmed by a two-thirds vote of the members present in person or by proxy at the Annual Business Meeting of the Association.

(b) Honorary Membership. Nominations by the Honorary Membership Committee are presented to the Board of Directors. Approval must be unanimous, and nominations with reasons for recommendation shall be presented to the members present at the Annual Business Meeting of the Association, a three-fourths vote of members present in person or by proxy and voting being necessary for election.

(c) Student or Postdoctoral-Fellow Membership. Student or postdoctoral fellows may be nominated for membership in the Association by a regular member who testifies in writing that the nominee is actively engaged in research on anatomical or related topics, or shows other evidence of strong commitment to a professional career in anatomy or cognate sciences. The candidate for such membership must be endorsed by his/her advisor or sponsor, who may be counted as the nominator if he/she is a regular member.

Section 4. Meetings and Voting.

(a) Meetings. The Annual Meeting of the Association’s members shall be held at the place, time, and date, as may be fixed by the Board of Directors, or, if not so fixed, as may be determined by the President. Special meetings shall be held whenever called by the Board of Directors, the President or ten (10) percent of the membership. Rulings shall be in accordance with Roberts Rules of Order.

(b) Notice of Membership Meetings. Written notice of the place, date, and hour of any meeting of the members shall be given to each member entitled to vote at such meeting not less than ten (10) days nor more than sixty (60) days before the date of the meeting. Such notice shall be deemed to have been given when it is deposited in the United States mail. Notice may be by facsimile transmission, telegraph, telex, courier service, electronic mail or hand delivery. Notice of special meetings shall indicate the purpose for which they are called. Notice of meetings need not be given to a member who attends without protesting lack of notice before or at the meeting’s commencement.

(c) Quorum, Adjournment of Meetings. At all meetings of the members, including the Annual Business Meeting of the Association, at least one-hundred (100) members or one-tenth of the membership, whichever is lesser, shall be present in person or by proxy to constitute a quorum for the transaction of business. At any adjourned meeting for which a quorum was present at the original meeting, any business may be transacted which might have been transacted at the original meeting. If the adjournment is for more than thirty days, notice of the adjourned meeting shall be given.

(d) Voting. At any meeting of the members, each voting member present in person or by proxy who has paid current dues, if any, shall be entitled to one vote. Upon demand by any member, any vote for directors or any question before the meeting shall be by ballot.

(e) Proxies. Voting by proxy shall be permitted.
(f) **Action by the Members.** Except as otherwise provided by law or by these By-Laws, any corporate action authorized by a majority of the votes cast at a meeting of the members shall be an act of the members, provided that the favorable votes be at least equal to the quorum of the members as defined in subsection (c) of this Section 4 (hereinafter termed “Action by the Members”).

Section 5. **Dues and Membership.**

(a) **Dues.** The dues of the Association shall be determined by the Board of Directors and ratified at each Annual Meeting of the Association. Dues are payable on or before January 1 of a calendar year. Individuals who have not paid by January 1, may be placed in an inactive status. The Association shall establish a grace period during which a member who is in arrears on dues shall be put on “inactive status” and may continue to receive certain benefits. At the end of this grace period, the member will be put on “inactive status” unless the dues have been waived under other provisions of these By-Laws. Payment of dues at any time during the calendar year will reinstate the member to active status who will then receive all mailings for the calendar year. Honorary members do not pay dues; however, they have the same privileges as regular members. A regular member emeritus, while retired, will no longer be required to pay dues but must pay to receive the journals.

(b) **Term of Membership.** Membership in the Association shall be for the calendar year for which the membership dues have been paid.

(c) **Renewal of Regular and Student or Postdoctoral-Fellow Membership.** Such membership in the Association may be renewed annually by the payment when due of the appropriate amount of membership dues.

**ARTICLE III**

**BOARD OF DIRECTORS**

Section 1. **Powers and Number.**

(a) **Powers.** The Board of Directors shall have general power to control and manage the affairs and property of the Association in accordance with the purposes and limitations set forth in the Certificate of Incorporation. The Board of Directors shall consist of fourteen (14) individual voting members elected by the membership of the Association, six (6) of whom are officers, and eight (8) councillors elected as provided hereafter in Article III, Section 2(b), two of whom shall be student or postdoctoral-fellow members.

(b) **Number.** The number of directors may be fixed from time to time by resolution of the Board of Directors, but in no event may there be less than three (3) directors, provided that any such resolution shall require a majority vote of the entire Board of Directors.

Section 2. **Election and Term.**

(a) **Members and Program Chairs as Directors.** The fourteen (14) individual directors shall be elected by Action by the Members and each director shall hold office until his/her term ends at the Annual Meeting of the Association or at the director’s earlier death, resignation or removal.

(b) **Councilors as Directors.** Notwithstanding the foregoing, two (2) of the six (6) non-student/postdoctoral councilors who shall serve on the Board of Directors shall be elected annually to serve three (3) Terms (as defined in Article IV, Section 1 below), thereby creating three (3) classes of councilor-directors. One (1) of the two (2) student or postdoctoral-fellow councilors shall be elected annually to serve two (2) terms (as defined in Article IV Section 1 below). Each director so elected shall serve until the expiration of such director’s respective term or until the election or appointment of such director’s successor, or until such director’s earlier death, resignation or removal.
Section 3. **Vacancies and Newly Created Directorships.** Newly created directorships resulting from an increase in the authorized number of directors and vacancies occurring in the Board of Directors for any cause, including any such vacancy occurring by reason of the removal of any director from office with or without cause, may be filled by a candidate nominated by the President of the Association and ratified by the vote of a majority of the directors then in office. Each director so elected shall serve until the end of the next Annual Meeting of the Association or until the election or appointment of such director’s successor, or until such director’s earlier death, resignation, or removal.

Section 4. **Removal.** A director may be removed with or without cause by Action by the Members. Provided there is a quorum of not less than a majority of all directors present, a director may be removed for cause by the vote of two-thirds of the Board of Directors present at the meeting at which such action is taken.

Section 5. **Resignations.** Any director may resign at any time by giving written notice to the President and Board of Directors. Such resignation shall take effect at the time specified therein or, if no time is specified, at the time of acceptance thereof as determined by the President or Board of Directors.

Section 6. **Meetings.** The Board of Directors will meet at the Annual Meeting of the Association and at least one (1) additional time each year, approximately six (6) months apart and at such time and place as may be fixed by the Board of Directors or as may be specified in a notice of meeting. The Board of Directors may meet at other times and places at the discretion of the President or a quorum of the Board, either in person or otherwise, including by conference telephone in accordance with Article III, Section 15.

Section 7. **Notice of Meetings.** Notice need not be given of regular meetings of the Board if the time and place of such meetings are fixed by the Board of Directors. Notice of each special meeting of the Board of Directors must be given to each director not less than two (2) weeks before such meeting. Notice may be in writing and sent by mail, addressed to such director at his or her address as it appears on the records of the Association. Such notice shall be deemed to have been given when it is deposited in the United States mail. Notice may also be by telephone or sent by facsimile transmission, telegraph, telex, courier service, electronic mail or hand delivery. Notice of a special meeting need not be given to a director who submits a signed waiver of notice before or at the meeting’s commencement.

Section 8. **Place and Time of Meetings.** Meetings of the Board of Directors shall be held at the location, within or without the State of New York, which is fixed by the Board of Directors or, in the case of a special meeting, by the person or persons calling the special meeting.

Section 9. **Quorum.** At each meeting of the Board ten (10) directors shall constitute a quorum for the transaction of business, so long as such number constitutes at least one-third of the directors constituting the entire Board of Directors. If a quorum is not present at any meeting of the Board of Directors, a majority of the directors present may adjourn the meeting without notice other than an announcement at the meeting, until such a quorum is present.

Section 10. **Manner of Acting.** The vote of a majority of the directors present at any meeting at which there is a quorum shall be the act of the Board of Directors.

Section 11. **Conflicts Policy.** Any potential conflict of interest which could result in a direct or indirect financial or personal benefit to a Director, officer or staff member must be disclosed in good faith or known to the Board of Directors or committee authorizing a contract or other transaction. The interested individual may participate in the information-gathering stage of the Board of Directors’ or committee’s discussion, but shall retire from the room in which the Board of Directors or a committee thereof is meeting and shall not participate in the final deliberation or decision regarding such contract or other transaction. Such interested individual may not vote on such contract or other transaction.

Interested Directors may be counted in determining the presence of a quorum at the meeting of the Board or of a committee which authorizes such contracts or other transactions.

The minutes of the meeting of the Board of Directors or committee thereof shall reflect (a) that the conflict of interest was disclosed, (b) that the interested Director, officer or staff member was not present during the final discussion or vote of the Board of Directors or committee thereof and (c) that the interested individual did not vote.
All questions as to whether a conflict of interest exists shall be resolved by a vote of the Board of Directors in which the interested individual may not vote.

A conflict of interest disclosure statement shall be furnished annually to the Board by each Director, officer and staff member. The disclosure statements shall be reviewed annually by the Board of Directors or by a committee thereof.

In connection with all actions taken by the Board of Directors with respect to any contract or transaction between the Association and one or more of its directors or officers, or between the Association and any other corporation, firm, association, or other entity in which one or more of the directors or officers of the Association is a director or officer or has a substantial financial interest, affiliation, or other significant relationship, each such interested director or officer of the Association shall:

(a) disclose to the Board of Directors the material facts as to such director’s or officer’s interest in such contract or transaction and as to any such common directorships, offices, or significant financial interest, affiliation, or other significant relationship, which disclosure shall be duly recorded in the minutes or resolutions relating to such actions, and

(b) abstain from voting on any such contract or transaction.

In determining whether to approve such contract or transaction, disinterested directors shall take into account the restrictions regarding either self-dealing under section 4941 of the Internal Revenue Code of 1986, as amended (the “Code”), in the case of an organization classified as a Private Foundation, or excess benefit transactions under section 4958 of the Code in the case of an organization classified as a Public Charity.

Section 12. Organization. At each meeting of the Board of Directors, the President, or, in the President’s absence, the President-Elect or in the absence of both a person chosen by the directors present, shall act as president. The Secretary-Treasurer shall act as secretary of each meeting of the Board of Directors. In the absence of the Secretary-Treasurer, the president of the meeting shall appoint a secretary of the meeting.

Section 13. Committees of Directors.

The Board of Directors may, by resolution adopted by a majority of the entire Board, designate one or more Standing Committees, to have and exercise such power and authority as the Board of Directors shall specify and as permitted by law. Each Standing Committee shall be appointed by the President, approved by the Board of Directors and ratified by Action of the Members.

The Standing Committees include:

(a) Executive Committee. The officers of the Association shall comprise an Executive Committee of the Board of Directors and shall have the authority to take actions for the Board of Directors between meetings. Four (4) officers shall constitute a quorum of the Executive Committee. Such actions by the Executive Committee are to be reported at the next meeting of the Board of Directors. The Executive Committee of the Board of Directors may meet separately from the Board of Directors either in person or otherwise, including by conference telephone in accordance with Article III, Section 15 hereof.

(b) Finance Committee. The Finance Committee shall consist of seven (7) people: the Secretary-Treasurer, who shall serve as chair, the President, the Past President, the President-Elect, the chair of the Journal Trust Fund Committee, one (1) program chair, and the Executive Director, who shall serve as a non-voting member. The Committee shall be responsible for oversight of the financial structure of the Association and shall make financial policy recommendations to the Board of Directors. The Committee’s activities shall include review of financial management policies, coordinating the preparation of a budget, and the audit, development, and investment policy.
(c) **Advisory Committee of Young Anatomists.**

(d) **Anatomical Terminology Committee.**

(e) **Archival Committee**

(f) **Basmajian/Williams and Wilkins Award Committee.**

(g) **Charles Judson Herrick Award Committee.**

(h) **Educational Affairs Committee.**

(i) **Henry Gray and Ladman Awards Committee.**

(j) **Honorary Membership Committee.**

(k) **Journal Trust Fund Committee.**

(l) **Membership Committee.**

(m) **Public Affairs Committee.**

(n) **R. R. Bensley Award Committee.**

**Ad Hoc Committees of the Association.** When deemed necessary, the President, with the consent of the Board of Directors, may establish Ad Hoc committees of the Association to serve for fixed periods of time. Ad Hoc committees shall have only the powers specifically delegated to them by the Board.

**Operation of Committees.** At each meeting of a committee, a majority of the voting members of the committee shall be present to constitute a quorum. The vote of a majority of the members of a committee present at any meeting at which there is a quorum shall be the act of the committee.

**Representatives and Delegates to Affiliated Groups.** The Board of Directors shall appoint representatives or delegates to external bodies with which the Association affiliates. The Board of Directors shall have the power to establish and disestablish relationships with various scientific and governmental groups.

**Section 14. Meeting by Conference Telephone.** Any one or more members of the Board of Directors or any committee thereof may participate in a meeting of the Board of Directors or such committee by means of a conference telephone or similar communications equipment allowing all persons participating in the meeting to speak and hear each other at the same time. Participation by such means shall constitute presence in person at a meeting.

**Section 15. Action Without a Meeting.** Any action required or permitted to be taken by the Board of Directors or any committee thereof may be taken without a meeting if all members of the Board of Directors or such committee consent in writing to the adoption of a resolution authorizing the action. The resolution and the written consents thereto by the members of the Board of Directors or such committee shall be filed with the minutes of the proceedings of the Board of Directors or such committee.

**Section 16. Scientific Meetings.** The time and place of the Association's Scientific Meetings shall be determined by the Board of Directors.

**Section 17. Compensation of Directors.** The Association shall not pay any compensation to directors for services rendered to the Association, except that directors may be reimbursed for reasonable expenses incurred in the performance of their duties to the Association.
ARTICLE IV
OFFICERS AND COUNCILORS

Section 1. Officers, Term of Office and Qualifications. The officers of the Association shall consist of a President, a Secretary-Treasurer, two (2) Program Chairs, a President-Elect, and a President-Emeritus. The period of time from the end of the Annual Meeting of the Association until the end of the next Annual Meeting of the Association is hereby defined as a “Term.” The President shall serve on the Board of Directors for two (2) Terms as President-Elect and shall continue after his/her two-term active Presidency as a member of the Board of Directors for two (2) Terms with the title President-Emeritus. This maintains a degree of leadership continuity for the Association. If the President becomes incapacitated, the President-Elect shall complete the President’s term and then serve his/her own term. If the President-Elect becomes incapacitated his/her successor shall be elected at the next Annual Meeting. The Secretary-Treasurer and Program Chairs shall serve on the Board of Directors four (4) Terms and can run unopposed for an additional four (4) terms with the approval of the Board of Directors. The Program Chairs serve staggered terms. All officers shall be subject to the supervision and direction of the Board of Directors.

Section 2. Election.

(a) Nominating Committee. At each Annual Meeting preceding an election, the President shall appoint a Nominating committee of five (5) members at least one (1) of whom shall be a past member of the Board of Directors. The committee shall be approved by the Board of Directors and ratified by Action of the Members at the Annual Business meeting of the Association. This committee shall make its nominations to the Secretary-Treasurer for members of the Board of Directors who are to be elected to fill expiring terms, to serve beginning at the end of the next Annual Meeting of the Association, not less than four (4) months before the next Annual Meeting of the Association. The Nominating Committee shall submit two (2) names for such vacancy. So far as possible, the Nominating Committee shall take into consideration the geographical distribution of the members of the Association when making their recommendations for membership on the Board of Directors. Each nominee must have agreed to serve if elected.

(b) Election Procedures. A printed ballot bearing all names submitted by the Nominating Committee will be prepared with space provided for write-in candidates for each elected position. This ballot is to be mailed to all members at least three (3) months prior to the next Annual Meeting of the Association. Each member wishing to vote shall return the marked ballot to the National Office postmarked not later than one (1) month prior to the Annual Meeting of the Association. The ballots will be tabulated and certified. Any candidate receiving a plurality of votes shall be elected at the Annual Business Meeting of the Association. In case of a tie for any elected position, the two (2) candidates with the most votes shall be voted on at the Annual Business Meeting of the Association; the one receiving the greater number of votes shall be declared elected.

Section 3. Removal. Any officer elected by the members or appointed by the Board of Directors to fill a vacancy may be removed by the vote of a majority of the Board of Directors, either with or without cause, at any meeting of the Board at which a majority of the directors is present.

Section 4. Resignations. Any officer may resign at any time by giving written notice to the President.

Section 5. Vacancies. A vacancy in any office arising from any cause may be filled for the unexpired portion of the term in the manner prescribed in Article III, Section 3 of these By-Laws, substituting “officer” for “director”.

Section 6. Duties of Officers and Councilors. An overall goal of all officers and councillors is to promote the Association and to encourage membership and participation in the Association’s activities.

Section 7. President. The President of the Association is a voting member of the Board of Directors. He/she is the principal spokesperson for the Association and represents the Association generally to Congress, the Executive Branch, the Media and to the lay public. The President chairs the Board of Directors Meetings, the Annual Business Meeting of the Association and the Past-President’s Breakfast. The President also has administrative oversight of any Scientific Meeting of the Association and supervises the National Office and the Executive Director. An additional responsibility of the President is the making of appointments to Association committees (other than the Board
of Directors), to the Federation of American Societies of Experimental Biology (FASEB) Board of Directors, and to other FASEB committees. He/she serves on the Finance Committee. The President is the responsible officer of the Association. In the event of death, incapacity or resignation of the President, the President-Elect will assume the office and responsibilities of the President.

Section 8. **President-Emeritus.** The President-Emeritus of the Association is a voting member of the Board of Directors. The President-Emeritus will assume any special responsibility delegated to him/her by the President. The President-Emeritus chairs the Membership Committee, the Honorary Membership, and the Henry Gray and Ladman Awards Committees.

Section 9. **President-Elect.** The President-Elect of the Association is a voting member of the Board of Directors. The President-Elect serves on the Finance Committee. It is the responsibility of the President-Elect to educate him/herself in the relationship of the Association to FASEB in preparation for assuming the office of President.

Section 10. **Secretary-Treasurer.** The Secretary Treasurer of the Association is ultimately responsible for: Financial oversight of the operational budget, Journal Trust Fund, 2nd Century Fund, and Bensley Trust Fund; Chairing of the Finance Committee; serving on FASEB Finance Committee; short and long range planning and development and presentation of Annual Budget to Executive Committee and members at the Annual Business Meeting; contracts regarding journals/publications; policy for payments (signature authority and dollar limits) for the Executive Director consistent with the budgets developed and approved by the Finance Committee and Board of Directors; policy for financial reports from FASEB and National Office; minutes and Association’s archive; major contact for academic inquiries regarding AAA; liaison with other professional groups (e.g., American Association of Clinical Anatomists, Cajal Club, Association of Anatomy, Cell Biology and Neurobiology Chairpersons, and international societies); advocacy for AAA and discipline in teaching, research, and public service; being a consultant to journals/editorial boards; other duties as determined by the Board of Directors.

Section 11. **Program Chairs.** The Program Chairs of the Association are responsible for the scientific aspects of the Association’s Scientific Meetings and oversight for the meeting budget. Thus, all decisions regarding the Call for Abstracts, topic categories, symposia, minisymposia, poster sessions, and programming and sorting of the Association’s scientific abstracts and other scientific presentations, ultimately reside within the authority of the Program Chairs. The Program Chairs make decisions regarding the Annual Meeting in consultation with the President, the Executive Director and the Chair of the Educational Affairs Committee. They are members of the Educational Affairs Committee.

Section 12. **Councilors.** Councilors are responsible for assuming any assignments from the President.

Section 13. **Replacement of Officers.** In the event of death, incapacity, or resignation of officers other than the president, the Board of Directors will appoint a replacement to serve until an election is held.

**ARTICLE V**

**STAFF AND NATIONAL OFFICE**

Section 1. **National Office.** The Association shall have a National Office housing an Executive Director and staff. The National Office shall be concerned with the day to day activities of the Association.

Section 2. **Executive Director.** The Executive Director of the Association shall be a salaried employee hired by the Board of Directors and is responsible for: Maintenance of National Office, including development and management of its budget and staff; oversight of day-to-day FASEB accounting function for AAA, including management of accounts payable and accounts receivable at National Office with timely reports to the Secretary-Treasurer, as requested; maintaining database with timely updates to the Secretary-Treasurer; oversight of Association’s programs, including but not limited to membership, communications, public affairs, meetings, marketing, elections and awards; serving ex officio on Standing Committees; assisting Secretary-Treasurer in AAA budget development; assisting Secretary-Treasurer with preparation of minutes of meetings and maintenance of Associations’s archive; other duties as determined by the Board of Directors.
Section 3. **Additional Personnel.** The Executive Director may employ such other staff personnel with such titles as the Executive Director shall determine according to available administrative funds and needs of the Association.

Section 4. **Compensation.** The Board of Directors shall establish the rate of compensation and benefits for the Executive Director of the Association.

**ARTICLE VI**

**EXECUTION OF INSTRUMENTS**

Section 1. **Contracts and Instruments.** The Board of Directors, subject to the provisions of Article III, Section 1, may authorize any officer or officers or agent or agents of the Association to enter into any contract or to execute and deliver any instrument in the name of and on behalf of the Association. Such authority may be general or may be confined to specific instances.

Section 2. **Deposits.** Funds of the Association may be deposited from time to time to the credit of the Association with the depositories that are selected by the Secretary-Treasurer and approved by the Board of Directors.

Section 3. **Orders for the Payment of Money and Endorsements for Deposit.**

(a) All checks, drafts or other orders for the payment of money, notes, or acceptances issued in the name of the Association shall be signed by the officer or officers or agent or agents of the Association authorized, and in the manner determined by resolution of the Board of Directors.

(b) Endorsements for deposit to the credit of the Association in any of its authorized depositories may be made, without countersignature, by any officer of the Association or may be made by hand-stamped impression in the name of the Association, unless otherwise provided by resolution of the Board of Directors.

Section 4. **Sale or Transfer of Securities.** Stock certificates, notes, bonds, or other securities held or owned by the Association may be sold, transferred, or otherwise disposed of when endorsed for transfer by the officer or officers or agent or agents of the Association authorized, and in the manner determined by resolution of the Board of Directors.

Section 5. **Bonding.** All officers and agents having custody or control of any funds of the Association shall be bonded for an amount fixed by the Board of Directors.

**ARTICLE VII**

**JOURNALS OF THE ASSOCIATION AND THE ANATOMICAL JOURNAL TRUST FUND**

Section 1. The Secretary-Treasurer shall hold, on behalf of the Association, the assets of the Anatomical Journal Trust Fund. It is the intention to hold the corpus of this Fund intact as a safeguard against possible emergencies. The income shall be employed with due consideration given to the Association’s status as an organization classified under section 501(c)(3) of the Code.

Section 2. The President shall nominate, for ratification by the Board of Directors and members of the Association, a Committee on the Anatomical Journal Trust Fund, consisting of three (3) members, with terms of appointment so arranged that one (1) member shall retire at each Annual Meeting of the Association, subject to reappointment if the membership approves. The Secretary-Treasurer shall serve as an ex-officio member of this Committee.

Section 3. The Board of Directors shall appoint Editors of the Journals owned or sponsored by the Association, in consultation with the publishers of the Journals. The editors shall report to the Board of Directors.
ARTICLE VIII

INDEMNIFICATION

To the fullest extent permitted by the laws of the State of New York:

Section 1. The Association shall indemnify any person (and his/her heirs, executors, or administrators) who was or is a party or is threatened to be made a party to any threatened, pending, or completed action, suit, or proceeding (brought in the right of the Association or otherwise), whether civil, criminal, administrative, or investigative, and whether formal or informal, including appeals, by reason of the fact that he is or was a director, officer, employee, or agent of the Association, or is or was serving at the request of the Association as a director, officer, partner, trustee, employee, or agent of another corporation, partnership, joint venture, trust, or other enterprise, for and against all expenses (including attorneys’ fees), judgments, fines, and amounts paid in settlement actually and reasonably incurred by such person or such heirs, executors, or administrators in connection with such action, suit, or proceeding, including appeals.

Section 2. The Association shall pay expenses as incurred in defending any action, suit, or proceeding described in subsection (1) of this Article in advance of the final disposition of such action, suit, or proceeding, including appeals.

Section 3. The Association may purchase and maintain insurance on behalf of any person described in subsection (1) of this Article against any liability asserted against him, whether or not the Association would have the power to indemnify him against such liability under the provisions of this Article or otherwise.

Section 4. The provisions of this Article shall be applicable to all actions, claims, suits, or proceedings made or commenced after the adoption hereof, whether arising from acts or omissions to act occurring before or after its adoption. The provisions of this Article shall be deemed to be a contract between the Association and each director, officer, employee, or agent who serves in such capacity at any time while this Article and the relevant provisions of the laws of the State of New York and other applicable law, if any, are in effect, and any repeal or modification thereof shall not affect any rights or obligations then existing with respect to any state of facts or any action, suit, or proceeding then or theretofore existing, or any action, suit, or proceeding thereafter brought or threatened based in whole or in part on any such state of facts. If any provision of this Article shall be found to be invalid or limited in application by reason of any law or regulation, it shall not affect the validity of the remaining provisions hereof. The rights of indemnification provided in this Article shall neither be exclusive of, nor be deemed in limitation of, any rights to which any such officer, director, employee, or agent may otherwise be entitled or permitted by contract, the Certificate of Incorporation, vote of directors, or otherwise, or as a matter of law, both as to actions in his official capacity and actions in any other capacity while holding such office, it being the policy of the Association that indemnification of the specified individuals shall be made to the fullest extent permitted by law.

Section 5. For purposes of this Article, references to “other enterprise” shall include employee benefit plans; references to “fines” shall include any excise taxes assessed on a person with respect to an employee benefit plan; and references to “serving at the request of the corporation” shall include any service as a director, officer, employee, or agent of the Association which imposes duties on, or involves services by, such director, officer, employee, or agent with respect to an employee benefit plan, its participants, or beneficiaries.

ARTICLE IX

GENERAL PROVISIONS

Section 1. Operational Year. The operational year for the Association shall start at the beginning of the calendar year; however, membership on the Board of Directors and other committees of the Association shall begin at the termination of the last day of the Annual Meeting of the Association. The Fiscal Year of the Association shall end on December 31.

Section 2. Seal. The corporate seal shall have inscribed thereon the name of the corporation, the year of its organization and the words ["Corporate Seal, Not-for-Profit, New York."] The seal may be used by causing it or a facsimile thereof to be impressed or affixed in any manner reproduced.
Section 3. **Books and Records.** The Association shall keep correct and complete books and records of accounts of the activities and transactions of the Association, including a minute book, which shall contain a copy of the Certificate of Incorporation, a copy of these By-Laws, and all minutes of meetings of the Board of Directors and committees thereof.

**ARTICLE X**

**AMENDMENTS BY MEMBERS AND/OR BOARD OF DIRECTORS**

Section 1. **Certificate.**

**Members.** As authorized under section 802 of the New York Not-for-Profit Corporation Law, the members may by Action by the Members authorize any amendment or change in the Certificate of Incorporation.

Section 2. **By-Laws.**

(a) **Members.** As authorized under Section 602 of the New York Not-for-Profit Corporation Law, the members may by Action by the Members authorize any amendment or change in the By-Laws. Any proposed changes in the By-Laws of the Association must be presented in writing to the Board of Directors at least six (6) months before an Annual Meeting of the Association. Due notice of such proposed changes shall be published in the Newsletter or otherwise sent to each member at least one (1) month in advance of the Meeting at which action is to be taken. Action by the Members is necessary to amend the By-laws at a meeting of the membership. In an emergency declared by the Board of Directors, the By-Laws may be modified without delay or advanced notice by mail ballot, only if seventy (70) percent of the members of the Association who return their ballots agree to the change, and if the Board of Directors agrees unanimously.

(b) **Board of Directors.** As authorized under Section 602 of the New York Not-for-Profit Corporation Law, the Board of Directors may amend or repeal these By-Laws at any meeting of the Board of Directors, at which a quorum is present, by a vote of two-thirds of the directors present or by unanimous written consent of the Board of Directors provided that the amendment is ratified by Action by the Members at the next annual meeting of the Association.