

JENNIFER LIPPINCOTT-SCHWARTZ

Cell Biology and Metabolism Branch
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PERSONAL DATA

Date of Birth	October 19, 1952; Manhattan, Kansas, USA
Citizenship	U.S.A.
Family	Married, 2 children

EDUCATION

Ph.D. in Biochemistry, 1986
The Johns Hopkins University, Baltimore, Maryland

M.S. in Biology, 1979
Stanford University, Palo Alto, California

B.A. (with Honours) in Psychology and Philosophy, 1974
Swarthmore College, Swarthmore, Pennsylvania

MAJOR RESEARCH INTERESTS

Intracellular protein trafficking and sorting; organelle biogenesis, dynamics and inheritance; membrane dynamics and the cytoskeleton; green fluorescent protein technologies; and super-resolution imaging.

RESEARCH AND PROFESSIONAL EXPERIENCE

2000-present	Tenured Investigator Chief, Section on Organelle Biology Cell Biology and Metabolism Branch, National Institute of Child Health and Human Development, National Institutes of Health, Bethesda, MD 20892
1992-2000	Tenure-Track Investigator Chief, Section on Organelle Biology Cell Biology and Metabolism Branch, National Institute of Child Health and Human Development, National Institutes of Health, Bethesda, MD 20892
1990-1992	Staff Fellow Cell Biology and Metabolism Branch, National Institute of Child Health and Human Development, National Institutes of Health, Bethesda, MD 20892

- 1986-1990 Postdoctoral Fellow in the Laboratory of Dr. Richard Klausner, Cell Biology and Metabolism Branch, National Institute of Child Health and Human Development, National Institutes of Health, Bethesda, MD. Area of Research: Protein degradation in the ER; Effects of brefeldin A on organelle structure and membrane traffic
- 1979-1986 Graduate Student in the Laboratory of Dr. Douglas Fambrough, Department of Biology, The Johns Hopkins University, Baltimore, MD. Area of Research: the plasma membrane-lysosome cycling pathway followed by LAMPs-lysosome membrane proteins.
- 1978-1979 Research Assistant, Laboratory of Dr. Phil Hanawalt, Stanford University, Palo Alto, CA. Area of Research: DNA repair mechanisms
- 1976-1978 Chemistry and Physics Instructor, Woodside Priory High School, Portola Valley, CA
- 1974-1975 Chemistry and Biology Instructor, Tigoi High School, Tigoi, Kenya

PROFESSIONAL AWARDS

- Pearse Prize, Royal Microscopy Society (2010)
 Elected to the Institute of Medicine of the National Academies, 2009
 Elected to the National Academy of Sciences, Biochemistry Section, 2008
 Elected AAAS Fellow, 2008, for "outstanding contributions to the field of fluorescent protein imaging, including the creation of photoactivable GFP and its use in new super-resolution imaging techniques"
 Elected Distinguished NIH Investigator, 2008
 National Institutes of Health Award of Merit, "For fundamental contributions to the understanding of how intracellular organelles are assembled and how proteins move within cells" (2003)
 The Feulgen Prize, Society of Histochemistry (2001)
 Keith Porter Fellow, awarded by K. R. Porter Foundation for Excellence in Cell Biology (1998)
 The Wellcome Visiting Professorship in the Basic Medical Sciences (1998)
 NIH Predoctoral Fellowship Award (1979-1981)
 Carnegie Institute of Washington Fellowship (1981-1985)
 Pharmacology Research Associate of the National Institute of General Medical Sciences (1986-1988)
 National Research Service Award (1988-1990)

HONARY LECTURESHIPS

- 2010 Lamport Lecture, Department of Physiology and Biophysics at the University of Washington, Seattle, WA
 The Fred Faye Lecture, University of Massachusetts, Worcester, MA (2010)
 The Friday Night Lecture, Marine Biology Laboratories, Woods Hole, MA (2010)
 Plenary Lecture, MICROSCIENCE 2010, London, UK
 Keynote Lecture, 10th International European Light Microscopy Meeting, EMBL, Heidelberg, Germany (2010)
 Keynote Lecture, Joint Keystone Symposium, Islet Biology /Diabetes (2010)

Keynote Lecture, Biochemistry and Cell Biology of ESCRTs in Health and Disease, Snowbird, UT (2010)
 Wellesley College Mayer Lecture (2010)
 The Martin Rodbell Lecture (2010) NIEHS, Research Triangle Park, NC
 The Weiner Memorial Lecture at NY Blood Center (2009)
 CRUK Lecture, British Society of Cell Biology (2009)
 The John Nordin Lecturer, University of Massachusetts, Amherst, MA (2009)
 The Irvin Isenberg Lecture, Marine Biological Laboratory, Woods Hole, MA (2009)
 The Kenneth F. Nairdorf Memorial Lecture, Columbia University, New York, NY (2008)
 Alma Howard Lecture, McGill University, Montreal, Canada (2008)
 The Anita Roberts Lecture, NIH, Bethesda, MD (2008)
 The Richard D. Berlin Lecture, University of Connecticut Health Center, Farmington, CN (2008)
 Keynote Address, "Leica Scientific Forum – Advances in Life Science", Heidelberg, Germany (2007)
 The Burroughs Mider Lecture, National Institutes of Health, Bethesda, MD (2007)
 Keynote Address, ASCB and European Cytoskeleton Forum, Dijon, France (2007)
 Theo Hofmann Lecture, University of Toronto, Toronto, Canada (2007)
 Keynote Address, Fifth Annual Cell and Developmental Biology retreat, Vanderbilt School of Medicine, Vanderbilt, TN (2007)
 The Mary Bartlett Bunge Distinguished Lecture, Miller School of Medicine, University of Miami, Miami, Florida (2007)
 Keynote Address, 7th Joint Meeting of The Histochemical Society and The Japan Society of Histochemistry and Cytochemistry, Hawaii (2006)
 Carl Zeiss Lecture, German Society of Cell Biology, Braunschweig, Germany (2006)
 Keynote Lecture, International Conference on Aquaporins, Genval, Belgium (2005)
 Leading Edge Lecturer, Children's Hospital, Harvard Medical School, Boston, MA (2004)
 Annual Science in Medicine Lecture, University of Washington, Seattle, WA (2004)
 The Charlton Lecture, Tufts-New England Medical Center, Boston, MA. (2004)
 The Murray Barr Lecture, The University of Western Ontario, Canada (2004)
 Keynote Address, Chesapeake Society of Microscopy, Bethesda, MD (2004)
 Keynote Address, Dynamic Microscopy, Wurzburg, Germany (2004)
 Keynote Address, University of Alabama, Department of Biology Annual Scientific Retreat, Birmingham, AL (2004)
 Cell Biology Frontiers Lecture, Case Western Reserve University, Ohio (2004)
 The Zeiss Lecture, The Royal Microscopy Society, Oxford, UK (2003)
 Keynote Address, Society of Experimental Biology, Glasgow, Scotland (2003)
 Helen Padykula Lecturer, Wellesley College, MA (2001)
 Society for Histochemistry's Feulgen Lecturer, Vienna, Austria (2000)
 NIH Director's Seminar, NIH, Bethesda, MD (1994)

BOOK and EDITORIAL DUTIES

Cell Biology, 2nd Edition (textbook), Co-author (other co-authors: Tom Pollard and William Earnshaw)
Cell, Editorial Board, 2008-present
Journal of Cell Science, Associate Editor, 2000-present
Current Protocols in Cell Biology, Wiley & Sons, Inc, Associate Editor, 1997-present
Molecular Biology of the Cell, Editorial Board, 2001-present
Molecular Biology of the Cell, Video Editor, 1998-present
Molecular Biology of the Cell, Cover Editor, 2001-present

Physiology, Editorial Board, 2003-present
Current Opinion in Cell Biology, Section Editor for “Membranes and Sorting”, 2001
Histochemistry and Cell Biology, Editorial Board, 2001-present
Traffic, Editorial Board, 1999-2004
Journal of Cell Science, Editorial Board, 1996-2000
Physiological Reviews, Editorial Board, 1993-1999
Integrative Biology, Editorial Board, 2010-present
Reviewer for: *Science*, *Nature*, *Cell*, *J. Cell Biol.*, *Nature Cell Biol.*, *J. Cell Sci.*, *PNAS*, *EMBO J.*, *J. Biol. Chem.*

PROFESSIONAL ACTIVITIES

EXTERNAL:

Howard Hughes Medical Institute Investigator Review Panelist, Bethesda, MD (2010)
Pioneer Award Interview Panelist, Bethesda, MD (2010)
President of AERES Site Visit Committee for Institute of Curie Department of Cell Biology, Paris, France, (2010)
STMC External Advisory Board, University of New Mexico, Albuquerque, NM (2010)
CPLC External Advisory Board, University of Illinois, Urbana, IL (2009-2010)
ASCB Advisory Board for Cell Image Library (2010)
EMBL Cell Biology and Biophysics Unit Review Panel, Heidelberg, Germany (2009)
Member New York Academy of Sciences (2009)
Scientific Advisory Board of the UC Santa Barbara KITP Program (2009-present)
Executive Board Biophysical Society (2007-2008)
Rosalind Franklin Society Founding Board (2007-present)
Program Committee for American Society of Cell Biology Annual Meeting (2006, 2007, 2008)
Nominating Committee for ASCB (2008, 2009)
Council of the Biophysics Society (2006-2008)
Program Committee for Biophysics Society (2008)
Cell Migration Consortium’s External Advisory Committee (2007-2008)
Workshop on NanoBiotechnology, Arlington, VA (2004)
National Institutes of Health/National Science Foundation Workshop on Nanotechnology, Washington, DC (2003)
Structural Biology Workshop, Department of Energy, Washington, DC (1999)
Council of the American Society for Cell Biology (1998-2000)
Chairman, ASCB Scientific Program Committee (1998)
Integrative Genomics Techniques Workshop, National Center for Research Resources (1998)
National Institute of General Medical Sciences Workshop: Future Directions in High Resolution Electron Microscopy (1998)
Local Arrangements Committee, American Society of Cell Biology (1995 and 1997)
Membership Committee, American Society of Cell Biology (1996)
Abstract Programming Committee, American Society of Cell Biology (1991, 1993, 1994, 1998, 1999)
Ad-Hoc reviewer for: National Science Foundation (Molecular Cell Biology section)
Human Frontier Science Program; Medical Research Council, and Molecular and Cell Medicine Board.
Member of American Society for Cell Biology (1988-present)
Member of American Association for Advancement of Science (1998-present)
Member of Biophysical Society (1999-present)

PROFESSIONAL ACTIVITIES

INTERNAL:

Director for Oxford / Cambridge / NIH Graduate School Incoming Class of 2006
Trans-NIH IRP Imaging Initiative Implementation Committee (2007)
NIH Working Group on Women in Biomedical Careers (2007)
Chairman, Cell Biology Interest Group at NIH (1996-present)
FAES Board of Directors (2000-present)
SBRS Policy Board (2000-present)
HHMI-NIH Research Scholars Program Advisory Committee (1999-2002)
Office of Research Services, NIH (1995-1999)
Fogarty Scholars Panel at NIH (1998-present)
Search Committee for Director of Bio-Engineering and Physical Science Program at NIH, (1998)
Tenure Track Search Committees for NIAID (1995), NIDDK (1995), NHGRI (1999), NIDDK (2001), NIHLB (2009)
Tenure & Promotion Committee, NINDS (2008-2009)
Mentor for 5 Ph.D students; 3 Predoctoral-IRTA (year-off) fellows, 9 undergraduate summer students and 3 HHMI medical students

TEACHING

AAAS Webinar: Protein Tagging Technologies in Cell Imaging Analysis (2009)
Faculty "Physiology: Cell and Molecular Biology" Marine Biological Laboratories, Woods Hole, MA. Annual Summer course (2006, 2007, 2008, 2009 and 2010).
Faculty for Bangalore Microscopy Course at National Center of Biological Sciences, Bangalore, India (2009)
Faculty for Joint FEBS/EMBO Lecture Course on "Molecular And Cellular Membrane Biology" in Cargèse, Corsica (2009)
Guest lecturer, "Three-dimensional microscopy of living cells", Summer course. Vancouver, British Columbia, CA (2007 and 2008)
Lecturer for "Demystifying Medicine" course at National Institutes of Health, Bethesda, MD (2004-2006)
Guest lecturer, Cornell University Cell Biology Course (2004)
Lecturer, Foundation for Advance Education in Science, National Institutes of Health, Bethesda, MD (1999, 2000 and 2003)
Course Instructor, Live Cell Imaging Workshop, Institute of Neurobiology, University of Heidelberg, Heidelberg, Germany (2000)
Course Instructor, European Molecular Biology Organization Light Microscopy Course, Max Planck Institute, Gottingen (2000)
Lecturer, Cold Spring Harbor course in "Brain Development and Function", Cold Spring Harbor, NY (1998)
Lecturer, Cold Spring Harbor course in "Advanced In Situ Hybridization and Immunocytochemistry", Cold Spring Harbor, NY (1998)
Lecturer, Graduate Student Cell Biology Course, George Washington University, Washington, DC (1998)
Faculty, "Membrane Dynamics and advanced methods in video light microscopy" Annual Summer course at Marine Biological Laboratory, Woods Hole, MA (1996)

MEETING ORGANIZER

- 2010 Co-Organizer, Novel Approaches to Bioimaging III, Janelia Farm Conference
- 2009 Co-Organizer, The 2008 Golgi Meeting, Pavia, Italy
- 2008 Vice Chairman, Gordon Research Conference, "Molecular Biology of the Cell"
- 2003 Organizer, Keystone Conference, "Dynamics of Cellular Organization"
- 2003 Chairman, Gordon Research Conference, "Molecular Membrane Biology"
- 2001 Vice Chairman, Gordon Research Conference, "Molecular Membrane Biology"
- 2001 Co-Organizer Keith Porter Symposium, "Cytoskeletal organization and membrane traffic", Airlie House, Virginia
- 2002 Co-Organizer, Minisymposium on "Organelle Dynamics", American Society for Cell Biology Meeting, San Francisco, CA
- 1999 Co-Organizer, ASCB/EMBO Meeting, "Membrane Trafficking and the Cytoskeleton: an Integrated View", Santa Maria Imbaro, Italy.
- 1998 Chairman of Scientific Program, ASCB Meeting, San Francisco, CA
- 1998 Co-Chairman of Symposium on "Membrane Trafficking: New Insights at the Molecular and Cellular Levels", NIH Festival, Bethesda, MD
- 1997 Co-Chairman of Symposium on, "Applications of GFP to Cell Biology", Microscopy and Analysis Meeting, Cleveland, Ohio.
- 1996 Co-Convener of Theme Symposia on "Intracellular Membrane Trafficking", Biomedicine, Washington, DC
- 1993 Organizer, ASCB Special Interest Subgroup meeting on "Defining the Golgi complex in Diverse Cell Types"
- 1991 Organizer, ASCB Special Interest Subgroup meeting on "Brefeldin A: its effects on intracellular organelles"
- 1990 Organizer, ASCB Special Interest Subgroup meeting on "Dynamics of the Golgi complex"

INVITED LECTURES and TALKS AT SCIENTIFIC MEETINGS (1997-PRESENT)

- 1997 Department of Biology, Princeton University, Princeton, NJ
 Department of Cell Biology, University of Colorado at Boulder, Boulder, CO.
 Department of Biology, University of Pennsylvania, Philadelphia, PA
 National Cancer Institute Departmental seminar, NIH, Bethesda, MD
 Department of Cell Biology, Mt. Sinai School of Medicine, NY
 Department of Biology, University of Amsterdam, Netherlands
 Cell Biology Department, University of Utrecht, Netherlands
 European Cell Biology Organization Meeting, Brighton, UK
 Department of Cell Biology, Duke University, Chapel Hill, NC
 Department of Pharmacology, Vanderbilt Univ. Medical Center, Nashville, TN
 American Lung Association/ American Thoracic Society International Conference, San Francisco, CA
 Department of Cell Biology, University of Alabama, Birmingham, AL
 American Association for the Study of Liver Diseases Research Conference on "Vesicle-based transport through hepatic epithelium: mechanisms and pathology", Airlie House, Airlie, VA
 Physiology Course Lecture, Marine Biological Laboratories, Woods Hole, MA
 Gordon Research Conference, Molecular Membrane Biology, Andover, NH
 Microscopy and Microanalysis Meeting, Cleveland, Ohio.
 Aspen Center for Physics, Aspen, CO.
 Symposium on Mechanisms of Toxicity, Johns Hopkins University, Baltimore, MD

Department of Biochemistry, Northwestern Univ., Chicago, IL
Keith Porter Commemoration, From the Roots of Modern Cell Biology to the
Present Flowering, Rockefeller Univ., New York, NY.
NIH-sponsored Immunology Conference at Airlie House, Airlie, VA
International Symposium on Green Fluorescent Protein, New Brunswick, NJ
Biophysics Interest Group, National Institutes of Health, Bethesda, MD
Pharmacology Research Association Training Program Lecture, Bethesda,
MD
Department of Biochemistry, Washington University, St Louis, MO
Biology of the Nucleus, Airlie House, Airlie, VA
High School Symposium at American Society of Cell Meeting, Washington
DC
American Society of Cell Biology Annual Meeting, How the cell sorts
symposium, ASCB, Washington, DC

1998

European Molecular Biology Organization Workshop, Protein sorting and
processing in the secretory pathway, Annaberg, Austria
Molecular Biology Seminar Series, Biozentrum, University Basel,
Switzerland
Cell Biology Branch, Heart Lung and Blood Institute, NIH, Bethesda, MD
International Society of Analytical Cytology Meeting, Colorado Springs, CO
Department of Cell Biology, Virginia Technology Institute, Blacksburg, VA
Conference on Protein Folding, Banff, Canada
National Institute of Neurological Disorders and Stroke, NIH, Bethesda, MD
Molecular Cell Biology Department, University of Maryland, College Park,
MD
Department of Neurobiology, University of Maryland School of Medicine,
Baltimore, MD
Department of Biochemistry, University California San Francisco Medical
School, San Francisco, CA
Department of Cell Biology, European Molecular Biology Laboratories,
Heidelberg, Germany
Golgifest Honoring of Camillo Golgi, Harvard Medical School, Boston, MA
Department of Cell Biology, Yale University, New Haven, CT
State of the Art: Imaging techniques for the Biological Sciences, University of
Toronto, Ontario
Molecular Cell Biology Department, University of Maryland, College Park,
MD
National Institute of Allergy and Infectious Diseases Lecture Series, NIH,
Bethesda
Half Century of Advances in Microscopy: a Symposium Honoring Keith
Porter, Woods Hole, MA
National Cancer Institute-LRBGE seminar, NIH, Bethesda, MD
Asian Pacific Cell Biology Meeting, Osaka, Japan
2nd Cell Biology Symposium of the MDC on Protein Transport and Stability,
Berlin, Germany
GFST Symposium on Endocytosis and Intracellular Trafficking
Ames, Iowa.
100th Anniversary of the Golgi Complex Conference, Pavia, Italy
European Research Conferences, Membrane Dynamics in Exocytosis:
Molecular Mechanisms, Giens, France.
NIH Research Festival, Membrane trafficking: New insights at the molecular
and cellular levels

- 1999
- Keystone Symposium, Molecular Physiology and Pathology of Membrane Traffic, Santa Fe, New Mexico
 - Department Cell Biology, University of Georgia, Athens, Georgia
 - Cell Biology Department, Emory University, Atlanta, Georgia
 - Glaxowellcome Lecturer, Department of Cell Biol., McGill University, Montreal, Canada
 - 23rd Annual Meeting of German Society for Cell Biology, Rostock, Germany
 - Institut Curie, Paris, France
 - International Symposium on the Golgi complex, CEA, Saclay, France
 - Department of Cell Biology, University of Chicago, Chicago, IL.
 - Burrough's Welcome Professorship Lecture, Thomas Jefferson University, Philadelphia, PA.
 - Keystone Symposium, Protein folding in the early secretory pathway, Copper Mountain, CO.
 - National Human Genome Research Institute Seminar, NIH, Bethesda, MD
 - American Society of Anatomists, Washington, DC.
 - American Physiology Society, FASEB Mtg, Washington, DC.
 - Department of Cell Biology, University of Kentucky, Lexington, KY
 - Genentech, San Francisco, CA
 - Department of Physiology, University of California San Francisco, San Francisco, CA
 - Lawrence Berkeley National Laboratory, Berkeley, CA
 - National Institutes of Health-Johns Hopkins University Protein Trafficking Workshop, Annapolis, MD
 - Gordon Research Conference, Molecular Biology of the Cell, Tilton, NH
 - American Society of Cell Biology / European Molecular Biology Organization Conference, Membrane traffic and the Cytoskeleton, Santa Maria Imbaro, Italy
 - Gordon Research Conference, Molecular Membrane Biology, Andover, NH
 - Gordon Research Conference, Biological Structure and Function, Tilton, NH
 - Department of Biology, Johns Hopkins University, Baltimore, MD
 - International Conference on Transport of Proteins and Membranes, Max-Planck-Institute for Biophysical Chemistry, Gottingen, Germany
 - NIH Research Festival, NIH, Bethesda, MD
 - International Conference on Cell Dynamics, Max Planck Institute for Biochemistry, Munich, Germany
 - NIH Immunology Interest Group Retreat, Airlie House, Airlie, Virginia
 - Bridging Basic Science and Liver Disease, American Liver Foundation Symposium, Museum of Science, Boston, MA
 - American Society of Nephrology, Miami Beach, Florida
 - Cell Biology and Physiology Department, University of Pittsburgh, School of Medicine, Pittsburgh, PA
 - Department of Biology, Univ. Rochester, Rochester, NY
 - Molecular and Cell Biology Program, State University of New York-HSCB, New York, NY
 - American Society of Cell Biology Annual Meeting, Developments in Live Cell Imaging, Washington, DC
- 2000
- Mount Sinai School of Medicine, Dean's Lecture Series
 - Biophysics Society, Membrane trafficking Symposium, Baltimore, MD
 - Laboratory of Molecular Genetics, National Institute of Child Health and

Human Development, NIH, Bethesda, MD
 National Institute of Allergy and Infectious Disease, NIH, Bethesda, MD
 Department of Medicine Lecture Series, University of Alabama,
 Birmingham, Alabama
 New York University, School of Medicine, Honors Lecture Series
 Developmental Biology Research Seminar, Children's Hospital Medical
 Center Cincinnati, Ohio
 Pre-IRTA Lecture Series, NIH, Bethesda, MD
 Department of Molecular Biotechnology, University of Washington, Seattle,
 WA
 National Heart, Lung and Blood Institute, NIH, Bethesda, MD
 Laboratory of Chemical Biology and Biochemistry, National Institute of
 Diabetes and Digestive and Kidney Diseases, NIH, Bethesda, MD
 Lecture for Foundation of Advanced Education for the Sciences Course on
 the Cell Cycle, NIH, Bethesda, MD
 Gordon Research Conference, Lysosomes, Andover, NH
 International Photobiology Meeting, San Francisco, CA
 NIH Undergraduate Scholarship Program Lecture Series, Bethesda, MD
 15th Annual National MD/PhD Student Conference, Aspen, CO
 BioCity Symposium on Intracellular Trafficking, Turku, Finland
 Feulgin Lectureship, 42nd Symposium of Society for Histochemistry, Les
 Diablerets, Switzerland
 Whitehead Symposium XVIII, Molecular Machines, MIT, Boston, MA
 Department Cell Biology, University of Geneva, Geneva, Switzerland
 Department of Biochemistry and Cell Biology, State University New York,
 Stony Brook, NY
 SAIC, National Cancer Institute, Frederick, MD
 Protein Trafficking Course, University Michigan Medical School, Ann Arbor
 Michigan
 Center for Biological Evaluation Research, NIH, Bethesda, MD
 National Institute of Dental and Craniofacial Research, NIH, Bethesda, MD
 American Society of Cell Biology Annual Meeting, Minisymposium on
 Organelle Dynamics, San Francisco, CA
 National Cancer Institute, NIH, Bethesda, MD

2001 National Center for Biological Sciences, Symposium on Cell and
 Developmental Biology, Bangalore, India
 Department of Cell Biology, Johns Hopkins Medical School, Baltimore, MD
 National Heart, Lung and Blood Institute, NIH, Bethesda, MD
 11th International Symposium, Dynamics of Intracellular Organelles,
 Canadian Society of Biochemistry and Molecular and Cell Biology,
 Quebec, Canada.
 Department of Cell Biology, Yale University, New Haven, CT
 Center for Biological Evaluation Research, NIH, Bethesda, MD
 Cell Biology Department, Scripps Institute, La Jolla, CA.
 Symposium on Computational Cell Biology, Lenox, MA
 Workshop on Phosphoinositides and the Golgi, National Institutes of
 Health, Bethesda, MD
 Keith Porter Symposium on Membranes and Cytoskeleton, Airle House,
 Airlie, VA
 American Society of Biology and Molecular Biology Meeting, Orlando,
 Florida

Department of Physiology, Case Western Reserve University, Cleveland, Ohio
Biochemistry Department, Cornell Medical School, NYC, NY
Gordon Research Conference, Molecular Cell Biology, Tilton, NH
Graduate Student Seminar Series, Vanderbilt University, Nashville, TN
Division of Biology, University California San Diego, La Jolla, CA
Gordon Research Conference, Molecular Membrane Biology, Andover, NH
Gordon Research Conference, Red Blood Cell, Tilton, NH
15th Symposium of the Protein Society, Philadelphia, PA
EMBO Workshop: Cell Biology of Virus Infection, European Molecular Biology Laboratories, Heidelberg, Germany
Department of Molecular and Cell Biology, Brown University, RI
NIH Research Festival, Imaging approaches, Bethesda, MD
Cell Biology Symposium, Dartmouth University, Hanover, NH
Department of Neurobiology, Chicago, Chicago, IL
Department of Molecular Biology, Princeton University, Princeton, NJ
Department of Cell Biology, University of Pennsylvania Medical School. Philadelphia, PA

2002 Department of Molecular and Cell Biology, Harvard University, Cambridge, MA
Gordon Research Conference, Protein Conformations, Tilton, NH
Molecular Research Council Cambridge Univ., Cambridge, England
British Society of Cell Biologists Meeting, York, England
Department of Cell Biology, University of Geneva, Geneva, Switzerland
Department of Cell Biology, Duke University, Durham, North Carolina
International Symposium, Topology and dynamics of signalling complexes, University of Stuttgart, Stuttgart, Germany
Protein Society Annual Meeting, New Orleans, LA
Joint Hopkins-NIH Protein Trafficking Meeting, Annapolis, MD
American Society of Microbiology Annual Meeting, Washington, DC
European Light Microscopy Annual Meeting, Paris, France
European Life Science Organization Meeting (ELSO), Nice, France
Annual Meeting of Society of General Physiology "Trafficking of transporters", Woods Hole, MA
Tumor Biology Seminar Series, Lombardi Cancer Center, Georgetown University Medical Center, Washington, DC
Cell Biology and Molecular Biology Department, Wisconsin University, Madison, Wisconsin
Physiology Department, University of Texas Southwest Medical Center, Dallas, Texas
Holland Laboratory, American Red Cross, Rockville, MD
Heidelberg University, Heidelberg, Germany
European Molecular Biology Laboratories, Heidelberg, Germany
International Advanced Microscopy Course, NIH, Bethesda, MD
Biophysics and Biochemistry Dept., UCSF, San Francisco, CA

2003 Hospital for Sick Children, Toronto, Canada
Department of Biology, Stanford University, Palo Alto, CA
Department Cell Biology, Columbia University, New York City, NY
Keystone Meeting on "Cellular Dynamics", Taos, NM
Biophysics Meeting, San Antonio, TX
Keystone Meeting on "Diseases of the secretory pathway", Taos, NM

Pittcom Meeting, Orlando, Florida
National Institute of Diabetes and Digestive and Kidney Diseases seminar series, NIH, Bethesda, MD
Department of Biology, Iowa State University, Ames, Iowa
Demystifying Medicine Course, National Institutes of Health, Bethesda, MD
National Heart, Lung and Blood Institute Bio-Imaging Symposium: Forefronts in Bio-Imaging Bethesda, MD
Department of Biophysics and Biology, Oregon Health Science University, Portland, Oregon
Carnegie Institute of Embryology, Baltimore, MD
American Society of Microbiology, Washington, DC
Van Leeuwenhoek Symposium, Netherlands Cancer Institute, Amsterdam, The Netherlands.
Gordon Research Conference, Molecular Biology of the Cell, Andover, NH
National Heart, Lung, and Blood Institute, NIH, Bethesda, MD
Symposium on "Imaging Molecular Events in Living Cells", NIH, Bethesda, MD
Gordon Research Conference, Molecular Membrane Biology, Andover, NH
Society of Experimental Biology, University of Glasgow, Scotland
National Institute of Child Health and Human Development's 40th Anniversary Scientific Symposium, Bethesda, MD
Annual Meeting of OGBM, OGGGT, OGBT and ANGT, Graz, Austria
European Molecular Biology Laboratory Minisymposium on "Modern Methods in Cell Biology", Heidelberg, Germany
NIH/NSF Workshop on Nanotechnology
Department of Biology, Wayne State University, Detroit, Michigan
Department of Physiology, University of Connecticut Health Center, Farmington, CT
American Society of Nephrology, San Diego, CA
Department of Physiology and Molecular Biology, Colorado State University, Fort Collins, CO
Department Cell Biology, Harvard Medical School, Boston, MA
Advanced Confocal Symposium, NIH, Bethesda, MD
Symposium on "Challenges in Biological Imaging: From cells to molecules", UC Berkeley, Berkeley, CA.
American Society of Cell Biology Meeting, Subgroup on caveolae and rafts, San Francisco, CA

2004

University of Western Ontario, Ontario, Canada
Keystone Conference on the Golgi apparatus, Breckenridge, CO
Tufts-New England Medical Center, Boston, MA
National Institute of Allergy and Infectious Diseases, NIH, Bethesda, MD
Biophysics Annual Meeting, Baltimore, MD
Department of Neurology and Physiology, University of California at San Francisco, San Francisco, CA
National Human Genome Research Institute, NIH, Bethesda, MD
Symposium "Cell Dynamics: subcellular and cellular movements", Cologne, Germany
University of Massachusetts Medical School, Worcester, MA
Keystone Conference, Molecular cell biology of lipid domains, Vancouver, Canada
Department of Biophysics, Cornell University, Ithaca, NY

Leading Edge Seminar, Children's Hospital, Harvard Medical School,
Boston, MA
Department of Biological Sciences, University of Chicago, Chicago, IL
8th IUMB Conference, Boston, MA
Gordon Research Conference on Lysosomes, Andover, NH
Marine Biological Laboratory Symposium honoring Shinya Inoue, Woods
Hole, MA
EURESCO Conference, Frontiers of Cellular Microbiology and Cell Biology,
San Feliu de Guixois, Spain
Nature Horizons Symposium, Verona, Italy
Win Arias Symposium, Boston Convention Center, MA
Seminars in Biomedical Sciences, University of California at San Francisco,
San Francisco, CA
Biology Department, University of Michigan, Ann Arbor, MI
Center for Biological Evaluation and Research, Federal Drug
Administration, Bethesda, MD
American Society of Cell Biology Subgroup Meeting on Bioinformatics
University of Wurzburg, Germany

2005 Keystone Symposia, Plant Cell Signaling: In vivo and Omics approaches,
Santa Fe, NM
Uniformed Services University of the Health Sciences-School of Medicine,
Bethesda, MD
Department of Biological Sciences, Rockefeller University, NY, NY
University of British Columbia, Vancouver, Canada
CSBMCB 48th Annual Meeting, Canadian Society of Biochemistry, Banff,
Canada
Keystone Symposia, Systems Biology, Keystone, CO
Georgia Institute of Technology, Atlanta, Georgia
Biophysics and Molecular Biology Branch, National Institute of Child Health
and Human Development, NIH, Bethesda, MD
European Light Microscopy Meeting, Semerling, Austria
Department of Cell Biology and Oncology, Consorzio "Mario Negri Sud",
Italy
Imperial College of London, UK
Opening Symposium Gurdon Institute, Cambridge, UK
Marine Biological Laboratory Physiology Course, Woods Hole, MA
Marine Biological Laboratory, Developmental Biology Symposium, Woods
Hole, MA
Gordon Research Conference on Molecule Membrane Biology, NH
Society for Developmental Biology, San Francisco, CA
Promega Imaging Conference, Madison, WI
Conference on Aquaporins, Genval, Belgium
Laboratory of Physiology, University of Leuven, Belgium
7th Young Scientists Meeting, German Society of Cell Biology, Jena,
Germany
Imaging in 2020. Jackson Hole, Wyoming
National Cancer Institute, Workshop on ER stress and cancer, Bethesda, MD
Cancer Research Institute, London, UK
Molecular Biology Society of Japan Annual Meeting, Fukuoka, Japan

2006 University of Queensland, Queensland, Australia
University of Melbourne, Melbourne, Australia

Lorne Protein Structure and Function meeting, Lorne, Australia
 Molecular Research Council , Mill Hill, London, UK
 Institute for Molecular Biophysics, Bar Harbor, Maine
 2nd Annual NICHD Postdoc Retreat, Univ. MD, College Park, MD
 Frontiers in Bioimaging, Okazaki, Japan
 Department of Biology, University of Virginia, Charlottesville, VA
 National Institutes of Health Live Cell Imaging Meeting, Bethesda, MD
 Italian Association of Cell Biology, Pontignano, Italy
 San Raffaele Scientific Institute, Milan, Italy
 Salk Institute, La Jolla, CA
 Oregon Health & Sciences University, Portland, OR
 Skirball Institute, New York University Medical School, NYC, NY
 Memorial Sloan-Kettering Cancer Center, NYC, NY
 Institute for Biophysical Dynamics, University of Chicago, Chicago, IL
 National Institute of Child Health and Development Summer Lecture Series,
 Bethesda, MD
 Gordon Research Conference, Lysosome and Endocytosis, Proctor
 Academy, Andover, NH
 Gordon Research Conference, Molecular Cell Biology, Tilton, NH
 Marine Biological Laboratories Lecture, Woods Hole, MA
 7th Joint Meeting of The Histochemical Society and The Japan Society of
 Histochemistry and Cytochemistry, Hawaii
 American Chemical Society Meeting, San Francisco, CA
 British Society of Cell Biology, Egham, England
 EMBO/FEBS/ESF Meeting, San Feliux de Guixols, Spain
 Centre d'Immunologie de Marseille, Marseille, France
 Pasteur Institute, Paris, France
 Department of Developmental Biology, University of Copenhagen,
 Copenhagen, Denmark
 Swiss Federal Institute of Technology, Zurich, Switzerland
 National Research Council, University of Ottawa, Ottawa, Canada
 Department of Biological Sciences, Carnegie Mellon University, Pittsburgh,
 PA
 Ringberg Colloquium, Tegernsee, Germany

2007 Department of Anatomy and Structural Biology, Albert Einstein College of
 Medicine, Bronx, NY
 Center for Cell Dynamics, Friday Harbor Laboratories, Friday Harbor,
 Washington
 Department of Biological Chemistry, UCLA School of Medicine, Los
 Angeles, CA
 The University of Texas Southwestern Medical Center, Dallas, Texas
 Experimental Biology 2007, American Society for Biochemistry and
 Molecular Biology, Washington, DC
 Center for Cell Dynamics in Development and Disease, Johns Hopkins
 School of Medicine, Baltimore, MD
 Department of Molecular Biophysics and Biochemistry, Yale University,
 New Haven, CT
 Life Sciences and Genomics Divisions Seminar, Lawrence Berkeley National
 Laboratory, Berkeley, CA
 Program in Cell Biology; and Department of Biochemistry and Biophysics
 University of California School of Medicine, San Francisco, CA

Gordon Research Conference on Bioorganic Chemistry, Proctor Academy,
Andover, NH
Graduate Symposium, Laboratory of Molecular Biology, Medical Research
Council, Cambridge, England
Department of Physics, University of Illinois at Urbana-Champaign, Urbana,
IL
Department of Chemistry, Department of Pennsylvania, Philadelphia, PA
Janelia Farm, Howard Hughes Medical Institute, Ashton, Virginia
Department of Physiology and Biophysics, University of Iowa, Iowa City,
Iowa
Weizmann Institute of Science, Rehovot, Israel
Department of Pathology, Sackler School of Medicine, Tel Aviv University
Tel Aviv, Israel
Department of Biological Sciences, George Washington University,
Washington, DC
Massachusetts General Hospital, Foundation ISPEN and Cell Press
Workshop on Biology in Motion, Evian-Les-Bains, France
Federation Experimental Biology Society Meeting, Vienna, Austria
ASCB and European Cytoskeleton Forum, Dijon, France
Theo Hofmann Lecture, University of Toronto, Toronto, Canada
Fifth Annual Cell and Developmental Biology retreat, Vanderbilt School of
Medicine, Vanderbilt, TN
The Mary Bartlett Bunge Distinguished Lecture, Miller School of Medicine,
University of Miami, Miami, Florida
Chemistry and Biochemistry Department, University of Colorado, Boulder
Boulder, CO
Department of Cell Biology and Physiology, University of New Mexico,
Albuquerque, NM
Leica Scientific Forum, University of Heidelberg, Heidelberg, Germany
Ubiquitin and Ubiquitin-like Modifications in Viral Infection and Immunity
workshop, NIH, Bethesda, MD
Friday Lecture Series, Rockefeller University, New York, NY.
Membrane Dynamics and Disease Symposium, Mayo Clinic, Rochester, MN.
National Cancer Institute, NIH Distinguished Speaker Series, Frederick, MD

2008

Biochemical Society Meeting on "Mechanics and control of cytokinesis",
Edinburgh, Scotland
Department of Physiology, Univ. of Maryland School of Medicine,
Baltimore, MD
Department of Biology, California Institute of Technology, Pasadena, CA
Department of Biochemistry, University of Toronto, Toronto, Canada
New Frontiers in Mitochondria Science, Janelia Farm, Ashton, VA
Distinguished Speaker Series, Department of Molecular and Cellular
Biology, University of Guelph, Guelph, Canada
Hybrid Methods 2008, Lake Tahoe, CA
Department of Molecular Biology, Princeton University, NJ
Max-Planck-Institute for Biophysical Chemistry, University of Goettingen,
Goettingen, Germany
University of Massachusetts Dartmouth, Dartmouth, MS
Krasnow Institute for Advanced Study, George Mason University, Fairfax,
VA
Emory University School of Medicine, Atlanta, GA

National Cancer Institute, NIH, Frederick, MD
SBMC Conference on Systems Biology of Mammalian Cells, Dresden,
Germany
Gordon Research Conference on Molecular Biology of the Cell, Colby-
Sawyer College, New London, NH
Gordon Research Conference on Proprotein Processing, Trafficking &
Secretion, Colby-Sawyer College, New London, NH
The 2008 Golgi Meeting, Pavia Italy
50th Anniversary Symposium, University of Science and Technology of
China, Hefei, China
Shanghai Institute for Biological Sciences, Chinese Academy of Sciences,
Shanghai, China
Zhejiang University, Hangzhou, China
Tsinghua University, Beijing, China
Mitochondrial Biology in Cardiovascular Health and Diseases Conference,
NIH, Bethesda, MD
NIH Research Festival, Bethesda, MD
The Kenneth F. Nairdorf Memorial Lecture, Columbia University, New
York, NY
Center for Cellular Dynamics, The Pennsylvania State University, University
Park, PA.
Alma Howard Lecture, McGill University, Montreal, Canada
The Anita Roberts Lecture, NIH, Bethesda, MD
American Society of Nephrology, Philadelphia, PA

2009

Wellcome Trust Frontiers Meeting on the Future of Light Microscopy,
Cambridge, UK
High Resolution Microscopy and Imaging for Biological Materials, New
York Academy of Sciences, NY
University of Illinois, College of Medicine, Chicago, Ill
Rocky Mountain Laboratories, Hamilton, Montana
University of North Carolina, School of Medicine, Chapel Hill, NC
Pediatric Oncology Branch, NCI, NIH, Bethesda, MD
Carnegie Mellon University, Pittsburg, PA
Vanderbilt University, Student-invited seminar, Nashville, TN.
Experimental Biology, New Orleans, Louisiana
University of Nebraska Medical Center, Omaha, Nebraska
Carnegie Institute of Washington, Department of Embryology, Baltimore,
MD
Rutgers University, Newark NJ
University of Illinois College of Medicine, Department
of Pharmacology, Chicago, Ill
British Society for Cell Biology and Biochemical Society, Edinburgh,
Scotland
European Molecular Biology Laboratories, Heidelberg, Germany
University of Massachusetts, Amherst, MA
New York City Blood Center, New York, NY
Molecular Membrane Biology Gordon Research Conference, Proctor, NH
American Chemical Society, Washington, DC
Cornell Biophysics Department, Ithaca, NY
International Symposium of the SFB, Alter Aula, Marburg, Germany

International Symposium on "Analysis of Biomolecular Machines in the Nanometer Range, Jena, Germany
 University of Puget Sound, Tacoma, WA
 National Institute of Health Research Festival, Bethesda, MD
 CSF European Autophagy meeting, Monte Verita, Switzerland
 Win Arias Symposium, Boston, MA
 Symposium on New Developments in Super-Resolution and Single-Molecule Microscopy, Rockefeller University, New York, NY
 Fluorescent Proteins and Biological Sensors, Janelia Farm, Ashburn, VA
 University of Delaware, Department of Biological Sciences, Newark, DE
 Harvard University, Molecular and Cellular Biology Department, Cambridge, MA
 Stanford University, Department of Biological Sciences, Stanford, CA
 Symposium at American Society for Cell Biology, San Diego, CA

2010

University of Maryland, Department of Pharmacology, College Park, MD
 Fred Hutchison Cancer Research Center, Seattle, WA
 Rodbell Lecture, NIEHS, Research Triangle Park, NC
 Cologne Spring Meeting, Cologne, Germany
 Annual Biophysics Society Meeting, San Francisco, CA
 Fox Chase Cancer Institute, Philadelphia, PA
 Graz Lipid Conference, Graz, Austria
 University of Michigan, Life Sciences Institute, Ann Arbor, MI
 Joint Keystone Symposium, Islet Biology / Diabetes (2010), Whistler, Canada
 Janelia Farm Conference, Novel Approaches to Bioimaging III, Ashburn, VA
 Keynote Presentation, IEEE International Conference on Bioinformatics and Bioengineering, Thomas Jefferson University, Philadelphia, PA
 NIAMS retreat, NIH, Bethesda, MD
 University of Massachusetts, Worcester, MA
 Harvard Medical School, Pathology Department, Boston, MA
 University of North Carolina, Department of Cell and Molecular Physiology, Chapel Hill, NC

POSTDOCTORAL FELLOWS AND GRADUATE STUDENTS TRAINED

Jan Ellenberg	Now Coordinator and Senior Scientist, Gene Expression Unit European Molecular Biology Laboratory (EMBL), Heidelberg, Germany
Benjamin Nichols	Now Associate Professor at Molecular Research Council, Laboratory of Molecular Biology, Cambridge, UK
John Presley	Now Assistant Professor at McGill University, Montreal, Canada
Nelson Cole	Now Staff Associate, Genetic Disease Research Branch, National Human Genome Research Institute, NIH, Bethesda, MD
Koret Hirschberg	Now Assistant Professor at Sackler Institute, University of Tel Aviv, Tel Aviv, Israel
Roman Polishchuk	Now Head, Microscopy and Bio-Imaging Facility, Department of Cell Biology and Oncology, Consorzio "Mario Negri Sud" Santa Maria Imbaro (CH), 66030, Italy
Nihal Altan-Bonnet	Now Assistant Professor, Department of Biological Sciences Rutgers University, Newark, New Jersey

Eric Snapp	Now Assistant Professor, Department of Anatomy and Structural Biology, Bronx, New York
Anne Kenworthy	Now Assistant Professor, Departments of Molecular Physiology & Biophysics and Cell & Developmental Biology, Vanderbilt University School of Medicine, Nashville, TN
George Patterson	Now Staff Associate in my lab, National Institute of Child Health and Human Development, NIH, Bethesda, MD
Kristein Zaal	Now Light Imaging Section Manager at the National Institute of Arthritis and Musculoskeletal and Skin Diseases, Bethesda, MD
Noah Sciaky	Now Director of Microscopy and High Content Screening for the Department of Pharmacology, University of North Carolina, Chapel Hill, NC
Theresa Ward	Now Royal Society Dorothy Hodgkin Fellow, Immunology Unit Department of Infectious & Tropical Diseases, London School of Hygiene & Tropical Medicine, London, UK
Wei Liu	Now Assistant Professor at Zhejiang University, Zijingang Campus, Hangzhou, Zhejiang, China
Holger Lorenz	Now Research Representative at Carl Zeiss MicroImaging, Göttingen Germany.
Manos Mavrakis	Now Research Fellow at the IBDML, University of Marseille, Marseille, France.
Andrea Pfeffer	Now Postdoctoral Fellow at the University of Heidelberg, Germany
Dale Hailey	Now Postdoctoral Fellow at the University of Washington, Seattle, WA
Markus Elsner	Now Editor at <i>Nature Biotechnology</i>
Peter Kim	Now Assistant Professor at The Hospital for Sick Children, Toronto, Ontario

CURRENT POSTDOCTORAL FELLOWS AND GRADUATE STUDENTS

Jennifer Chua	Ph.D with Vojo Deretic, University of New Mexico, Albuquerque, NM
Carolyn Ott	Ph.D with Vishnu Lingappa, University California, San Francisco, CA
Kasturi Mitra	Ph.D with Sisinthy Shivaji, Centre for Cellular and Molecular Biology, Hyderabad, India
Suliana Manley	Ph.D with David Weitz, Harvard University, Boston, MA
Christian Wunder	Ph.D with Franz Oesch, University of Mainz, Mainz, Germany
George Patterson	Ph.D with David Piston, Vanderbilt University, Nashville, TN
Natalie Elia	Ph.D with Zvi Selinger, Hebrew University, Jerusalem, Israel
Jennifer Gillette	Ph.D with Sheila Nielsen-Preiss, University of Colorado Health Science Center, Denver, CO
Richa Rikhy	Ph.D with K.S. Krishnan, TATA Institute of Fundamental Research, Bombay, India
Dylan Burnette	Ph.D with Dr. Paul Forscher, Yale University
Nicole Grieder	Postdoctoral training with Dr. Walter Gehring in Basel, Switzerland.
Angelica Rambold	Ph.D with Ulrich Hartl, Max Planck Institute, Martinsried, Germany
Prasanna Satpute-Krishnan	Ph.D with Tricia R. Serio at Brown University, Providence, RI

PUBLICATIONS

1. Lippincott-Schwartz, J., and Fambrough, D.M. (1986) Lysosomal membrane dynamics: structure and inter-organellar movement of a major lysosomal membrane glycoprotein. *J. Cell Biol.* **102**: 1593-1605.
2. Lippincott-Schwartz, J., and Fambrough, D.M. (1987) Cycling of the integral membrane glycoprotein, LEP 100, between plasma membrane and lysosomes: kinetic and morphological analysis. *Cell* **49**: 669-677.
3. Fambrough, D.M., Takayasu, K., Lippincott-Schwartz, J., and Siegel, N., (1988) Structure of LEP 100, a glycoprotein that shuttles between lysosomes and the plasma membrane, deduced from the nucleotide sequence of the encoding cDNA. *J. Cell Biol.* **106**: 61-68.
4. Lippincott-Schwartz, J., Bonifacino, J.S., Yuan, L.C., and Klausner, R.D. (1988) Degradation from the endoplasmic reticulum: Disposing of newly synthesized proteins. *Cell* **54**: 209-220.
5. Bonifacino, J., S., Lippincott-Schwartz, J., Chen, C., Samelson, L.E., and Klausner, R.D., (1988) Association of a T Cell Receptor Associated Protein (TRAP): Acidification early in the biosynthetic pathway. *J. Biol. Chem.* **263**: 8965-8971.
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8. Lippincott-Schwartz, Yuan, L.C., Bonifacino, J.S., and Klausner, R.D., (1989) Rapid redistribution of Golgi proteins into the endoplasmic reticulum in cells treated with brefeldin A: evidence for membrane cycling from Golgi to ER. *Cell* **56**: 801-813.
9. Bonifacino, J.S., Suzuki, C.K., Lippincott-Schwartz, J., Weissman, A.M., and Klausner, R.D. (1989) Pre-Golgi degradation of newly synthesized T cell antigen receptor chains: intrinsic sensitivity and the role subunit assembly. *J. Cell Biol.* **109**: 73-84.
10. Lippincott-Schwartz, J., Donaldson, J., Schweizer, A., Berger, E., Hauri, H.P., Yuan, L., and Klausner, R.D. (1990) Microtubule-dependent retrograde transport of Golgi proteins into the ER in the presence of brefeldin A suggests an ER recycling pathway. *Cell* **60**: 821-836.
11. Donaldson, J., Lippincott-Schwartz, J., Bloom, G.S., Kreis, T.E., and Klausner, R.D. (1990) Dissociation of a 110kD peripheral membrane protein from the Golgi apparatus is an early event in brefeldin A action. *J. Cell Biol.* **111**: 2295-2306.

12. Klausner, R.D., Lippincott-Schwartz, J., and Bonifacino, J.S. (1990) Architectural Editing: regulating the surface expression of the multicomponent T-cell antigen receptor. *Current Topics in Membrane Biology* **36**: 31-51.
13. Klausner, R.D., Lippincott-Schwartz, J., and Bonifacino, J.S. (1990) The T cell antigen receptor: insights into organelle cell biology. *Annual Review of Cell Biology* **6**: 403-431.
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15. Lippincott-Schwartz, J., Glickman, J., Donaldson, J., Robbins, J., Kreis, T.E., Seamon, K., Sheetz, M., Klausner, R.D. (1991) Forskolin inhibits and reverses brefeldin A's effects on Golgi morphology by a cAMP independent mechanism. *J. Cell Biol.* **112**: 567-577.
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TEXTBOOK

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