SOCIETY HISTORICAL INFORMATION

(current through June 2013)

Biophysical Society

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The Founding of the Biophysical Society

The founding of the Biophysical Society was the outgrowth of the initiative of the Committee of Four, composed of Samuel A. Talbot, Chairman; Kenneth S. Cole; Ernest C. Pollard; and Otto H. Schmitt, elected by a group of interested scientists at the Federation Meeting in Atlantic City in April 1956. This Committee, assisted by Ralph W. Stacy, Local Arrangements Chairman and Herman P. Schwan, Publicity Chairman, organized and administered the First National Biophysics Conference held in Columbus, Ohio, March 4–6, 1957. At the business meeting held during this conference, presided over by Max A. Lauffer, the decision was made to organize the Biophysical Society and a Temporary Council was elected. The Temporary Council later elected Robley C. Williams as its President, adopted the Constitution and Bylaws of the Society, developed by a committee chaired by Max A. Lauffer, formulated a temporary plan of operation for the first year of the Society, prepared a slate of officers for the first year and planned, with Cyrus Levinthal as Program Chairman and Arthur K. Solomon as Local Arrangements Chairman, the second meeting of the Biophysical Society held early in 1958 in Cambridge, Massachusetts. At this meeting, the recommendations of the Temporary Council were accepted, the Constitution and Bylaws were ratified and the proposed slate of officers elected, thereby formally founding the Biophysical Society.

2013 Officers & Council

Officers

Francisco Bezanilla, President
Dorothy Beckett, President-Elect
Jane Richardson, Past-President
Paul Axelsen, Treasurer
Lukas Tamm, Secretary

Council

Term Ending 2014
Karen Fleming
Amy Harkins
Peter Hinterdorfer
Marjorie Longo
Gail Robertson
Claudia Veigel

Term Ending 2015
Taekjip Ha
Samantha Harris
Marcia Levitus
Merritt Maduke
Daniel Minor
Jeanne Nerbonne
David Yue

Term Ending 2016
Juliette Lecomte
Amy Lee
Antoine van Oijen
Bonnie Wallace

Biophysical Journal

Editor-in-Chief

Leslie M. Loew

Associate Editors

Kathleen Hall
Peter Hunter
E. Michael Ostap
David Piston
Michael Pusch
Brian Salzberg
Lukas Tamm

Editorial Board

Term Ending 2013
Paulo Almeida
George Barisas
Doug Barrick
Christopher Berger
Richard Bertram
Sam Butcher
Cynthia Czajkowski
Carmen Domene
Leah Edelstein-Keshet
Scott Feller
Betty Gaffney
Bertrand Garcia-Moreno
Klaus Gawrisch
Susan Gilbert
Taekjip Ha
David Hackney
Jason Haugh
Heiko Heerklotz
Hideo Higuchi
Malcolm Irving
Anne Kenworthy
Gijsje Koenderink
Ka-Yee Lee
Andrew McCulloch
Susan Pierce
Lois Pollack
Daniel Müller
Kuda Ranatunga
James Sellers
Claudia Steinem
Michael Stern
Claudia Veigel
Denis Wirtz
Paul Wiseman
David Wolf
Charles Wolgemuth
David Yue

Term Ending 2014
Reka Albert
R. Dean Astumian
Nathan Baker
Dan Beard
Martin Blackledge
Alexandre M.J.J Bonvin
David Cafiso
Roberto Dominguez
Jose Faraldo-Gomez
Laura Finzi
Levi Gheber
James Grotberg
Anne Houdusse
Huey Huang
Gerhard Hummer
Edda Klipp
Michael Leviitt
Chris Lingle
Reinhard Lipowsky
J. Patrick Loria
Francesca Marassi
Robert Nakamoto
David Odde
Elizabeth Rhoades
Lew Romer
Stanislav Y. Shvartsman
Godfrey Smith
Ed Stuenkel
Cecile Sykes
Josh Wand
Alissa Weaver
Steven Wiley
William Wimley

Term Ending 2015
Fazly Ataullakhanov
Hagan Bayley
Dennis Bray
Leonid Brown
Axel Brunger
Mark Cannell
Amit Chattopadhyay
Patricia Clark
Enrique De La Cruz
Ashok Deniz
Andreas Engel
Ian Forster
Jeff Fredberg
Alan Rick Horwitz
Peter Hunter
Rong Li
Hassane Mchaourab
Joseph Mindell
Randall Rasmusson
Matthias Rief
Doug Robinson
Cathy Royer
David Rueda
Brian Salzberg
Simon Scheuring
James Sneyd
Sean Sun
William Kobertz
Ernest Wright

Society Committees

Awards

H. Jane Dyson, Chair (2016)
Mary Barkley (2014)
Rich Lewis (2016)
Anita Zimmerman (2014)
Dorothy Beckett, ex officio
Francisco Bezanilla, ex officio
Jane Richardson, ex officio

Early Careers

Prithwish Pal, Chair (2016)
Ravi Balijepalli (2016)
Leandro Barbosa (2016)
Nadukkudy Eldho (2015)
Pooja Gupta (2014)
Harshad Joshi (2016)
Mallikarjunaial Kodirampura (2016)
Susy Kohout (2014)
Evangelia Kotsikorou (2015)
Alexey Koyfman (2016)
Medha Pathak (2016)
Andrew Powl (2015)
Damien Samways (2016)
Amit Singhai (2015)
Nikolai Smolin (2016)
Bert Tanner (2016)
Andrew White (2014)
Dianwen Zhang (2015)

Education

Richard Ludescher, Chair (2014)
Margaret Cheung (2015)
Linda Columbus (2015)
James Groome (2015)
William Guilford (2014)
Ahmed Heikal (2014)
Irena Levitan (2014)
Edwin Li (2016)
Vince LiCata (2016)
Nael McCarty (2016)
Samarendra Mohanty (2015)
Peter Nelson (2016)
Horia Petrache (2016)
Anita Preininger (2016)
Alex Small (2016)
Lise Thomas (2014)
Nagarajan Vaidehi (2014)
Francis Valiyaveetil (2015)

Finance
Paul Axelsen, Chair (2017)
Carol Beck (2016)
Robert Nakamoto (2015)
Lawrence Prochaska (2015)
Francisco Bezanilla, ex officio
Lukas Tamm, ex officio
Da-Neng Wang, ex officio

International Relations
Felix Goñi, Chair (2016)
Antonio Jose Costa-Filho (2016)
Alberto Diaspro (2014)
Jose Grigera (2016)
Renzhi Han (2014)
Kalina Hristova (2016)
Carolyn Moores (2014)
Xiangyun Qiu (2016)
Eitan Reuveny (2015)
Khalid Salaita (2016)
Frances Separovic (2014)
Xin-Ming Shen (2016)
Abhinav Verma (2015)

Membership
Erin Sheets, Chair (2015)
Jim Cole (2016)
Robert Dempski (2016)
Michael Fried (2016)
Michael Grabe (2014)
Vasanthi Jayaraman (2014)
Douglas Swank (2015)
Lukas Tamm, ex officio

Member Services (MSC)
Lukas Tamm, Chair (2015)
Felix Goñi (2016)
Richard Ludescher (2014)
Prithwish Pal (2016)
Rajini Rao (2015)
Sandy Ross (2015)
Erin Sheets (2015)

Minority Affairs (MAC)
Sandy Ross, Chair (2015)
Jose Arguello (2016)
Silvia Cavagnero (2016)
Candice Etson (2016)
Monica Fernandez-Sierra (2016)
Angel Garcia (2015)
Ruben Gonzalez (2016)
Alemayehu Gorfe (2015)
Princess Imoukhuede (2015)
Michael Jarstfer (2015)
Barry R. Lentz (2014)
Luis Marky (2015)
Ishita Mukerji (2015)
Ivan Rasnik (2016)
Chandran Sabanayagam (2016)
Santiago Schnell (2016)
Ana-Maria Soto (2014)
Kandice Tanner (2016)

Nominating for 2014 Slate
Gail Robertson, Chair
Wah Chiu
Samantha Harris
Vasanthi Jayaraman
David Piston, Past Chair
Jane Richardson, ex officio

Professional Opportunities for Women (CPOW)
Rajini Rao, Chair (2015)
Tharin Blumenschein (2014)
Danielle Dalafave (2015)
Carmen Domene (2016)
Susan Gillmor (2015)
Teresa Giraldez (2016)
Dorit Hanein (2015)
Samantha Harris (2015)
Ryan Hoffman (2016)
Joe Mindell (2016)
Thao Nguyen (2015)
Gabriela Popescu (2016)
Elizabeth Sacho (2016)
Akansha Saxena (2015)
Emily Smith (2016)
Yuhua Song (2015)
Liskin Swint-Kruse (2016)
Lipi Thukral (2014)
Claire Townsend (2016)

Program Committee 2013 Annual Meeting
Jody Puglisi, Chair
Karen Fleming
Laura Finzi
Angela Gronenborn
Peter Hinterdorfer
Brian Kobilka
Tanja Kortemme
Sharona Gordon, Past Co-Chair
William Zagotta, Past Co-Chair

Program Committee 2014 Annual Meeting
Robert Nakamoto, Chair
Karen Fleming
Rebecca Heald
Peter Hinterdorfer
Linda Kenney
Tanja Kortemme
Carol Robinson
Emad Tajkhorshid
Claudia Veigel
Jody Puglisi, Past Chair

Publications
Da-Neng Wang, Chair (2015)
Olaf Andersen (2016)
Ivet Bahar (2015)
Carol Deutsch (2016)
William Hancock (2016)
Leslie Satin (2014)
Dierk Thomas (2016)
Bill Zagotta (2016)
Paul Axelsen, ex officio

Public Affairs
Edward H. Egelman, Chair (2015)
Steven M. Block (2014)
Jenna Campbell (2016)
Timothy A. Cross (2015)
Yale E. Goldman (2015)
Kathleen Hall (2015)
Eric Jakobsson (2015)
Vasanthi Jayaraman (2016)
Suhrud Rajguru (2014)
Suzanne Scarlata (2014)
Tara Schwetz (2015)
Taner Z. Sen (2014)
Ragothaman Yennamalli (2016)
Harel Weinstein (2015)
Lukas Tamm, ex officio
Pancho Bezanilla, ex officio

Thematic Meetings
Richard Aldrich, Chair (2015)
Jane Dyson (2014)
Edward Egelman (2015)
Sharona Gordon (2014)
Vincent Hilser (2016)
Miguel Holmgren (2016)
Linda Kenney (2016)
Tanja Kortemme (2016)
David Millar (2014)
Ming Zhou (2016)
Robert Nakamoto, ex officio

Subgroups

Bioenergetics
Jan Hoek, Co-Chair (2014)
Gyorgy Hajnoczky, Co-Chair (2014)

Biological Fluorescence
Joachim Mueller, Chair (2014)

Biopolymers in vivo
Lila Gierasch, Chair (2014)

Exocytosis & Endocytosis
Elizabeth Seward, Chair (2014)

Intrinsically Disordered Proteins
Ashok Deniz, Chair (2014)

Mechanobiology
Linda Kenney, Chair (2014)

Membrane Biophysics
Henry Colecraft, Chair (2014)

Membrane Structure & Assembly
Felix Goñi, Chair (2014)

Molecular Biophysics
Mari DeMarco, Chair (2014)

Motility
Stefan Diez, Co-Chair (2014)
Samantha Reck-Peterson, Co-Chair (2014)

Nanoscale Biophysics
Victoria Birkedal, Chair (2014)

Permeation & Transport
Dirk Gillespie, Chair (2014)

Future Meetings

2014
San Francisco, California
February 15–19

2015
Baltimore, Maryland
February 7–11

2016
Los Angeles, California
February 27–March 2

2017
New Orleans, Louisiana
February 11–15

2018
San Francisco, California
February 17-21

Past Officers

President
1958-1960 Robley C. Williams
1960-1961 Ernest C. Pollard
1961-1962 Max A. Lauffer
1962-1963 J. Lawrence Oncley
1963-1964 Kenneth S. Cole
1964-1965 Richard Roberts
1965-1966 Thomas F. Anderson
1966-1967 Alan C. Burton
1967-1968 Dean Cowie
1968-1969 Manuel Morales
1969-1970 Richard B. Setlow
1970-1971 Robert L. Sinsheimer
1971-1972 Fred Snell
1972-1973 Frederic M. Richards
1973-1974 Peter H. von Hippel
1974-1975 Andrew G. Szent-Gyorgyi
1975-1976 Michael Beer
1976-1977 Thomas E. Thompson
1977-1978 Jane K. Setlow
1978-1979 George Eisenman
1979-1980 Charles Tanford
1980-1981 Margaret O. Dayhoff
1981-1982 Lee D. Peachey
1982-1983 William A. Hagins
1983-1984 V. Adrian Parsegian
1984-1985 Gary Ackers
1985-1986 Joseph F. Hoffman
1986-1987 Stuart G. McLaughlin
1987-1988 Victor A. Bloomfield
1988-1989 Robert M. Stroud
1989-1990 Sidney Fleischer
1990-1991 Barry Honig
1991-1992 Donald L. D. Caspar
1992-1993 Thomas D. Pollard
1993-1994 Norma M. Allewell
1994-1995 Ralph G. Yount
1995-1996 Lila M. Gierasch
1996-1997 Stephen H. White
1997-1998 Clare K. Woodward
1998-1999 Ken A. Dill
1999-2000 Jonathan A. King
2000-2001 Christopher Miller
2001-2002 Mary D. Barkley
2002-2003 Wilma K. Olson
2003-2004 Yale E. Goldman
2004-2005 Stephen C. Harvey
2005-2006 Steven M. Block
2006-2007 Barry R. Lentz
2007-2008 Joseph J. Falke
2008-2009 Harel Weinstein
2009-2010 Henry Lester
2010-2011 Peter B. Moore
2011-2012 Richard Aldrich
2012-2013 Jane Richardson

Secretary
1958-1963 Samuel A. Talbot
1963-1967 William Sleator
1967-1971 William A. Brodsky
1971-1979 Margaret O. Dayhoff
1979-1987 Winona C. Barker
1987-1995 Stephen H. White
1995-1999 Sarah Hitchcock-DeGregori
1999-2003 Jill Trewhella
2003-2007 Ruth A. Altschuld
2007-2011 Dorothy Beckett

Treasurer

1958-1962 Ralph W. Stacy
1962-1970 Irving Gray
1970-1979 John B. Wolff
1979-1983 Elizabeth W. Stephenson
1983-1997 Richard W. Lymn
1987-1995 Robert B. Gunn
1995-1999 David W. Deamer
1999-2003 Antonio Scarpa
2003-2009 Mordecai Blaustein
2009-2013 Linda Kenney

Past Executive Board Members

The list of past Executive Board members has been reconstructed from various Society documents. However, some of the old records are incomplete. Over the years, the Constitution has been amended to change the number of Executive Board members and the length of their terms.

1958/59
Max A. Lauffer
Ernest C. Pollard
Walter A. Rosenblith
Otto H. Schmitt
Arthur K. Solomon
H. Burr Steinbach

1959/60
Thomas F. Anderson
Max A. Lauffer
J. Lawrence Oncley
Walter A. Rosenblith
Arthur K. Solomon

1960/61
Kenneth S. Cole
Frank Brink, Jr.
J. Lawrence Oncley
Walter A. Rosenblith
Robley C. Williams

1961/62
Frank Brink, Jr.
Kenneth S. Cole
Ernest C. Pollard
Richard Roberts
Robert L. Sinsheimer

1962/63
Records incomplete

1963/64
Frank Brink, Jr.
J. Lawrence Oncley
Robley C. Williams
Raymond Zirkle

1964/65
Philip Abelson
Edward MacNichol, Jr.
J. Lawrence Oncley
Otto H. Schmitt
Fred M. Snell

1965/66
Roy Britten
Harold Morowitz
J. Lawrence Oncley
Otto H. Schmitt
Raymond Zirkel

1966/67
Roy Britton
Karl Frank
John Moore
Richard Setlow
Fred M. Snell

1967/68
Philip Abelson
Norman Anderson
Roy Britton
Howard Mel
Fred M. Snell

1968/69
David E. Green
John W. Moore
John R. Platt
Richard Podolsky
Fred M. Snell

1969/70
Michael Beer
Philip C. Hanawalt
Lorin J. Mullins
William W. Sleator
Robert B. Uretz

1970/71
Michael Beer
Philip C. Hanawalt
Daniel C. Tosteson
Lorin J. Mullins
Robert B. Uretz

1971/72
Michael Beer
Max A. Lauffer
Daniel C. Tosteson
Peter H. von Hippel
Annemarie Weber

1972/73
George Eisenman
Gary Felsenfeld
Max A. Lauffer
Lester Packer
Annemarie Weber

1973/74
Alice Burton
Frederick A. Dodge, Jr.
William F. Harrington
Alfred Strickholm
Thomas E. Thompson

1974/75
Marie M. Cassidy
Frederick A. Dodge, Jr.
V. Adrian Parsegian
Clifford S. Patlak
Thomas E. Thompson

1975/76
Lawrence B. Cohen
Daphne Hare
William F. Harrington
Paul O. P. Ts'o
David A. Yphantis

1976/77
Warren L. Butler
Roderick K. Clayton
John Gergely
Daphne Hare
Kensal E. Van Holde

1977/78
Charles P. Bean
Sonja Krause
Lee D. Peachey
Robley C. Williams, Jr.
David A. Yphantis

1978/79
Charles P. Bean
Barbara A. Hamkalo
Audrey E. V. Haschemeyer
Lee D. Peachey
Thomas D. Pollard

1979/80
Records incomplete

1980/81
Victor A. Bloomfield
Susan Lowey
Lester Packer
Richard Podolsky
John B. Wolff

1981/82
Cecilia Hidalgo
Stuart G. McLaughlin
Richard Podolsky
Stephen H. White
John B. Wolff

1982/83
Rhoda Blostein
Joseph F. Hoffman
Stuart G. McLaughlin
Antonio Scarpa
Stephen H. White

1983/84
Francisco Bezanilla
Barbara Brodsky
Robert S. Eisenberg
Stuart G. McLaughlin
Elizabeth W. Stephenson

1984/85
Francisco Bezanilla
Barbara Brodsky
Robert S. Eisenberg
Elizabeth W. Stephenson
Watt W. Webb

1985/86
Francisco Bezanilla
Robert S. Eisenberg
Sidney Fleischer
Avril Somlyo

1986/87
Sidney Fleischer
Christopher Miller
Jane S. Richardson
Avril Somlyo

1987/88
Christopher Miller
Peter L. Pedersen
Jane S. Richardson
Brian M. Salzberg

1988/89
Peter L. Pedersen
Thomas D. Pollard
Brian M. Salzberg
Martha M. Teeter

1989/90
Norma M. Allewell
Sarah E. Hitchcock-DeGregori
Thomas D. Pollard
Martha M. Teeter

1990/91
Norma M. Allewell
Judith Herzfeld
Sarah E. Hitchcock-DeGregori
Lee Makowski

1991/92
Yale E. Goldman
Judith Herzfeld
Lee Makowski
Clare K. Woodward

1992/93
Mary D. Barkley
Ken A. Dill
Yale E. Goldman
Clare K. Woodward

1993/94
Mary D. Barkley
Ken A. Dill
Jack H. Kaplan
Wilma K. Olson

1994/95
Jack H. Kaplan
Henry A. Lester
Wilma K. Olson
Jill Trewhella

1995/96
Steven M. Block
Henry A. Lester
Jill Trewhella
David M. Warshaw

1996/97
Steven M. Block
W. Jonathan Lederer
Madeline A. Shea
David M. Warshaw

1997/98
Donald M. Bers
W. Jonathan Lederer
Richard L. Moss
Madeline A. Shea

1998/99
Donald M. Bers
Meredith Bond
Richard L. Moss
Barbara Seaton

1999/2000
Meredith Bond
William A. Cramer
Barbara Seaton
Steven A. Siegelbaum

2000/01
William A. Cramer
Joseph J. Falke
Steven A. Siegelbaum
Brian M. Salzberg

2001/02
Dorothy Beckett
David DeRosier
Joseph J. Falke
Brian M. Salzberg

2002/03
Dorothy Beckett
David DeRosier
Cristobal G. dos Remedios
Stephen C. Harvey

2003/04
Cristobal G. dos Remedios
Stephen C. Harvey
Eva Nogales
Liga G. Toro de Stefani

2004/05
Justin Molloy
Eva Nogales
Ligia G. Toro de Stefani
Clara Franzini-Armstrong

2005/06
Clara Franzini-Armstrong
Linda Kenney
Justin E. Molloy
Frederick Sachs

2006/07
Linda J. Kenney
David P. Piston
Frederick Sachs
Suzanne Scarlata

2007/08
Paul Axelsen
Rajini Rao
Suzanne Scarlata
Jennifer Lippincott-Schwartz

2008/09
Paul Axelsen
David Dawson
Jennifer Lippincott-Schwartz
Lynne J. Regan

2009/10
David Dawson
Susan Gilbert
Lynne J. Regan
Catherine A. Royer

2010/11
Olaf Andersen
Ivet Bahar
Susan Gilbert
Catherine A. Royer

2011/12
Olaf Andersen
Ivet Bahar
Laura Finzi
Vasanthi Jayaraman

2012/13
Laura Finzi
Karen Fleming
Taekjip Ha
Vasanthi Jayaraman

Past Council Members

(Council members serve for three years.)

Term Ending 1958
Francis D. Carlson
Kenneth S. Cole
H. K. Hartline
Max A. Lauffer
Cyrus Levinthal
Ernest C. Pollard
Eugene I. Rabinowitch
Cornelius A. Tobias

Term Ending 1959
N. R. Rashevsky
Alexander Rich
Richard Roberts
Walter A. Rosenblith
Francis O. Schmitt
Arthur K. Solomon
H. Burr Steinbach
Raymond E. Zirkle

Term Ending 1960
Thomas F. Anderson
Seymour Benzer
Melvin Calvin
Francis D. Carlson
J. Lawrence Oncley
Alexander Rich
H. Burr Steinbach

Term Ending 1961
H. K. Hartline
Max A. Lauffer
Theodore T. Puck
Walter A. Rosenblith
Francis O. Schmidtt
Cornelius A. Tobias
Raymond E. Zirkel

Term Ending 1962
Britton Chance
Kenneth S. Cole
John C. Kendrew
Cyrus Levinthal
Eugene I. Rabinowitch
Otto H. Schmitt
Arthur K. Solomon

Term Ending 1963
Seymour Benzer
Melvin Calvin
Francis D. Carlson
Arne Engstrom
Manuel Morales
J. Lawrence Oncley
Robert L. Sinsheimer

Term Ending 1964
Richard S. Bear
Alan C. Burton
Dean Cowie
Alan J. Hodge
Alexander Rich
Alexander Sandow
Herman P. Schwan

Term Ending 1965
Philip Abelson
Alexander Hollaender
Aaron Novick
Francis O. Schmitt
Fred M. Snell
David Waugh
Robley C. Williams

Term Ending 1966
E. Peter Geiduschek
John Kendrew
Max A. Lauffer
Cyrus Levinthal
Ernest C. Pollard
Otto H. Schmitt
Raymond E. Zirkle

Term Ending 1967
Ellis Bolton
Herman Branson
David Davies
Karl Frank
Edward F. MacNichol
Richard B. Setlow
Fritiof S. Sjostrand

Term Ending 1968
Norman G. Anderson
Roy J. Britten
Humberto Fernandez-Moran
David E. Goldman
Josiah Macy, Jr.
Alexander Mauro
Harold J. Morowitz

Term Ending 1969
Howard Mel
John W. Moore
John R. Platt
Theodore T. Puck
Alexander Rich
Frederic M. Richards
Cornelius A. Tobias

Term Ending 1970
Philip H. Abelson
Irving M. Klotz
Wilfried H. M. Mommaerts
Richard J. Podolsky
Harold A. Sheraga
William Sleator
Charles A. Thomas

Term Ending 1971
Michael Beer
Norman A. Coulter
David E. Green
Rita Guttman
Shinya Inoue
Lorin J. Mullins
David A. Yphantis

Term Ending 1972
James F. Bonner
Isidore S. Edelman
Philip C. Hanawalt
Albert L. Lehninger
Ernest C. Pollard
Walter A. Rosenblith
Robert B. Uretz

Term Ending 1973
Peter F. Curran
Gary Felsenfeld
Terrell L. Hill
Raymond A. Sjodin
Daniel C. Tosteson
Peter H. von Hippel
Annemarie Weber
Gregorio Weber

Term Ending 1974
Gary K. Ackers
William A. Brodsky
Norman Davidson
George Eisenman
Robert Langridge
Aser Rothstein
Andrew G. Szent-Gyorgyi
Replaced by Josef Eisinger

Term Ending 1975
Bernard C. Abbott
Alice Jean Burton
J. Woodland Hastings
Lester Packer
Clifford S. Patlak
Thomas E. Thompson
H. Ti Tien

Term Ending 1976
David R. Davies
Helen Eberle
Rita Guttman
William F. Harrington
Jane K. Setlow
Alfred Strickholm
Gordon F. Whitmore

Term Ending 1977
Ludwig Brand
Warren L. Butler
Marie M. Cassidy
Gerald D. Fasman
Daphne Hare
V. Adrian Parsegian
Howard Pattee, Jr.

Term Ending 2003
Dorothy Beckett
Diana J. Bigelow
Franco B. Conti
Timothy A. Cross
Cristobal G. dos Remedios
Edward H. Egelman
Jeff Gelles

Term Ending 2004
Mordecai P. Blaustein
Susan L. Hamilton
James M. Hogle
James C. Lee
David H. MacLennan
Carol B. Post
Ligia G. Toro de Stefani

Term Ending 2005
Robert M. Clegg
Julio M. Fernandez
Linda J. Kenney
Barry R. Lentz
Justin Molloy
Eva Nogales
Lukas K. Tamm

Term Ending 2006
Stephen M. Baylor
Christopher L. Berger
Clara F. Franzini-Armstrong
Sharona E. Gordon
Elizabeth A. Komives
Eduardo Rios
Frederick Sachs

Term Ending 2007
Richard G. Brennan
Eric Jakobsson
Stephen L. Mayo
Tobias Meyer
Diane M. Papazian
Paul R. Selvin
Lynmarie K. Thompson

Term Ending 2008
Paul Axelsen
Kathleen Hall
Ben de Kruijff
Nils O. Petersen
Ruth Nussinov
Suzanne F. Scarlata
R. John Solaro

Term Ending 2009
Ana Maria Gomez
Steven Gross
Dorothee Kern
David W. Piston
Rajini Rao
Lynne Regan
Gregory D. Reinhart

Term Ending 2010
Valerie Daggett
David Dawson
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Year	Location	Program Committee Chair	Local Arrangements Committee Chair
1957	Columbus, Ohio	Samuel A. Talbot	Kenneth S. Cole, Otto H. Schmitt, Ralph W. Stacy, Herman P. Schwan, Ernest C. Pollard
1958	Cambridge, Massachusetts	Cyrus Levinthal	Arthur K. Solomon
1959	Pittsburgh, Pennsylvania	H. Burr Steinbach, Raymond E. Zirkle	Martin Hanig

Year	Location	Program Committee Chair	Local Arrangements Committee Chair	
1960	Philadelphia, Pennsylvania	Otto H. Schmitt	Herman P. Schwan	
1961	St. Louis, Missouri	J. Lawrence Oncley	William Sleator	
1962	Washington, DC	Robert L. Sinsheimer	Dean Cowie	
1963	New York, New York	Fred M. Snell	Alexander Mauro	
1964	Chicago, Illinois	Raymond E. Zirkle	Robert B. Uretz	
1965	San Francisco, California	Richard B. Setlow	Howard Mel	
1966	Boston, Massachusetts	Francis D. Carlson	Jordan Baruch	
1967	Houston, Texas	David E. Goldman	Arthur Cole	
1968	Pittsburgh, Pennsylvania	Howard Mel	Irwin Bendet	
1969	Los Angeles, California	Richard J. Podolsky	Verne N. Schumaker	
1970	Baltimore, Maryland	Harold A. Scheraga	Raymond A. Sjodin	
1971	New Orleans, Louisiana	Philip C. Hanawalt	Edward S. Hyman	
1972	Toronto, Canada	Michael Beer	Gordon Whitmore	
1973	Columbus, Ohio	Gary Felsenfeld	Leo Lipetz	
1974	Minneapolis, Minnesota			(Joint Meeting with ASCB)
1975	Philadelphia, Pennsylvania	J. Woodland Hastings	Joseph M. Higgins	
1976	Seattle, Washington	Lee D. Peachey	Albert M. Gordon	
1977	New Orleans, Louisiana	George Eisenman	Edward S. Hyman	
1978	Washington, DC	James W. Longworth	William A. Hagins	(Joint Meeting with APS)
1979	Atlanta, Georgia	Donald L.D. Caspar	Robert L. DeHaan	
1980	New Orleans, Louisiana	Rhoda Blostein	Edward S. Hyman	(Joint Meeting with ASCB)
1981	Denver, Colorado	V. Adrian Parsegian	`David E. Pettijohn	
1982	Boston, Massachusetts	Gary K. Ackers	Ramon Latorre	
1983	San Diego, California	Donald M. Engelman	Mauricio Montal	
1984	San Antonio, Texas	Ralph Nossal	Robert Renthal	
1985	Baltimore, Maryland	Stephen H. White	Eaton E. Lattman	
1986	San Francisco, California	Neville R. Kallenbach	Alan Bearden	
1987	New Orleans, Louisiana	Barry Honig	Edward S. Hyman	
1988	Phoenix, Arizona	Bennie R. Ware	Robert E. Blankenship	
1989	Cincinnati, Ohio	Roger Cooke	Arnold Schwartz, David P. Siegel	
1990	Baltimore, Maryland	Peter L. Pedersen	Maria Correa-Freire, L. Mario Amzel	
1991	San Francisco, California	Lila M. Gierasch	Don Eden	
1992	Houston, Texas	Lee Makowski	George N. Phillips, Jr.	(Joint Meeting with ASBMB)
1993	Washington, DC	Robert S. Adelstein	Robert Horowits	
1994	New Orleans, Louisiana	Judith Herzfeld	Edward S. Hyman	
1995	San Francisco, California	Christopher Miller	Roger Cooke	
1996	Baltimore, Maryland	William A. Cramer	L. Mario Amzel	
1997	New Orleans, Louisiana	Jack H. Kaplan	Samuel J. Landry	
1998	Kansas City, Missouri	Mary D. Barkley	Harvey F. Fisher, Elizabeth Rowe	
1999	Baltimore, Maryland	Steven M. Block	L. Mario Amzel	
2000	New Orleans, Louisiana	Steven A. Siegelbaum	Samuel J. Landry	
2001	Boston, Massachusetts	Joseph J. Falke	James Head/Barbara Seaton	
2002	San Francisco, California	Meredith Bond		
2003	San Antonio, Texas	Edward H. Egelman		
2004	Baltimore, Maryland	Timothy A. Cross		
2005	Long Beach, California	David P. Millar		
2006	Salt Lake City, Utah	Jeff Gelles		
2007	Baltimore, Maryland	Felix Goñi		
2008	Long Beach, California	Eduardo Perozo, Benoit Roux		(Joint Meeting with IUPAB)
2009	Boston, Massachusetts	David M. Warshaw, Ming-Ming Zhou		
2010	San Francisco, California	Taekjip Ha		
2011	Baltimore, Maryland	Jamie Williamson		
2012	San Diego, California	Sharona Gordon, William Zagotta		
2013	Philadelphia, Pennsylvania	Joseph Puglisi		

Past National Lecturers

1969
The Study of Macromolecules by Fluorescence Methods
Gregorio Weber

1970
Phycomyces, Work in Progress
Max Delbruck

1971
Inhibitory Interaction in the Retina of Limulus
H. K. Hartline

1972
Mapping Active Sites of Enzymes by Magnetic Resonance Methods
Mildred Cohn

1973
The Structure and Biosynthesis of Closed Circular DNA
Jerome Vinograd

1974
Mapping Genetic Sequences by Electron Microscopy
Norman Davidson

1975
The Molecular Biology of Brain Cell Interactions
Francis O. Schmitt

1976
Actomyosin ATPase and the Mechanism of Muscle Contraction
Edwin W. Taylor

1977
Neurogenetics of Behavior in Drosophila
Seymour Benzer

1978
Astronomy and Biology: Some Connections
Carl Sagan

1979
The Golden Age of Cell Biology: Its Origins and Its Future
Keith Porter

1980
Science and the American Future
Philip Handler

1981
Structure and Motion in Proteins
Frederic M. Richards

1982
Cell Adhesion Molecules
Gerald M. Edelman

1983
Bacterial Photosynthesis
George Feher

1984
Mechanisms of Protein Integration into Membranes
Günter Blobel

1985
Switching in Protein Assemblies
Donald L. D. Caspar

1986
Leeuwenhoek, Huygens, and the Future of Biophysics
Shinya Inoue

1987
Light and Life
Lubert Stryer

1988
Electrophoresis of DNA
Bruno Zimm

1989
Exploring How Viruses Initiate Infections and How the Immune System Responds Using Molecular Biophysics
Don C. Wiley

1990
Molecular Tools to Elucidate Problems in Excitation–Contraction Coupling
David H. MacLennan

1991
Molecular Dynamics: Its Role in Biophysics
Martin Karplus

1992
Looking at Proteins
Jane S. Richardson

1993
Recognition of DNA by Zinc-Finger and Other Proteins Involved in the Regulation of Gene Expression
Aaron Klug

1994
Flexing and Folding the DNA Double Helix
Wilma K. Olson

1995
Mechanism of Action of a Molecular Motor
James A. Spudich

1996
Protein Folding: A Very Simple Perspective
Ken A. Dill

1997
Diphtheria Toxin and Domain Swapping: A Strange Biophysical Tail
David Eisenberg

1998
The Structural Basis of Protein Folding and Misfolding
Christopher M. Dobson

1999
Protein Folding and Human Disease
Jeffery W. Kelly

2000
Structure and Dynamics of Camp-dependent Protein Kinase
Susan Taylor

2001
Structure Isn't Everything But it Sure Helps
Brian W. Matthews

2002
Multiphoton Imaging the Molecular Dynamics of Living
Watt W. Webb

2003
From Protein Structure to Biological Function and Evolution
Janet Thornton

2004
Atomic Basis of Ion Channel Function
Roderick MacKinnon

2005
Cryo-Electron Microscopy of the Ribosome: Glimpses of a Molecular Machine in Motion
Joachim Frank

2006
Probing Nature's Nanoscale Machines with Microscale Probes
Kazuhiko Kinosita, Jr.

2007
Ion Pumping by Ca-ATPase of the Sarcoplasmic Reticulum – A Structural View
Chikashi Toyoshima

2008
The Molecular Basis of Eukaryotic Transcription
Roger Kornberg

2009
Proteins in Action: Dynamics during Catalysis and Signaling
Dorothee Kern

2010
Breeding and Building Molecules to Spy on Cells in Health and Disease
Roger Tsien

2011
Chaperonin-Mediated Protein Folding
Arthur L. Horwich

2012
Shedding Light on Single Molecules
Steven M. Block

2013
The Making and Breaking of Nucleosomes
Karolin Luger

Past Symposia Chairs & Topics

1958
Microsomal Particles and Protein Synthesis
Richard Roberts

Muscle
Andrew G. Szent-Gyorgyi

Review Papers by T. Puck, G. von Bekesy, and A.L. Hodgkin
Andrew G. Szent-Gyorgyi

1959
Formulation and Characterization of Antibodies
Edwin S. Lennox

Sensory Receptor Mechanisms
Floyd M. Beidler

1960
Biological Codes, Data Processing, and Self Organizing Systems
Otto H. Schmitt

Emerging Problems in Biophysics
D. Griffin

Structure of Bacteriophages in Relation to Function
Thomas F. Anderson

1961
Mutagenesis
H.J. Muller

High Speed Computation Techniques in Biophysics Research
Ralph W. Stacy
Antonio Borsellino
Jack Dainty

Membrane Transport
Fred M. Snell

1962
Excited State and Photobiology
Alexander Hollaender

Biological Replication
Francis Crick

Statics and Dynamics in Biological Systems
Alan C. Burton

1963
The Structure of Water, Proteins, and Viruses
George Scatchard

Non-Muscular Contractions in Biological Systems
Teru Hayashi

Control Mechanisms in Biological Systems
Harry Nyquist

1964
Macromolecular Aspects of Radiation Action on Cells
Henry S. Kaplan

Organization and Development of Decision Processes in the Central Nervous System
John R. Platt

New Approaches to Electron-Microscopic Resolution at the Atomic Level
Thomas F. Anderson

1965
Information Transfer in Biological Systems, I
Max Delbruck

Information Transfer in Biological Systems, II
Cornelius A. Tobias

Evolution and Exobiology
Harold J. Morowitz

1966
Membrane Structure
J.F. Danielli

New Methods and Techniques in Biophysical Research
Norman Davidson

Muscular Contraction
Douglas R. Wilkie

1967
Biophysical Aspects of Marine Biology
William J. Adelman, Jr.

Some Mechanical Problems in Biology
A. Pharo Gagge

Ion Specificity in Biological Systems
George Eisenman

1968
Biological Control, I
James Bonner

Biological Control, II
Richard Roberts

Recent Advances in Optics and Visualization of Biological Structure
R.F.W. Pease

1969
Biological Assembly and Determination of Form
Robert Edgar

Physiological Function at the Molecular Level
Andrew G. Szent-Gyorgyi

Information Storage and Retrieval in the Brain
Leon Harmon

Nuclear Transplantation and Genetic Manipulation
John R. Platt

1970
Biological Aspects of Protein and Nucleic Acid Interaction
M. Nomura

Ion Transport in Bilayers and Biological Membranes
Thomas E. Thompson

Instrumental Advances in Biophysics
Michael Beer

1971

Molecular Neurobiology
Gunther Stent

"Teach-In" General Lectures
Philip C. Hanawalt

Biological Control Systems
John H. Milsom

1972

Current Topics in Neuromuscular Research
John E. Dowling

Genetic Approaches to Development
Michael Beer

1973

Cellular Regulatory Mechanisms
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Recent Developments in Membrane Research
Warren S. Rehm

1974

Aharon Katchalsky Memorial: Thermodynamics of Living Systems
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Genome Organization in Higher Organisms
Donald D. Brown

Blood Cell Differentiation
Anthony Cerami
Edward Reich

Macromolecular Structure
Michael G. Rossmann

Membrane Structure and Assembly
Phillips W. Robbins

Environmental Chemical Carcinogens
Bruce N. Ames

Biological Energy Transductions
Paul D. Boyer

Contractile Systems
Andrew G. Szent-Gyorgyi

Mechanisms and Control of Gene Expression
Joan Argetsinger Steitz

Neurotransmitters
Bernard W. Agranoff

Primary Photochemical Processes of Photosynthesis
Warren L. Butler

Cascade Processes
Robert L. Hill

1975

Bioluminescence
J. Woodland Hastings

Biological Oscillators
Arthur Winfree

A Close Look at Synaptic Events
Edward A. Kravitz

1976

Probes of Membrane Structures
Lee D. Peachey

Biophysics of the Cell Surface
Frederic M. Richards

Biological Applications of Raman Spectroscopy
Aaron Lewis

1977

Intramolecular Motion in Proteins
Frederic M. Richards

Molecular Motion in Gene Expression
Charles R. Cantor

Ionic Motion and Gating in Biological and Artificial Channels
George Eisenman

1978

Molecular Structure of Macromolecular Assemblies
Kensal E. Van Holde

Biophysics of Bacterial Chemotaxis
Charles P. Bean

Primary Reactions in Photosynthesis
Henri Merkelo

Cell-Cell Interactions in Higher Nervous Tissue
Cyrus Levinthal

Transduction of Ions in Cells and Organelles
Sunney I. Chan

Biological Applications of Synchrotron Radiation
Gilda H. Loew

Fundamental Interactions of Environmental Intoxicants
W. E. Blumberg
Josef Eisinger

Primary Events in Radiation Biology
W. Schimmerling

Molecular Movement on Cell Surfaces
Watt W. Webb

Magnetic Circular Dichroism: Biophysical Applications
John C. Sutherland

Ultra High-Resolution Electron Microscopy
M. Fotino

Atoms and Molecules Tunnelling in Biological Systems
J. J. Hopfield

1979

Cellular Receptors and Perception
Walther Stoeckenius

Cellular Communication
Daniel Goodenough

Cellular Motility
Edwin Taylor

1980

Structural and Conformational Transitions in Energy Transducing Membrane Proteins
Jacqueline A. Reynolds

Mechanisms of Intracellular Protein Breakdown
Irwin A. Rose

Na, K-ATPase Transport Mechanism
Joseph F. Hoffman

Neuropeptides-Processing and Neurophysiological Action
Jeffrey L. Barker

Voltage-Dependent Channels in Excitable Tissues
Bertil Hille

Transduction of Biochemical Signals
Julius Axelrod

Spatial Control of Differentiation
R. Kevin Hunt

Regulation of Phosphorylation
Ora M. Rosen

1981

Nucleic Acid Sequences: Determination, Description and Expression
Jane K. Setlow

The Control of Cell Form
Lee D. Peachey

Noise Measurements as a Probe of Ionic Conductance
Charles F. Stevens

1982

Molecular Structure of the Cytoplasmic Matrix
Thomas D. Pollard

Molecular Aspects of the Control of Genome Expression
Peter H. von Hippel

Statistical Thermodynamics in Biology
Rodney L. Biltonen

Bioenergetics: From Molecules to Mitochondria
C.P. Lee

Sources of Cooperative Energy in Human Hemoglobin I
John T. Edsall

Sources of Cooperative Energy in Human Hemoglobin II
Frank R.N. Gurd

Ion Channels
Christopher Miller

Linked Functions in Proteins
Norma M. Allewell

Boundary Lipid
David D. Thomas

1983

Biomedical Applications of Nuclear Magnetic Resonance
Paula T. Beall

Biological Membrane Structure
S. J. Singer

Excitable Membrane Ionic Channels: Towards the Molecular Mechanisms
Toshio Narahashi

Internal Dynamics of Proteins, Nucleic Acids and Membranes
Attila Szabo

Structural Variability of Nucleic Acids
Bruno Zimm

The Use of Neutrons in Structural Biology
B.P. Schoenborn

Intracellular Hormonal Control of Cell Function
Paul A. Liebman

1984

Biophysical Design in Biotechnology
Victor A. Bloomfield

Computer Graphics
Robert M. Stroud

Processing in the Fine Processes of the Nervous System
Robert S. Eisenberg
Brian M. Salzberg

Systematic Mechanical Activity of Nonmuscle Cells
Ralph Nossal
Watt W. Webb

Molecular Aspects of Regulation in Photoreceptors
Nancy W. Downer

Optical Studies of Muscle
Ronald J. Baskin
Yin Yeh

Electrophysiology of Epithelial Transport
Ernest M. Wright

1985

Tutorial: Insertion of Proteins into Membranes
V. Adrian Parsegian

Conformation Flexibility in Proteins
Barry Honig

Calcium Signals in Muscle
Robert Eisenberg

Neuronal Integral Membrane Proteins
Bertil Hille
Charles F. Stevens

Biophysics of Development of Structural Patterns in Organisms
Scott Fraser

Muscle Contraction: Frontiers and Controversies
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Intracellular Signaling
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Electrophysiological Approaches to Endocrine Function
(Sponsored Jointly with the Society of General Physiologists)
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Barbara Brodsky

Biophysical Basis of Eye Structure and Transparency
Nancy Tooney

1986

Solvation Phenomena in Biopolymer Systems
David Chandler

Molecular Biophysics of Sensory Phenomena
Lubert Stryer

New Dimensions in NMR of Macromolecules
David E. Wemmer

Biophysics of Transduction in Taste and Olfaction
Sheella Mierson

Applications of Molecular Biology to Active Transport
H. R. Kaback

Interactions in Supramolecular Assemblages
Wayne A. Hendrickson

Internal Transmitter Mechanisms in Retinal Rods
Denis A. Baylor

Protein Folding
Robert L. Baldwin

1987

Structure and Function of Ionic Channels & Pumps I & II
Olaf Anderson
Clay Armstrong

Forces in Protein Structure and Function
David Eisenberg

Fibrous Protein Interactions
Jane Koretz

Probing DNA Sites and Structures
Jacqueline Barton

Motion and Target Location: From Molecules to Cells
Peter H. von Hippel

Intracellular Signalling
Joel Brown

Mechanism of Cross-Bridge Action in Muscle Contraction
Roger Cooke

1988

Rhodopsin and Bacteriorhodopsin
Robert R. Birge

Membrane Receptors and Channels: Biophysical Approaches
Bianca Conti-Tronconi

Chemical Dynamics of Cytoplasm
D. Lansing Taylor

Smooth Muscle Contractility
James R. Sellers

New Directions in DNA Electrophoresis
Charles R. Cantor

NMR Spectroscopy and Imaging: Biophysical Studies of Living Systems
(Presented in conjunction with the Division of Biological Physics, APS)
M. Joan Dawson

Understanding the Structures of DNA
Wilma K. Olson

Special Symposium: Women in Biophysics, the Dayhoff Awardees
Anne Walter

Specificity of Drug-Nucleic Acid Interactions
Jonathan B. Chaires
James C. Dabrowiak

Invertebrate Oxygen-Binding Proteins
Serge N. Vinogradov

Photorelease Techniques
Jack H. Kaplan

Phospholipid Flippases
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Light-Driven Mechanisms of Photosynthesis I
Jack Fajer

Growth Factors and Their Receptors
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Vibrational Spectroscopy of Biomolecules
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Thermodynamics and Control
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Stretch-Activated Ion Channels
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Light-Driven Mechanisms of Photosynthesis II
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Jack Fajer
M. R. Wasielewski

New Theoretical Approaches to Membrane Excitability
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Interdigitated Lipid Phases
Elizabeth Rowe

Fluctuations and Oscillations in Biological Systems
R. Dean Astumian

Imaging and Related Studies by ESR (EPR)
Harold M. Swartz

1989

Phototransduction and Electron Transport
Steven G. Boxer

Molecular Interactions in the Immune System
Bianca Conti-Tronconi

Molecular Motors: In vitro Assays and Molecular Genetic Approaches
James A. Spudich

High Resolution Structures of Proteins and Peptides
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Determination of Solution Structures by Nuclear Magnetic Resonance
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Assembly of Proteins and Peptides in Lipid Bilayers
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Probing Cellular Dynamics with Spectroscopy
Yale E. Goldman
David D. Thomas

Phototransduction in Retinal Photoreceptors
King-Wai Yau

New Directions in Quantitative Microscopy
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Emerging Structural and Functional Relationships Among Actin-binding Proteins
Thomas D. Pollard

G Protein Regulation of Ionic Channels
Arthur M. Brown

Water-Protein Interactions
Martha M. Teeter

Reaction Mechanisms of Ion Transport
Joseph F. Hoffman
Joyce E. Jentoft

Protein-RNA Interactions
Dixie J. Goss

1990

Excitation-Contraction Coupling
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Sidney Fleischer

Protein Folding
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Energy Transducing Membrane Complexes
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Ion Channels: Structure, Function and Modulation
William A. Catterall

Stimulus-Secretion Coupling and Mechanisms of Hormone Secretion
Illani Atwater

Signal Peptides and Protein Import/Export
Lila M. Gierasch

Protein Structure and Design
Wayne A. Hendrickson

Biophysical Aspects of Cell Signaling
Antonio Scarpa

Advances in Nucleic Acid Structure
Victor A. Bloomfield

Nuclear Cytoplasmic Exchange
Reiner Peters

Organization and Dynamics of Membrane Components
Thomas E. Thompson

1991

Calcium-binding Proteins
Michael N. G. James

Advances in Three-Dimensional Imaging
Roger M. Burnett

Supramolecular Assembly: Viruses and Ribosomes
Jonathan A. King

Ion Channels in Intracellular Membranes
Louis J. DeFelice
Carmen A. Mannella

Sensory Transduction
Meredithe Applebury

Surface Techniques in Biophysics
Nancy L. Thompson
Aaron Lewis

Intermediates in Protein Folding
Anthony L. Fink

Bridging Molecular Genetics and Biophysics in Cell Motile Systems
Ian R. Gibbons

1992

Retinal-containing Proteins
Kenneth J. Rothschild
John Spudich

Forces Involved in the Assembly & Stabilization of Membrane Proteins
William A. Cramer

Membrane Active Peptides
G. Graham Shipley

Structural Virology
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Biophysics of Lens Crystallins
Jane Koretz

Molecular Recognition in Muscle Assemblies
Sarah E. Hitchcock-DeGregori

Quantum Effects in Proteins
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Molecular Mechanisms of Potassium Channel Function
Richard W. Aldrich

Ab initio Protein Design
Ken A. Dill

Mechanisms of Allosteric Transduction
Gary K. Ackers

Plasticity in Protein Structures
Dagmar Ringe

Ion Channel Regulation in Epithelial Cells
Douglas C. Eaton

1993

NMR of RNA Conformation and Protein-RNA Interaction
Arthur Pardi

Structure and Function of the Cytoskeleton
Mary Lou Pardue

Molecular Mechanisms of Membrane Fusion
Robert Blumenthal

Molecular Recognition and Binding
Barry Honig

Intracellular Ion Channels
Joyce Diwan

Molecular Models of Protein Kinases
James Stull

Biophysical Studies of the Synaptic Plasticity Underlying Learning and Memory
John Lisman

Macromolecular Crowding in Cellular Biochemistry and Biophysics
Allen Minton

1994

Calcium Waves
Lionel F. Jaffe

Structure and Function of the First Energy Coupling Site
Tomoko Ohnishi

Surface Particle Movements and Membrane Dynamics
Ken Jacobson

Functional Imaging of the Brain
Kamil Ugurbil

Biophysical Approaches to DNA Replication
Peter H. von Hippel

Seven Helix Receptors
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Molecular Mechanisms of Mechanotransduction: From Bacteria to Buckminister
Owen P. Hamill

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Catherine A. Royer

Protein Folding: Recognition of Submolecular Domains
Clare K. Woodward

Structure and Function of the Nuclear Pore
Louis J. DeFelice

Structurally and Functionally Specific Water
Paul B. Sigler

MechanoEnzymes
Edwin Taylor

1995

Chaperonin-mediated Protein Folding
Ulrich Hartl

Electrostatic Forces in Macromolecular Function
Stuart G. McLaughlin

Light-dependent Proteins: Function and Structure
Richard Henderson

A Tale of Two Motors: Myosin and Kinesin
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Mechanisms of Exocytosis
Fredric S. Cohen

Emulation and Simulation of Neuronal Function
Eve Marder

De Novo Protein Design
William DeGrado

Catalytic RNA: Mechanism and Structure
Ignacio Tinoco, Jr.

Mechanisms of Metal Ion Binding and Selectivity
Joseph J. Falke

Complex Ion Channel Interactions
Lorna Role

Porin and VDAC
Marco Colombini

Nucleic Acid Motifs for Protein Recognition
Dixie J. Goss

Minority Affairs Symposium
Muriel S. Prouty

1996

Conveying Mechanical Stimuli to Channels
Cathy E. Morris

Nucleic Acid Recognition
Kenneth J. Breslauer

Photosynthetic Light-harvesting Complexes and Energy Trapping
Kenneth Sauer

Transport, Membranes and Structure
Cynthia V. Stauffacher

DNA Enzymes and their Substrates: Motors, Mechanisms and More
Steven M. Block

Structure and Mechanism in Cellular Signal Transduction
John Kuriyan

Studies of Protein Complexes by NMR: The Next Frontier
Angela Gronenborn

Insertion and Assembly of Membrane Proteins
Stephen H. White

Biophysical Approaches to Presynaptic Terminals
Steven A. Siegelbaum

Transporters and Channels: Funtional Similarities
Henry A. Lester

Scanning Probe Microscopies
Stephen G. Sligar

Protein Folding
Eaton Lattman

1997

Protein Insertion into Membranes
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Molecular Approaches to Transmembrane Signaling
Linda J. Kenney

Blockade of Ion Channels: Functional Determinant and Structural Tool
James A. Fox

Switches and Motors: Common Features of G Proteins, Kinesin & Myosin
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Protein-DNA Interaction
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Structural Determinants of Calcium Channel Signaling
Kurt Beam

AIDS and Its Associated Opportunistic Infections - Drug Discovery and Development
Manuel A. Navia

Local Ca^{2+} Signaling in Muscle and Nerve
W. Jonathan Lederer

Molecular Recognition on the Membrane Surface: Membrane Targets and Binding Motifs
Suzanne F. Scarlata

Nonlinear Optical Microscopy: Applications in Biology
Winfried Denk

Structure Based Analysis of Gene Sequences
Barry Honig

Regulation of Ion Channels by Heterotrimeric G Proteins
Gabor Szabo

The Multidrug Resistance Protein: Pump or Paradox?
Paul D. Roepe

1998

The Conformational Language of Calcium Regulation
Jill Trewhella

RNA in Three Dimensions
Peter B. Moore

NMR takes on Structure Determination of Membrane Proteins
Stanley J. Opella

Bioinformatics: Computer-Based Predictions of Protein Structure and Binding
Ruth Nussinov

Redox-Active Centers in Enzymes: New Insights into Structure and Mechanism
Bridgette Barry

Through the Channel Darkle: New Structural Insights
Diane M. Papazian

Frontiers in Magnetic Resonance: Protein Structure and Dynamics
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Protein Folding: Energy Landscapes and Ensembles
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The Devil is in the Details: Structural and Mechanistic Aspects of Transcription
Dorothy Erie

Moving Towards the Molecular Basis of Motility
Ivan Rayment

The Thermodynamics of Intimate Associations: Proteins and Nucleic Acids
Linda Jen-Jacobson

Structural Basis of Energy Transduction of Membranes
David L. Stokes

Single Molecules at Work
Steven M. Block

Biophysical Approaches to Understanding DNA Replication and Recombination
Edward H. Egelman

1999

Advanced Optical Methods to Study Synaptic Function
Karel Svoboda

Bioinformatics
Paul Thomas

Biophysical Approaches to Decipher the Mechanisms of Protein Folding Diseases
Thomas L. James

Conformation Changes, Subunit Interactions, and Cooperativity in Ion Channel Gating
Richard Aldrich

DNA Structure and Genomic Instability
Cynthia T. McMurray
Goutam Gupta

Emerging Trends in Cell Membrane Ionic Transport
Héctor Rasgado-Flores

Intracellular Recruitment of Signaling
Joseph J. Falke

Protein Design at the Interface of Theory, Computation and Experiment
Stephen L. Mayo

Revolution in Channel Physiology: Plasticity in Structure and Function
W. Jonathan Lederer

Shedding Light on Single Molecules
Jeff Gelles

Structural Analysis of Eukaryotic Signaling
John Kuriyan

2000

Muscle Crossbridges: Stepping into the Millennium
Hugh Huxley

Membrane Transport Proteins: Schlepping Through the Bilayer
H. Ronald Kaback

Structural Biology in Genomic Analysis
Gaetano T. Montelione

G Protein Signalling: From Receptor to Effector
Heidi E. Hamm

Protein Folding: An Urgent Problem in the Postgenomic Era
Lila Gierasch

Membrane Trafficking & Vesicle Fusion
Wolfhard Almers

Folding, Form and Function of RNA and DNA Molecules
Anna Marie Pyle

Phosphatidylinositides in Cell Signalling
Donald Hilgemann

Molecular Motors: Design and Performance
David M. Warshaw

Transmitter-gated Channel Structure and Function
Mark Mayer

Hybrid Crystallography and Electron Cryomicroscopy: Elucidating Macromolecular Complexes
Wah Chiu

2001

Going to the Library: Proteomics, Genomics & Combinatorial Approaches
Mathias Mann

Protein-Lipid Interactions: Minding the Membrane
Stephen White

Calcium Signaling Within & Between Cells
Andrew Thomas

Solution NMR: Pushing the Envelope
Gerhard Wagner

Sizing up Single Molecules
Sunney Xie

Structure of a Complete Signaling Pathway: Bacterial Chemotaxis
Ann Stock

Muscling up to Motor Proteins
James Spudich

Transmembrane Receptors
Dan Oprian

Microtubule-Chromosome Attachments-The Kinetochore
J. Richard McIntosh

Nitric Oxide as Second Messenger: Still Learning to Say NO
Michael Marletta

Protein Folding, Misfolding and Design
Art Horwich

Ion Channels: Toward a Structural View of Mechanism
Gary Yellen

Biosensors: Natural and Novel
Maria-Alda Gilles-Gonzalez

New & Notable: First GPCR Structures & More
Joseph J. Falke

From RNA to Protein: The Ribosome
Jamie Cate

2002

Channelopathies
Francis Ashcroft

Functional Protein Dynamics
Julie Forman-Kay

Membrane Rafts
Erwin London

Mechanisms of Kinase Specificity: Scaffolds vs. Sequences
Michael B. Yaffe

Data Driven Systems Biology
Philip Bourne

Unconventional Myosins
Mark Mooseker

Prions & Proteins Misfolding
Stanley Prusiner

Microtubule-based Motors
Steven M. Block

Complex Biological Machines: Structural & Functional Investigations
Cecile Pickart

Phosphatase Regulation of Contractile Function
Avril Somlyo

Structure & Function of Rotary Motors
David J. DeRosier

Interrogation of Proteins in Heterogeneous Environments
Gary P. Drobny

The Cell: Putting it Back Together
Stephen K. Burley

Acetycholine Receptors & The Neuromuscular Junction: From Atom to Synapse
Anthony Auerbach

Imaging Function in Situ to in Vivo: New Developments in Microscopy
Mark H. Ellisman

Multiple Technologies
Timothy A. Cross

Membrane Channels & Pumps: Mechanisms of Transport
Robert M. Stroud

Guardians of the Genome: Biophysics of DNA Repair
John A. Tainer

Coupling Between Surface & Intracellular Channels in Muscle
Susan L. Hamilton

Animating the Ribosome
Peter B. Moore

2003

Protein Folds, Function, and Evolution
Mark Gerstein

Probing Excitability and Contractility by Gene Transfer
Eduardo Marban

Molecular Mechanisms of Membrane Fusion: Protein Machines & Lipid Materials
Barry R. Lentz

Actin & Tubulin-Passive Substrates or Active Players
Thomas D. Pollard

Countering the Emerging Biological Threat
Jill Trewhella

Mechanochemistry of Unconventional Myosins
Kathleen M. Trybus

Chaperones-Diversity in Structure and Mechanism
Sue Wickner

Membrane Trafficking and Targeting
Suzanne F. Scarlata

Topoisomerases and Recombinases: Enzymes that Push DNA Around
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Single Molecule Folding and Catalysis
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Helicases & Motor Proteins that Act on Nucleic Acids
Dale Wigley

Macromolecular Signaling and Trafficking of Ion Channels
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Nucleic Acid Structure & Dynamics
James Williamson

Biophysics in situ
Wolfhard Almers

Calmodulin Regulation of Ion Channels
John P. Adelman

Microtubule Motors: Structures and Mechanisms
Joe Howard

Structural Integration-Chromatin at Many Levels of Details
Jeffrey C. Hansen

2004

The Structure & Function of Coupled Transporters
Ernest M. Wright

Non-Classical Molecular Motors
Steven Chu

Membrane Protein Folding in vivo and in vitro
J. Antoinette Killian

RNA Structure & Processing
Kathleen B. Hall

How Hearing Happens: The Role of Molecular Motors and Ion Channels in Adaptation and Amplification by Hair Cells
A. James Hudspeth

Protein Misfolding and Amyloidogenesis
Robert G. Griffin

Signaling through Phospholipids and Their Metabolites
Donald W. Hilgemann

Protein Aggregation & Disease Pathogenesis
Paul H. Axelsen

Membrane Protein Structural Dynamics
Albert H. Beth

Theoretical Cell Biophysics
Ken A. Dill

Visualizing Cells & Organelles
Wolfgang P. Baumeister

Membrane Biomechanics and Mechano-Sensitive Channels
Sergei I. Sukharev

Multi-protein Nucleic Acid Complexes
John Bushweller

Flexibility & Allostery in Signalling Proteins
Susan S. Taylor

Forces & Dynamics in the Cytoskeletonaul Janmey Functional Neuroimaging
Kamil Ugurbil

Structural Dynamics of Myosin
David D. Thomas

Structural Views into Ligand & Voltage Channel Gating
Francisco Bezanilla

Structural Basis of Viral Pathogenesis
Michael G. Rossmann

2005

TRP Channels: What a Sensation
David E. Clapham

Molecular Machines that Organize DNA Structure
James Kadonaga

Glycobiology: Synthesis, Multivalency and Glyochaperones
Peter Seeberger

Control and Regulation of Calcium Signaling in E-C Coupling
Clara Franzini-Armstrong

Cooperative Mechanisms in Molecular Motors
Yale E. Goldman

Moonlighting Proteins: Old Proteins Learning New Tricks
Constance Jeffery

Membrane Biophysics: Synaptotagmins, SNAREs and Vesicle Biogenesis
Edwin Chapman

Biophysical Approaches to DNA Replication and Repair
Wei Yang

Structural and Biophysical Dissection of Nucleocytoplasmic Transport
Ueli Aebi

Protein Folding: Theory, Experiment and Design
Valerie Daggett

Rho-GTPase Family Signaling: Intracellular and Structural Mechanisms
Avril Somlyo

Nucleic Acid Packaging in Virus Particles
John E. Johnson

Molecular Mechanisms of Translation
Wolfgang Wintermeyer

Theoretical Models of Dynamical Systems
Ken A. Dill

Allosteric Pathways Uncovered
Rama Ranganathan

Mitochondrial Ion Channels: Gatekeepers of Life and Death
Brian O'Rourke

Molecular Motors: Biophysical Mechanisms in Cell Biology
Margaret A. Titus

Exploring Molecular Motions of Channels & Transporters
Eitan Reuveny

RNA as a Therapeutic Drug Target: Progress and Challenges
Richard Roberts

Advances in High-Resolution Cellular Electron Tomography
Niels Volkman
Mark Ellisman

Simulation Methodologies for Membrane Structure and Dynamics
H. Larry Scott

Advances in Single-Molecule and Single-Cell Detection and Manipulation
Steven M. Block

New Technologies for Electrophysiology
Kathryn Klemic

2006

Bacterial Chemotaxis & Motility
Richard M. Berry

Nocleosome Structure, Dynamics, & Function
Jon Widom

Biophysics from Molecules to Cells
Steven M. Block

Rearranging DNA Strands in Recombination, Replication, & Repair
Tom Ellengerger

Self-Assembly of Cellular Architecture
Eva Nogales

Energy Transduction and Subunit Coordination in AAA & Related Motor Enzymes
Tania Baker

Structure by Design: From Single Proteins to Nanostructure
Ruth Nussinov

Dynamics in Enzyme Function
Judith P. Klinman

Small-Scale Systems Biology
Garrett Odell

RNA Folding and Unfolding
Anna M. Pyle

Visualizing Molecular Function in Living Cells
Robert Singer

Biophysics of Bacterial DNA Segregation and Cell Division
Harold P. Erickson

Structure-Function Relationships between Ion Channels & Ion Transporters
David C. Gadsby

Electron Transfer-driven Energy Transduction
Robert R. Gennis

Statistical Mechanical Insights into Biological Function
Robert Phillips

Myosins: Diversity and Mechanism
Richard E. Cheney

Protein Folding & Refolding in Biology
Peter Gettins

2007

Calcium-activated Switches
Madeline A. Shea

Biophysics & the Molecular Origins of Life
Gerald Joyce

Protiein Biophysics in Living Cells
Tom Kerppola

Membrane Transporters
H. Ronald Kaback

Multiscale Phenomena in Biology
Benoit Roux

Membrane Asymmetry & Trans-Membrane (Flip-Flop) Motion
Philippe F. Devaux

RNA: Protein Particles
David Draper

Intracellular Calcium Dynamics: The Interplay of Experiment and Modeling
James Sneyd

Molecular Mechanisms of Cell Migration
Rick Horwitz

Traffic: Regulation of Membrane Traffic in the Secretory and Endocytic Pathways
Sergio Grinstein

RNA and Gene Regulation
Robert Batey

Lateral Membrane Organization & Lipid-Protein Interactions
Michael Edidin

Modeling as a Tool in Biophysics
Robert Eisenberg

Nanomachines & Nanotechnologies
Wah Chiu

Structural Basis of Voltage Sensing in Ion Channels
Frederick J. Sigworth

Vesicle Dynamics
Robert H. Chow

Modulation of Primary Sensory Function
Paul Fuchs

The Ribosome as a Molecular
Peter B. Moore

Myosin Motor Mechanism in Muscle
Malcolm Irving

2008

The Biophysics of the Immune Response
E. Yvonne Jones

Mechanoenzymes
Susan P. Gilbert

Membrane Protein Structure: Freed from the Lattice
Marc Baldus

Putting the Move on Myosin
Piotr Fajer

Driving Forces in Macromolecular Binding
Anthony Kossiakoff

EGF Receptor Signaling and Networks
Kate Ferguson

Translation and the Translocon
Arthur Johnson

Imaging and Controlling Cellular Dynamics in vivo Using Light
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RNA in Action
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Ca^{++} Signaling: From the Plasma Membrane to the Nucleus
Barbara Ehrlich

Collective Motor Dynamics in Cell Division
Fred MacKintosh

Non-conducting Functions of Ion Channels
Federico Sesti

Voltage-dependent Proton Channels Come of Age
Thomas DeCoursey

Mechanisms of Exo- and Endocytosis
Timothy Ryan

From Protein Crystals to Amyloid Fibrils: Condensed Colloidal Phases in Biology
Martin Muschol

Damaged Proteins – Structural and Biological Consequences
Phoebe Stewart

Allostery and Dynamics in Protein Function
Anthony Auerbach

ABC Transporters: Molecular Structures and Mechanisms
Hassane Mchaourab

Nucleic Acid-based Motors
Antoine van Oijen

2009

Protein Modularity and Flexibility in Signal Transduction
David Eliezer, Richard Kriwacki

Many Ways to Regulate a Molecular Motor
Samantha Harris

The Biophysics of HIV
David Millar

Systems Biology
Ravi Iyengar

How Proteins Move on DNA
Smita Patel

Store-operated Calcium Channels in the Molecular Age
Richard Lewis

Cholesterol as a Regulator of Channel and Receptor Function
Irena Levitan

Monitoring RNAs: From Single Molecules to the Cell
Ignacio Tinoco

Sensing the Membrane
William Dowhan

New Frontiers in Biophysics
Hagan Bayley

Cargo Transport by Single Molecular Motors
Kristen Verhey

Regulated Intramembrane Proteolysis (RIP)
Yigong Shi

G-Protein Coupled Receptor Structure and Regulation
Brian Kobilka, Jonathan A. Javitch

RNA in Biology and Disease
Dinshaw Patel

Channels, Transporters, and Pores: Ways to Cross the Membrane
Susan Buchanan

The Dynamic Chromatin in Epigenetic Gene Control
Timothy J. Richmond

DNA Processing in Genome Integrity and Maintenance
Michael O'Donnell

Muscle: A Model System for Emergent Molecular Motor Properties
Claudia Veigel

Membrane Trafficking
Barbara Baird

Receptor-mediated Channel Activation
David Colquhoun

2010

Amyloids in Human Disease
Frank LaFerla

The Cytoskeleton: Variations on a Theme
Edward Egleman

Multiscale Structural Analysis of Very Large Complexes
Andrej Sali

RNAs Large and Small
Anna Pyle

The Proton Gets Channeled
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Protein and Cellular Mechanics
Viola Vogel

Structure and Dynamics of Membrane Transporters
Jue Chen

Biophysics of the Failing Heart
John Solaro

DNA Nanomachines in Vitro and Inside Living Cell
Hao Yan

Target Structure-guided Drug Design
Philip Cole

Epigenetic Control of Gene Expression
Aneel Aggarwal

TRP Channel Multimodal Gating
Ardem Patapoutian

Genome Organization and Dynamics
Michelle Wang

Membranes as Barriers in Combating Infection
Yechiel Shai

Calcium Flickers and Motility at the Leading Edge Membrane
Joseph Falke

The 'Un' in Unconventional Molecular Motors
Samara Reck-Peterson

Single Molecules Meet Systems Biology
Sunney Xie

Mechanism of Electromechanical Coupling in Voltage-gated Ion Channels
William Catterall

2011

Ca^{2+} Regulation of Channels
David Yue

Noise and Fluctuations in Biology: Where is it important?
Bill Bialek

Superresolution in Biology: Applications in Important Biological Problems
Ethan Garner

Phospholipid Modulation of Ion Channels
Bertil Hille

Allostery and Ligand Control and Function
Vincent Hilser

Remodeling the Membrane
Mark Sansom

Systems Biology—Control of Cellular Behaviors, Including Gradients and Feedback
Mustafa Khamash

Cell and Tissue Mechanics and Modeling- AFM and Rheology, Small to Tissue Scale
Doug Robinson

Interfaces Between Cells and the Outside World: Bioengineering Meetings Biophysics
Nancy Allbritton

CFTR: Structure and Function of an Anion Channel and the Molecular Basis of Cystic Fibrosis
David Dawson

Contributions of Network Theory to Biology
Sergei Maslov

50 Years of Chemiosmotic Hypothesis: Open Questions
Gerhard Hammer

25 Years of Membrane Protein Structure
Doug Rees

What Drives Nucleic Acid Condensation?
Barbara Meyer

The Alternating Access Mechanism in the Era of Transporter Structures
Christopher Miller

Molecular Motors and the Cytoskeleton: Moving to the Boundaries
David Warshaw

Single Molecule Biophysics of the Central Dogma
Joseph Puglisi

Mechanotransduction at the Cellular Level: Detection and Response
Michael Sheetz

2012
Biological Insights from Systems Approaches to Protein Networks
Giulio Superti-Furga

Biophysics of Membrane Fusion and Fission
Sandra Schmid

Fluorescence Correlation Spectroscopy: Applications to Biophysics
Nancy Thompson

Temperature Regulation of Channels
Tibor Rohacs

Spatial Organization in Prokaryotic Cells: Quantitative Measurements to Quantitative Models
Ned Wingreen

EAG-Family Channels: Mechanisms of Disease
Gail Robertson

Cargo Transport by Coupled Molecular Motors
Stefan Diez

Mitosis Studied with Biophysical Tools
Charles Asbury

Chromosome Architecture and Function
Sankar Adya

Stretching and Bending Lipid Membranes
Evan Evans

Response of Single Molecules to Force: Bridging Length Scales
Wendy Thomas

Transporter-Channel Interface
David Gadsby

Soft Lithography for Biology
Christopher Chen

Large Complexes and Machines - Dissecting Mechanism
Geeta Narlikar

Myosin Binding Protein-C: A Modulator of Cardiac Contractility
Roger Craig

Materials Science Meets Biology
Sangeeta Bhatia

Dynamics of G-Protein Coupled Receptors
David Farrens

Dynamics and Localization of RNAs
Robert Singer

2013
Viral Entry, Budding and Replication at Membranes
Karla Kirkegaard

Chromosome Packaging, Processing, and Dynamics
Wilma K. Olson, Rutgers

From Molecules to Tissues: How Forces are Transduced in Biology
Justin Molloy

Proton Channels
Thomas DeCoursey

Evolution & Computation to Design New Protein Functions
William Degrado

Imaging from Molecules to Organisms
Jan Liphardt

Mechanics in the Nucleus
Nynke Dekker

Membrane Protein Folding
Paula Booth

The Synapse
Josep Rizo

Regulation of Protein Synthesis
Rachel Green

Frontiers in Electron Miscroscopy
Grant Jensen

Electrostatics
Bertrand Garcia-Moreno

Counting Atoms in Big Machines
Carol Robinson

Multiscale Methods in Structural Biology
Michael Levitt

Interface of Brain and Machines
Andrew Schwartz

Genomics and Biophysics
Jonathan Weissman

Flagella and Motility
Howard Berg

Biological Circuit Design
Ron Weiss

Lipid and Lipid Bilayer Regulation of Ion Channel Function
Olaf Andersen

Light-driven Reactions and Physiology
Janos Lanyi

Past Student Symposia Speakers & Topics

(Organized by the Education Committee)

1989-1991
Norma M. Allewell
Careers in Biophysics

1992-1998
Richard D. Ludescher
A Molecular View of Life/What is Biophysics?

1999
Barry Selinsky
What is Biophysics?

2000
Richard D. Ludescher
What is Biophysics?

2001
Richard D. Ludescher
What is Biophysics?

2002
Richard D. Ludescher
What is Biophysics?

2003
Richard D. Ludescher
Emerging Topics in Biophysics

2004
A. James Hudspeth
How the Ear's Works Work: Transduction & Tuning by Hair Cell

2005
Catherine A. Royer
Pressure Denaturation of Proteins

Achillefs Kapanidis
Single Molecular Biophysics

2006
Ignacio Tinoco, Jr.
Kinetics and Thermodynamics One Molecule at a Time

2007
John Steve Olson
Biophysics, Baseball Gloves, & Blood Substitutes–Some Studies Based on Undergraduate Research

2008
Donald Crothers
Nature Cares about Kinetics

David Eisenberg
Structural Biophysics of Aggregation Diseases

2009
Philip Nelson
Keeping the Physics in Biophysics, and Vice Versa

2010
Richard D. Ludescher
What is Biophysics?

2011
Richard D. Ludescher
What is Biophysics?

2012
Kenneth Dill
Emily M. Gray Lecture

2013
Louis de Felice
Emily M. Gray Lecture

Past Award Winners

Anatrace Membrane Protein Award

(Established in 2007)

The award recognizes investigators who have made a significant contribution to the field of membrane protein research.

2008
H. Ronald Kaback, University of California, Los Angeles

2009
Robert M. Stroud, University of California, San Francisco

2010
Tom A. Rapoport, Harvard Medical School, HHMI

2011
Shelagh Ferguson-Miller, Michigan State University

2012
Charles R. Sanders, Vanderbilt University

2013
Carol Robinson, University of Oxford, United Kingdom

Avanti Award in Lipids

(Established in 1994 as a biannual award and renewed in 2002 as an annual award)

The award is given to an investigator for outstanding contributions to our understanding of lipid biophysics.

1997
Ching-hsien Huang, University of Virginia

1999
Richard M. Epand, McMaster University

2000
Ronald N. McElhaney, University of Alberta

2003
John F. Nagle, Carnegie Mellon University

Stephanie Tristram-Nagle, Carnegie Mellon University

2004
Thomas J. McIntosh, Duke University Medical Center

2005
Joachim Seelig, University of Basel Biocenter

2006
Thomas E. Thompson, University of Virginia Health Science Center

2007
Klaus Gawrisch, NIAAA, NIH

2008
Ben de Kruijff, Utrecht University, the Netherlands

2009
Stephen H. White, University of California, Irvine

2010
James A. Hamilton, Boston University Scholl of Medicine

2011
Eric Oldfield, University of Illinois

2012
Huey W. Huang, Rice University

2013
Joseph Zasadzinski, University of MInnesota

Michael and Kate Bárány Award for Young Investigators

(Established in 1992 and renamed in 1998)

The award is for an outstanding contribution to biophysics by a person who has not achieved the rank of full professor at the time of nomination.

1992
Richard W. Aldrich, Stanford University

1993
Ronald D. Vale, University of California, San Francisco

1994
Steven M. Block, Rowland Institute for Science

1995
Roderick MacKinnon, Harvard Medical School

1996
David P. Corey, Harvard Medical School, HHMI

1997
Donald W. Hilgemann, University of Texas Southwestern Medical Center

1998
Winfried Denk, Lucent Technologies

1999
Gaetano T. Montelione, Rutgers University

2000
Elizabeth Komives, University of California, San Diego

2001
Shimon Weiss, University of California, Berkeley

2002
William Zagotta, University of Washington

2003
Patricia Jennings, University of California, San Diego

2004
Paul R. Selvin, University of Illinois, Urbana

2005
Vincent J. Hilser, University of Texas

2006
Anne-Frances Miller, University of Kentucky

2007
Taekjip Ha, University of Illinois

2008
Sergei Sukharev, University of Maryland, College Park

2009
Gaudenz M. Danuser, Scripps Research Institute

2010
Mark J. Schnitzer, Stanford University

2011
Charalampos Kalodimos, Rutgers University

2012
Vijay Pande, Stanford University

2013
Patricia Clark, University of Notre Dame

Margaret Oakley Dayhoff Award

(Established in 1984)

The award is given to a woman of very high promise who has not yet reached a position of high recognition within the structures of academic society.

1984/85
Dagmar Ringe, Massachusetts Institute of Technology

Bonnie Ann Wallace, Columbia University

1985/86
Barbara A. Lewis, Oak Ridge National Laboratory and University of Tennessee

1986/87
Barbara E. Ehrlich, University of Connecticut Health Center

1987/88
Rachel Klevit, University of Washington

1988/89
Nancy L. Thompson, University of North Carolina

1989/90
Anne Walter, Wright State University

1991/92
Hazel M. Holden, University of Wisconsin

Francine R. Smith, University of North Carolina

1992/93
Carol Vandenberg, University of California, Santa Barbara

1994/95
Jean S. Baum, Rutgers University

1995/96
Lynne Regan, Yale University

1996/97
Susan Marqusee, University of California, Berkeley

1998/99
Judith R. Mourant, Los Alamos National Laboratory

1999/00
Lydia Gregoret, University of California, Santa Cruz

2000/01
Millie M. Georgiadis, Rutgers University

Ka Yee Christina Lee, University of Chicago

2001/02
Gina MacDonald, James Madison University

2002/03
Hao Wu, Cornell University, Weill Medical College

2004
Dorothee Kern, Brandeis University

2005
Sarah Keller, University of Washington

2006
Anne Hinderliter, North Dakota State University

2007
Kalina Hristova, Johns Hopkins University

2008
Judith Klein-Seetharaman, University of Pittsburgh School of Medicine

2009
Teresa Giraldez, Unidad de Investigacion HUNSC

Adrienne L. Fairwell, University of Washington

Jin Zhang, John Hopkins University School of Medicine

2010
Crina Nimigean, Weill Medical College, Cornell University

Maria Spies, University of Illinois, Urbana-Champaign

2011
Diane Lidke, University of New Mexico

2012
Lucy R. Forrest, Max Planck Institute of Biophysics, Frankfurt, Germany

2013
Katherine Henzler-Wildman, Washington University, St. Louis

Jennifer Ross, University of Massachusetts, Amherst

Distinguished Service Award

(Established in 1991)

The award honors service in the field of biophysics and for contributions beyond achievements in research.

1991
John B. Wolff, NIH

1992
Leo Lipetz, Ohio State University

1993
Arthur Kowalsky, NSF

1994
V. Adrian Parsegian, NIH

1995
Charles A. Miller, NIH

1996
Thomas E. Thompson, University of Virginia

1997
Thomas D. Pollard, Salk Institute for Biological Studies

1998
Victor A. Bloomfield, University of Minnesota

1999
Stephen H. White, University of California, Irvine

2000
Helen Berman, Rutgers University

2001
Frederic M. Richards, Yale University

2002
Peter B. Moore, Yale University

2003
Marvin Cassman, NIGMS, NIH

2004
Mary Dicky Barkley, Case Western Reserve University

2005
Sarah E. Hitchcock-DeGregori, UMDNJ RWJ Medical School

2006
Robert B. Gunn, Emory University School of Medicine

2007
Ken A. Dill, University of California, San Francisco

2008
Robert Callender, Albert Einstein College of Medicine

2009
Jeremy M. Berg, NIGMS, NIH

2010
Mordecai P. Blaustein, University of Maryland School of Medicine

2011
Olaf Anderson, Cornell University

2012
Edward Egelman, University of Virginia

2013
Klaus Schulten, University of Illinois, Urbana Champaign

U.S. Genomics Award for Outstanding Investigator in the Field of Single Molecule Biology

(Awarded 2006–2011)

To recognize an exceptional researcher for seminal contributions to the field of single molecule biology.

2006
James A. Spudich, Stanford University School of Medicine

2007
Howard C. Berg, Harvard University

2008
Steven M. Block, Stanford University

2009
Julio M. Fernandez, Columbia University

2010
Jane Clarke, University of Cambridge

2011
Toshio Yanagida, Osaka University

Fellows of the Biophysical Society

(Established in 1999, temporarily suspended in 2013)

The award honors the Society's distinguished members who have demonstrated excellence in science and to expanded of the field of biophysics.

Class of 2000

Gary K. Ackers, Washington University School of Medicine

Richard W. Aldrich, Stanford University School of Medicine

Clay M. Armstrong, University of Pennsylvania

Daniel Axelrod, University of Michigan

Robert L. Baldwin, Stanford University School of Medicine

Francisco Bezanilla, University of California, Los Angeles

Rodney L. Biltonen, University of Virginia Health Science Center

Kevin P. Campbell, University of Iowa College of Medicine

Charles R. Cantor, Sequenom, Inc.

Donald L. D. Caspar, Florida State University

Carolyn Cohen, Brandeis University

Donald M. Crothers, Yale University

David Eisenberg, University of California, Los Angeles

S. Walter Englander, University of Pennsylvania Medical School

Bertil Hille, University of Washington

Barry Honig, Columbia University

Wayne Hubbell, University of California, Los Angeles

Hugh E. Huxley, Brandeis University

William P. Jencks, Brandeis University

Jack H. Kaplan, Oregon Health Sciences University

Peter S. Kim, Whitehead Institute of Biomedical Research

Susan Lowey, University of Vermont

J. Andrew McCammon, University of California, San Diego

Harden M. McConnell, Stanford University

Gerard Meissner, University of North Carolina

Peter B. Moore, Yale University

V. Adrian Parsegian, NIH

Thomas D. Pollard, Salk Institute for Biological Studies

Frederic M. Richards, Yale University

Michael G. Rossman, Purdue University

Harold Scheraga, Cornell University

Andrew P. Somlyo, University of Virginia

Avril V. Somlyo, University of Virginia

Robert M. Stroud, University of California, San Francisco

Andrew G. Szent-Gyorgyi, Brandeis University

Thomas E. Thompson, University of Virginia School of Medicine

Richard W. Tsien, Stanford University School of Medicine

Watt W. Webb, Cornell University

Annemarie Weber, Emeritus Member

Class of 2001

Helen M. Berman, Rutgers University

Ludwig Brand, Johns Hopkins University

George Feher, University of California, San Diego

Manuel F. Morales, University of the Pacific

Wilma K. Olson, Rutgers University

Arieh Warshel, University of Southern California

Class of 2002

David J. DeRosier, Brandeis University

Ken A. Dill, University of California, San Francisco

William A. Eaton, LCP, NIDDK, NIH

Joachim Frank, HHMI

Hans Frauenfelder, Los Alamos National Laboratory

Robert B. Gennis, University of Illinois, Urbana

Wayne A. Hendrickson, Columbia University

Terrell L. Hill, Emeritus Member

Joseph F. Hoffman, Yale University

H. Ronald Kaback, University of California, Los Angeles

Irwin D. Kuntz, University of California, San Francisco

W. Jonathan Lederer, University of Maryland

John L. Markley, University of Wisconsin

John A. Schellman, University of Oregon

Ignacio Tinoco, University of California, Berkeley

Peter H. von Hippel, University of Oregon

Stephen H. White, University of California, Irvine, School of Medicine

Clare K. Woodward, Utah State University

Bruno H. Zimm, University of California, San Diego

Class of 2003

Mordecai P. Blaustein, University of Maryland School of Medicine

David R. Davies, NIDDK, NIH

John Gergely, Boston Biomedical Research Institute

Rufus Lumry, University of Minnesota

James H. Prestegard, University of Georgia

Peter G. Wolynes, University of California, San Diego

Class of 2004

David L. Beveridge, Wesleyan University

Ronald N. McElhaney, University of Alberta

Mauricio Montal, University of California, San Diego

Brian B. Sykes, University of Alberta

Class of 2005

Sunney I. Chan, California Institute of Technology

Edward H. Egelman, University of Virginia Health Science Center

Jeffrey Skolnick, Buffalo Center of Excellence Bioinform

David D. Thomas, University of Minnesota Medical School

Ernest M. Wright, University of California, Los Angeles

Class of 2006

Michael Bárány, University of Illinois College of Medicine

Yale E. Goldman, University of Pennsylvania

Martin Gruebele, University of Illinois, Urbana

M. Thomas Record, University of Wisconsin, Madison

J. Walter Woodbury, University of Utah, Medical School

Xiaoling Sunney Xie, Harvard University

Class of 2007

Steven Boxer, Stanford University

Maurizio Brunori, University of Rome

William Cramer, Purdue University

Elliot L. Elson, Washington University

George P. Hess, Cornell University

Class of 2008

Timothy A. Cross, Florida State University

Eve E. Marder, Brandeis University

Ivan Rayment, University of Wisconsin

Stephen G. Sligar, University of Illinois, Urbana-Champaign

Attila Szabo, NIDDK, NIH

Class of 2009

Donald M. Bers, University of California, Davis

Betty J. Gaffney, Florida State University

Robert L. Jernigan, Iowa State University

Mark T. Nelson, University of Vermont

Diane M. Papazian, University of California, Los Angeles

Class of 2010

Steven M. Block, Stanford University

David S. Cafiso, University of Virginia

G. Marius Clore, NIDDK, NIH

Michael A. Edidin, Johns Hopkins University

Shelagh Ferguson-Miller, Michigan State University

Andrew Joshua Wand, University of Pennsylvania School of Medicine

Class of 2011

Valerie Daggett, University of Washington

Donald M. Engelman, Yale University

Jennifer Lippincott-Schwartz, NIGMS, NIH

Erwin Neher, Max-Planck Institute of Biophysical Chemistry

Ruth Nussinov, NCI, NIH

Lynne J. Regan, Yale University

Anthony Watts, University of Oxford

Class of 2012

Carlos Bustamante, University of California, Berkeley

José Onuchic, Rice University

Tamar Schlick, New York University

Klaus Schulten, University of Illinois, Urbana-Champaign

Frances Separovic, University of Melbourne, Australia

Gregory Voth, University of Chicago

Toshio Yanagida, Osaka University, Japan

Founders Award

(Established in 1986 as the Elisabeth Roberts Cole Award and renamed in 2000)

The award is given for outstanding achievement in any area.

1986
George Eisenman, University of California, Los Angeles

1987
Lawrence B. Cohen, Yale University School of Medicine

1988
Seymour H. Koenig, T. J. Watson Research Center, IBM

1989
Ramon Latorre, University of Chile

1990
Joel Brown, Albert Einstein College of Medicine

1991
Wayne L. Hubbell, University of California, Los Angeles

1992
Robert M. Glaeser, University of California, Berkeley

1993
David J. DeRosier, Brandeis University

Joachim Frank, New York State Department of Health

1994
Gary K. Ackers, Washington University

1995
David A. Yphantis, University of Connecticut

1996
Ignacio Tinoco, Jr., University of California, Berkeley

1997
William H. Woodruff, Los Alamos National Laboratory

1998
Michael G. Rossmann, Purdue University

1999
Robert L. Baldwin, Stanford University

2000
Carolyn Cohen, Brandeis University

2001
M. Thomas Record, University of Wisconsin

2002
Barry Honig, Columbia Universit

2003
Irwin D. Kuntz, University of California, San Francisco

2004
Carlos Bustamante, University of California, Berkeley

2005
Thomas G. Spiro, Princeton University

2006
William A. Eaton, LCP, NIDDK, NIH

2007
Clara Franzini-Armstrong, University of Pennsylvania

2008
Peter Wolynes, University of California, San Diego

2009
Keiichi Namba, Osaka University

2010
S. Walter Englander, University of Pennsylvania

2011
Attila Szabo, NIDDK, NIH

2012
Sunney Xie, Harvard University

2013
Peter von Hippel, University of Oregon

Emily M. Gray Education Award

(Established in 1997)

The award is for significant contributions to education in biophysics whether by teaching, developing novel educational methods or materials, promoting scientific outreach efforts to the public or to youth, generating a track record of attracting new students to the field of biophysics, or by otherwise fostering an environment exceptionally conducive to education in biophysics.

Beginning in 1998, Annual Meeting Student Symposia lectures were presented by Emily M. Gray Awardees.

1998
Muriel S. Prouty, Professor Emerita, University of the District of Columbia

1999
Kensal E. van Holde, Oregon State University

2000
Charles Cantor, Sequenom Inc

Paul Schimmel, Scripps Research Institute

2001
Jane S. Richardson, Duke University Medical Center

2002
Norma M. Allewell, University of Maryland, College Park

2003
Michael F. Summers, University of Maryland, Baltimore

2004
Richard D. Ludescher, Rutgers University

2005
Barry R. Lentz, University of North Carolina at Chapel Hill

2006
Ignacio Tinoco, Jr., University of California, Berkeley

2007
John Steve Olson, Rice University

2008
Donald Crothers, Yale University

David Eisenberg, University of California, Los Angeles

2009
Philip C. Nelson, University of Pennsylvania

2010
Greta Pifat-Mrzljak, Rudjer Boskovic Institute

2011
Bertil Hille, University of Washington

2012
Sarina Bromberg, Freelance Writer

Kenneth Dill, Stony Brook University

2013
Louis de Felice, Virginia Commonwealth University

Harold Lamport Award

(Awarded 1977–1994)

The Award was presented to the graduate student member giving the best poster presentation.

1977
J. B. Patlak, University of California, Los Angeles

R. L. Burke, State University of New York, Stony Brook

1978
George A. Gibson, State University of New York, Binghamton

1979
Richard Levis, Rush University

1980
David R. Manning, University of Texas Health Science Center

1981
Martin Potschka, University of Connecticut

Lawrence C. Kuo, University of Chicago

1982
Dennis R. Hare, University of Washington

William A. Houle, University of Oregon

1983
Michael S. Strain, Yale University

1984
Richard Ludescher, University of Oregon

1985
Laura Lerner, Johns Hopkins University

1986
Dixon J. Woodbury, University of California, Irvine

1987
Giselle Scott-Woo, University of Calgary

Greg B. Wells, University of Chicago

1988
Myun K. Han, Johns Hopkins University

1989
Cindy M. L. Hutnik, University of Ottawa

1990
Diana B. Cherbavsaz, Brandeis University

Lisa M. Smith, Case Western Reserve University

1994
Hung Pin Kao, University of California, San Francisco

Student Research Achievement Award

(Established in 1994)

The Awards are presented to the graduate student members preparing the best poster presentations in the subgroup research areas, who officially entered the competition at the time of abstract submission.

1995
Vinod Subramaniam, University of Michigan

1996
Patricia Clark, University of Texas, Southwest Medical Center

Wenjun Sun, Carnegie Mellon University

1997
John P. Clement, Baylor College of Medicine

1998
Julie Dalziel, Australian National University

1999
Isabelle Deschênes, Laval University

2000
Jennifer Kimmel, Texas A&M University

2001

Joint 1st Place Winners:
Kathy DeJong, University of Western Ontario

Kimberly Matulef, University of Washington

Joint 2nd Place Winners:
Jenafer Evans, University of Florida

Ching Ling Teng, University of Virginia

2002
Yanire Andrade, Pontificia Universidad Catolica de Chile

Trevor Cottrell, University of Arizona

Michael Erickson, Johns Hopkins University School of Medicine

Meredith Newby, Florida State University

Prithwish Pal, University of Rochester Medical Center

Sophie Pautot, Harvard University
Saveez Saftarian, Washington University, St. Louis

Reneka Sivendran, University of Massachusetts

Deborah Sterling, University of Alberta

Jie Xiao, Rice University

Xinsheng Zhu, University of Wisconsin School of Medicine

2003
David Li, Albert Einstein College of Medicine

Sally Kim, University of Texas, Houston Health Science Center

David Bostick, University of North Carolina at Chapel Hill

Rhonda Newman, University of Iowa

Allison Ortigosa, Texas A&M University

Sarah Veatch, University of Washington

2004
Zeyneo Akyol, University of Iowa

Richard Baxter, University of Chicago

David Bostick, University of North Carolina at Chapel Hill

Long Cai, Harvard University

Yen-Ju Chen, University of Virginia Health System

Carmen Chirita, Ohio State University

Matthew Clifton, Purdue University

Daniel Dombeck, Cornell University

Kapil Gupta, Johns Hopkins University

Hong Ji, Albert Einstein College of Medicine

Michael Puljung, University of Chicago

Sudarshan Rajagopal, University of Chicago

Likai Song, Florida State University

Justin Stambaugh, University of Maryland

Shoji Takashi, Johns Hopkins University School of Medicine

Guruvasuthevan Thuduppathy, Johns Hopkins University

2005
Se Jin Han, University of Maryland

Benedict Hebert, McGill University

Jiunn B. Heng, University of Illinois, Urbana-Champaign

Chiaki Ishii, Stanford University

Rodolphe P. Katra, Case Western Reserve University

Xiaoying Lu, University of Iowa

John T. Mongan, University of California, San Diego

Ling Qin, Michigan State University

Bridget Salzameda, University of Nevada, Reno

Veronica A. Segarra, Yale University

Won-Chul Shin, University Missouri, Columbia

Ann M. Stanley, Johns Hopkins University

Wenyi Zhang, Stony Brook University

2006
Dukagjin Blakaj, Albert Einstein College of Medicine

Xiaohui Chen, University of Missouri

Corey Dambacher, San Diego State University

Marcel Friedrich, Max Planck Institute

Nicholas Guydosh, Stanford University

Xue Han, Johns Hopkins University

Gwangrog Lee, Duke University

Katherine Mayer, Rice University

J. Craig Moffat Jr., Brigham Young University

Hena Ramay, George Mason University Undergraduate

Lai Hock Tay, Johns Hopkins University

Rosemary Turingan, University of Massachusetts

Tzu-Ming Wang, University of Texas Southwestern Medical Center

2007
Elvera Baron, Mount Sinai School of Medicine

Lee Cambrea, Purdue University

Salvatore Chiantia, Technische University, Dresden

Shelli Frey, University of Chicago

Eric Hayden, Albert Einstein College of Medicine

David Hokanson, University of Pennsylvania School of Medicine

Marque Moffett, University of Vermont

Arait Ramesh, Texas A&M University

Yilong Shu, University of Missouri

Wenzhi Tan, University of Maryland, College Park

Jessica Walter, University of California, Berkeley

Yunkun Wu, University of Alabama, Birmingham

2008
An-Chi Wei, Johns Hopkins University

Nithya Srinivasan, Pennsylvania State University

Michelle Yu, Albert Einstein College of Medicine

Jill B. Jensen, University of Washington

Sunitha Ayers, Cornell University

Elizabeth Covington, Stanford University

John Fisher, St. Jude Children's Research Hospital

Ireena Bagai, University of Arizona

Susan O'Donnell, University of Iowa

Nagy Stanislav, University of Chicago

Lijuan He, Johns Hopkins University

Julio Cordero-Morales, University of Virginia

2009
Baldomero Alonso-Latorre, University of California, San Diego

Joanna Andrecka, Ludwig Maximilians University

Dipanwita Batabyal, Albert Einstein College of Medicine

Khajak Berberian, Cornell University

Amanda Carpenter, University of Colorado, Boulder

Sebastian Morin, University of Laval

Joerg Nikolaus, Humboldt University, Berlin

Ariele Viacava Follis, Georgetown University

Kely Sheldon, NIH

Ameer Thompson, Weill Medical College, Cornell University

Barbara Treutlein, Ludwig Maximilians University

TingTing Yang, Johns Hopkins University

2010
Manasi Bhate, Columbia University

James A. Cooke, Macquarie University

Proleta Datta, University of Texas Medical School at Houston

Paul G. DeCaen, University of Washington

Jaya Ghosh, University of Missouri

Helgi I. Ingolfsson, Weill Medical College, Cornell University

Pierre Karam, McGill University

Minkyu Kim, Duke University

Christoph Nowak, Max Planck Institute for Polymer Research

Joshua Phillips, University of California, Merced

Sevenaz Sarabipour, John Hopkins University

2011
Patrick Cutler, University of New Mexico

William Elam, Johns Hopkins University

Vimal Gangadharan, University of Delaware

Marcela Gonzalez-Granillo, Joseph Fourier University

Ariel Lewis-Ballester, Albert Einstein College of Medicine

Monica Yun Liu, Yale University

Paolo Lobo, University of British Columbia

Albert Mao, Washington University

Elizabeth Middleton, Yale University

Preston Moon, Johns Hopkins University

Jason Perlmutter, University of Minnesota, Twin Cities

Kene Piasta, Brandeis University

Natasha Pirman, University of Florida

Davit Potoyan, University of Maryland, College Park

Ruoyi Qiu, North Carolina State University

Friedrich Roder, University of Osnabrueck

Prattana Samasilp, Case Western Reserve University

Cynthia Stanich, University of Washington

Albrecht von Hardenberg, University of Saarlandes

Zachary Wissner-Gross, Harvard University

2012

Anuja Chandrasekar, University of Texas Health Science Center, Houston

Thomas Chew, University of California, San Diego

Leslie Conway, University of Massachusetts, Amherst

Amicia Elliott, Vanderbilt University

Lawrence Gray, University of Iowa

S. Saif Hasan, Purdue University

Yanxin Liu, University of Illinois

Sayan Mondal, Cornell University

Ruoyi Qiu, North Carolina State University

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Disordered Motifs and Domains in Cell Control

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