

Fifth International Conference on
Cyclic Nucleotides and
Protein Phosphorylation

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Volume 17

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Cyclic Nucleotides and Protein Phosphorylation
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Volume Editors

Paul Greengard, Ph.D.

*Professor and Head
Laboratory of Molecular
and Cellular Neuroscience
Rockefeller University
New York, New York*

G. Alan Robison, Ph.D.

*Professor of Pharmacology
University of Texas Medical School
Houston, Texas*

Rodolfo Paoletti, M.D.

*Professor and Director
Institute of Pharmacology
and Pharmacognosy
University of Milan
Milan, Italy*

Simonetta Nicosia, Ph.D.

*Associate Professor of
Biological Chemistry
School of Pharmacy
University of Milan
Milan, Italy*

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ADVANCES IN CYCLIC NUCLEOTIDE
AND PROTEIN PHOSPHORYLATION RESEARCH

Volume 17

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Paul Greengard, *New York, New York*

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Preface

This volume includes most of the invited lectures presented at the Fifth International Conference on Cyclic Nucleotides and Protein Phosphorylation held in Milan, Italy, from June 27 to July 1, 1983. The manuscripts have been subjected to minimal editorial modification and are presented for the most part as they were submitted by the authors. In a few cases, where a speaker failed to deliver a manuscript, we have included an abstract of the material presented. The abstracts of the poster presentations, which are becoming an increasingly important part of these Conferences, are included separately in Volume 17A. A special feature of this conference was a separately funded symposium on the biochemical and pharmacological control of calcium modulation. The manuscripts from this symposium are included herein along with all of the other manuscripts.

At the First International Conference, held in Milan fifteen years ago, all of the papers dealt in some way with the formation or actions of cyclic nucleotides. The area has since expanded considerably, and we now recognize protein phosphorylation as a discrete topic, not necessarily related to cyclic nucleotides. Another topic that has also come to be recognized as part of the same field, whether closely related to cyclic nucleotides or protein phosphorylation or not, is the role of calcium as a second messenger. Perhaps still other topics will fall into place by the time of the next Conference, which will be held in Bethesda or Washington in 1986.

We extend our gratitude to Emmanuela Folco and her colleagues at the Fondazione Giovanni Lorenzini for making the conference run so smoothly. We are also grateful as always to Dr. Alan Edelson and his colleagues at Raven Press, and this year offer a special note of thanks to Carol Kirschner for making sure that the manuscripts were handled so expeditiously.

To all readers we offer this volume of *Advances in Cyclic Nucleotide and Protein Phosphorylation Research* as the most comprehensive and up-to-date overview of the field currently available. Our hope is that it will continue to stimulate new and productive research for more than just the next three years.

Paul Greengard
G. Alan Robison
Rodolfo Paoletti
Simonetta Nicosia

Contributors

Mary E. Abood

*Departments of Medicine and
Pharmacology
and Cardiovascular Research Institute
University of California
San Francisco, California 94143*

M. J. P. Adolfs

*Department of Pharmacology
Faculty of Medicine
Erasmus University
5000 DR Rotterdam
The Netherlands*

Klaus Aktories

*Pharmakologisches Institut der
Universität Heidelberg
D-6900 Heidelberg
Federal Republic of Germany*

Hannah Anderson

*Department of Pharmacology
University of Virginia School of
Medicine
Charlottesville, Virginia 22908*

Hadas Arad

*Department of Biological Chemistry
Institute of Life Sciences
The Hebrew University of Jerusalem
91904 Jerusalem, Israel*

Ger H. Bakker

*Department of Biochemistry
(Division of Chemical Endocrinology)
Medical Faculty
Erasmus University
3000 DR, Rotterdam, The Netherlands*

Etienne-Emil Baulieu

*INSERM U 33
Lab Hormones
94270 Bicêtre, France*

Joseph A. Beavo

*Department of Pharmacology
School of Medicine
University of Washington
Seattle, Washington 98195*

R. A. Beer

*Fred Hutchinson Cancer
Research Center
Seattle, Washington 98104*

Barry B. Beiderman

*Departments of Medicine and
Pharmacology
and the Cardiovascular Research
Institute
University of California
San Francisco, California 94143*

Per Belfrage

*Department of Physiological
Chemistry 4
University of Lund
S-220 07 Lund, Sweden*

Judith L. Bender

*Department of Medicine
Brigham and Women's Hospital
Harvard Medical School
Boston, Massachusetts 02115*

F. Bernini

*Institute of Pharmacology and
Pharmacognosy
University of Milan
I-20129 Milan, Italy*

Michael J. Berridge

*ARC Unit of Insect Neurophysiology
and Pharmacology
Department of Zoology
University of Cambridge
Cambridge CB2 3EJ, England*

Melvin Billingsley

*Section of Biochemical Pharmacology
National Heart, Lung, and Blood
Institute
National Institutes of Health
Bethesda, Maryland 20205*

Lutz Birnbaumer

*Department of Cell Biology
Baylor College of Medicine
Houston, Texas 77030*

M. W. Bitensky

*Los Alamos National Laboratory
Life Sciences Division, MS M881
Los Alamos, New Mexico 87545*

Eycke Böhme

*Pharmakologisches Institut der
Universität Heidelberg
Im Neuenheimer Feld 366
D-6900 Heidelberg
Federal Republic of Germany*

Gary M. Bokoch

*Department of Pharmacology
University of Texas Health Science
Center at Dallas
Dallas, Texas 75235*

I. L. Bonta

*Department of Pharmacology
Faculty of Medicine
Erasmus University
3000 DR Rotterdam, The Netherlands*

Henry R. Bourne

*Departments of Medicine and
Pharmacology
and the Cardiovascular Research
Institute
University of California
San Francisco, California 94143*

Pierre Braquet

*IHB Research Laboratories
Le Plessis Robinson, France*

H. Bricaud

*Unité de Cardiologie
U8 INSERM
33600 Pessac, France*

Thierry Buchou

*INSERM U33
Lab Hormones
94270 Bicêtre, France*

A. B. Cachelin

*Department of Pharmacology
University of Bern
CH 3010 Bern, Switzerland*

Kevin P. Campbell

*Department of Physiology and
Biophysics
University of Iowa
Iowa City, Iowa 52242*

Nicola Canal

*Department of Neurology
University of Milan Medical School
Milan, Italy*

Ernesto Carafoli

*Laboratory of Biochemistry
Swiss Federal Institute of
Technology (ETH)
8092 Zurich, Switzerland*

Marc G. Caron

*Howard Hughes Medical Institute
Departments of Medicine, Biochemistry,
and Physiology
Duke University Medical Center
Durham, North Carolina 27710*

J. E. Casnellie

*Department of Pharmacology
University of Washington
Seattle, Washington 98195*

Gerald F. Casperson

*Departments of Medicine and
Pharmacology
and the Cardiovascular Research
Institute
University of California
San Francisco, California 94143*

Monique Castagna

*Department of Biochemistry
Kobe University School of Medicine
Kobe 650 Japan;
and Department of Cell Biology
National Institute for Basic Biology
Okazaki 444, Japan*

Richard A. Cerione

*Howard Hughes Medical Institute
Departments of Medicine, Biochemistry,
and Physiology
Duke University Medical Center
Durham, North Carolina 27710*

Yoav Citri

*Department of Biological Chemistry
The Hebrew University of Jerusalem
Jerusalem 91904, Israel*

Juan Codina

*Pertussis Branch
Food and Drug Administration
Bethesda, Maryland 20205*

Dennis L. Confer

Box 480 Mayo
Department of Internal Medicine
University of Minnesota Hospital
and Clinics
Minneapolis, Minnesota 55455

G. Hope Cook

NIADDK, NIH
Bethesda, Maryland 20205

Jonathan A. Cooper

Molecular Biology and Virology
Laboratory
The Salk Institute
San Diego, California 92138

E. Costa

Laboratory of Preclinical Pharmacology
NIMH
Saint Elizabeths Hospital
Washington, D.C. 20032

Michael J. Cronin

Department of Physiology
University of Virginia School of
Medicine
Charlottesville, Virginia 22908

John W. Daly

Laboratory of Bioorganic Chemistry
National Institutes of Health
Bldg. 4, Room 212
Bethesda, Maryland 20205

D. Daret

Unité de Cardiologie
U8 INSERM
33600 Pessac, France

J. D. Dasgupta

Department of Pharmacology
and Howard Hughes Medical
Institute
Vanderbilt University School of
Medicine
Nashville, Tennessee 37232

P. De Camilli

CNR Center of Cytopharmacology
and Department of Pharmacology
University of Milan
20129 Milan, Italy

Fred De Clerck

Laboratory of Hematology
Janssen Pharmaceutica
B-2340 Beerse, Belgium

Hugo R. DeJonge

Department of Biochemistry I
Medical Faculty
Erasmus University
3000 DR Rotterdam, The Netherlands

J. E. dePeyer

Department of Pharmacology
University of Bern
CH 3010 Bern, Switzerland

C. Delavier

Laboratory for Molecular Immunology
Institut Jacques Monod
CNRS Université Paris VII
F-75251 Paris Cedex 05 France

J. Demond-Henri

Unité de Cardiologie
U8 INSERM
33600 Pessac, France

Javier Diez

INSERM U7
CNRS LA 318
Hôpital Necker
Paris, France

Lien DoKhac

Laboratoire d'Endocrinologie et
Regulations Cellulaires
Institut de Biochimie
Université Paris-Sud
91405 Orsay Cedex, France

B. Dorian

Unité de Cardiologie
U8 INSERM
33600 Pessac, France

J. E. Dumont

Institute of Interdisciplinary Research
School of Medicine
University of Brussels
1070 Brussels, Belgium

O. Durieu

Laboratory for Molecular Immunology
Institute Jacques Monod
CNRS Université Paris VII
F-75251 Paris, Cedex 05, France

John W. Eaton

*Departments of Internal Medicine and
Laboratory Medicine and Pathology
University of Minnesota Hospitals
and Clinics
Minneapolis, Minnesota 55455*

B. Ek

*Departments of Medical and
Physiological Chemistry
and Pathology
University of Uppsala
Uppsala, Sweden*

Elliot L. Elson

*Department of Biological Chemistry
Washington University School of
Medicine
St. Louis, Missouri 63110*

Paul J. England

*Department of Biochemistry
University of Bristol Medical School
Bristol BS8 1TD, United Kingdom*

Raymond L. Erikson

*Department of Pathology
University of Colorado
School of Medicine
Denver, Colorado 80262*

C. Erneux

*Institute of Interdisciplinary Research
School of Medicine
University of Brussels
1070 Brussels, Belgium*

Debra Feder

*Department of Biological Chemistry
Institute of Life Sciences
The Hebrew University of Jerusalem
91904 Jerusalem, Israel*

M. W. J. A. Fieren

*Department of Medicine I
Faculty of Medicine
Erasmus University
3000 DR Rotterdam
The Netherlands*

Javier Forn

*Departamento de Farmacologia
Facultad de Medicina
Casanova 143, Barcelona 36, Spain*

Lodoviso Frattola

*Department of Neurology
University of Milan Medical School
Milan, Italy*

Gudrun Fredrikson

*Department of Physiological
Chemistry 4
University of Lund
S-220 07 Lund, Sweden*

Hitoshi Fujiasawa

*Department of Biochemistry
Asahikawa Medical College
Asahikawa 078-11, Japan*

H. Fukui

*Laboratory of Biochemical Genetics
NHLBI
National Institutes of Health
Bethesda, Maryland 20205*

R. Fumagalli

*Institute of Pharmacology and
Pharmacognosy
University of Milan
I-20129 Milan, Italy*

Alma Gal

*Department of Biological Chemistry
Institute of Life Sciences
The Hebrew University of Jerusalem
91904 Jerusalem, Israel*

Ricardo Garay

*INSERM U7
CNRS LA 318
Hôpital Necker
Paris, France*

David L. Garbers

*Departments of Pharmacology and
Physiology
and Howard Hughes Medical Institute
Vanderbilt University School of
Medicine
Nashville, Tennessee 37232*

Teresa Garcia

*INSERM U33
Lab Hormones
94270 Bicêtre, France*

Jerry D. Gardner

*Digestive Diseases Branch
National Institute of Arthritis, Diabetes,
and Digestive and Kidney Diseases
National Institutes of Health
Bethesda, Maryland 20205*

L. E. Gentry

*Fred Hutchinson Cancer
Research Center
Seattle, Washington 98104*

John S. George

*Los Alamos National Laboratory
Life Sciences Division
University of California
Los Alamos, New Mexico 87545*

Alfred G. Gilman

*Department of Pharmacology
University of Texas Health Science
Center at Dallas
Dallas, Texas 75235*

T. Godfraind

*Laboratoire de Pharmacodynamie
Générale et de Pharmacologie
Université Catholique de Louvain
B-1200 Brussels, Belgium*

Alan R. Goldhammer

*NIADDK, NIH
Bethesda, Maryland 20205*

Robert R. Gorman

*Department of Experimental Sciences
The Upjohn Company
Kalamazoo, Michigan 49001*

Ernst Graf

*Department of Laboratory Medicine
and Pathology
University of Minnesota Hospitals
and Clinics
Minneapolis, Minnesota 55455*

Paul Greengard

*Laboratory of Molecular and Cellular
Neuroscience
The Rockefeller University
New York, New York 10021*

Georg Grossman

*Pharmakologisches Institut der
Universität Heidelberg
D-6900 Heidelberg
Federal Republic of Germany*

A. Guidotti

*Laboratory of Preclinical Pharmacology
National Institute of Mental Health
Saint Elizabeths Hospital
Washington, D.C. 20032*

David P. Hajjar

*Departments of Biochemistry and
Pathology
The New York Hospital-Cornell
Medical Center
New York, New York 10021*

Pavel Hamet

*Clinical Research Institute of Montreal
Université de Montréal
Montreal, Quebec H2W 1R7, Canada*

Ingeborg Hanbauer

*Section of Biochemical Pharmacology
National Heart, Lung, and Blood
Institute
National Institutes of Health
Bethesda, Maryland 20205*

Patrick Hannaert

*INSERM U7
CNRS LA 318
Hôpital Necker
Paris, France*

Simone Harbon

*Laboratoire d'Endocrinologie et
Régulations Cellulaires
Institut de Biochimie
Université Paris-Sud
91405 Orsay Cedex, France*

T. Kendall Harden

*Department of Pharmacology
University of North Carolina at
Chapel Hill
School of Medicine
Chapel Hill, North Carolina 27514*

D. J. Hartshorne

*Muscle Biology Group
Departments of Biochemistry and
Nutrition and Food Science
University of Arizona
Tucson, Arizona 85721*

Mirko Hekman

*Department of Physiological Chemistry
University of Würzburg Medical School
D-8700 Würzburg, Federal Republic of
Germany*

C.-H. Heldin

*Departments of Medical and
Physiological Chemistry and
Pathology
University of Uppsala
Uppsala, Sweden*

Ernst J. M. Helmreich

*Department of Physiological Chemistry
University of Würzburg Medical School
D-8700 Würzburg, Federal Republic of
Germany*

Yoav I. Henis

*Department of Biochemistry
The George S. Wise Faculty of
Life Sciences
Tel Aviv University
Tel Aviv, Israel*

Henri-Gery Hers

*Laboratoire de Chimie Physiologique
Université de Louvain
International Institute of Cellular and
Molecular Pathology
B-1200 Brussels, Belgium*

Joachim Herz

*Pharmakologisches Institut der
Universität Heidelberg
D-6900 Heidelberg
Federal Republic of Germany*

Erik L. Hewlett

*Departments of Medicine and
Pharmacology
University of Virginia School of
Medicine
Charlottesville, Virginia 22908*

H. Higashida

*Laboratory of Biochemical Genetics
NHLBI
National Institutes of Health
Bethesda, Maryland 20205*

John Hildebrandt

*Department of Cell Biology
Baylor College of Medicine
Houston, Texas 77030*

J. Hoebeke

*Laboratory for Molecular Immunology
Institut Jacques Monod
CNRS Université Paris VII
F-75251 Paris, Cedex 05
France*

Nancy K. Hopkins

*Department of Experimental Sciences
The Upjohn Company
Kalamazoo, Michigan 49001*

Tony Hunter

*Molecular Biology and Virology
Laboratory
The Salk Institute
San Diego, California 92138*

Richard L. Hurwitz

*Department of Pharmacology
School of Medicine
University of Washington
Seattle, Washington 98195*

Louis J. Ignarro

*Department of Pharmacology
Tulane University School of Medicine
New Orleans, Louisiana 70112*

M. Ikebe

*Muscle Biology Group
Departments of Biochemistry and
Nutrition and Food Science
University of Arizona
Tucson, Arizona 85721*

Karl H. Jakobs

*Pharmakologisches Institut der
Universität Heidelberg
D-6900 Heidelberg
Federal Republic of Germany*

Robert T. Jensen

*Digestive Disease Branch
National Institute of Arthritis, Diabetes,
and Digestive and Kidney Diseases
National Institutes of Health
Bethesda, Maryland 20205*

Didier Job

*The Fred Hutchinson Cancer
Research Center
Seattle, Washington 98104*

Randolph M. Johnson

Department of Pharmacology
School of Medicine
University of South Carolina
Columbia, South Carolina 29208

H. Kageyama

Laboratory of Preclinical Pharmacology
NIMH
Saint Elizabeths Hospital
Washington, D.C. 20032

Kozo Kaibuchi

Department of Biochemistry
Kobe University School of Medicine
Kobe 650;
and Department of Cell Biology
National Institute for Basic Biology
Okazaki 444, Japan

Toshiaki Katada

Department of Pharmacology
University of Texas Health Science
Center at Dallas
Dallas, Texas 75235;
and Department of Physiological
Chemistry
Faculty of Pharmaceutical Sciences
Hokkaido University
Sapporo 060, Japan

Ushio Kikkawa

Department of Biochemistry
Kobe University School of Medicine
Kobe 650, Japan
and Department of Cell Biology
National Institute for Basic Biology
Okazaki 444, Japan

Jorge Kirilovsky

Department of Biological Chemistry
The Hebrew University of Jerusalem
Jerusalem 91904, Israel

Warner A. Klee

Laboratory of General and Comparative
Biochemistry
National Institute of Mental Health
Bethesda, Maryland 20205

Suzanne Klumpp

Pharmazeutisches Institut
University of Tübingen
D-7400 Tübingen, Federal Republic
of Germany

S. Kokubun

Department of Pharmacology
University of Bern
CH 3010 Bern
Switzerland

Greg Koski

Laboratory of General and Comparative
Biochemistry
National Institute of Mental Health
Bethesda, Maryland 20205

E. G. Krebs

Department of Pharmacology
University of Washington
Seattle, Washington 98195

K. Krueger

Laboratory of Biochemical Genetics
NHLBI
National Institutes of Health
Bethesda, Maryland 20205

Hitoshi Kurose

Department of Physiological Chemistry
Faculty of Pharmaceutical Sciences
Hokkaido University
Sapporo 060, Japan

J. Larrue

Unité de Cardiologie
U8 INSERM
33600 Pessac, France

Marie-Claire Lebeau

INSERM U 33
Lab Hormones
94270 Bicêtre, France

Rehwa H. Lee

Developmental Neurology Laboratory
Veterans Administration Medical
Center
Sepulveda, California 91343

Robert J. Lefkowitz

Howard Hughes Medical Institute
Departments of Medicine, Biochemistry,
and Physiology
Box 3821
Duke University Medical Center
Durham, North Carolina 27710

Denis Leiber

*Laboratoire d'Endocrinologie et
Régulations Cellulaires
Institut de Biochimie
Université Paris-Sud
91405 Orsay Cedex, France*

Stephen H. Leppla

*U.S. Army Medical Research Institute
of Infectious Diseases
Fort Detrick
Frederick, Maryland 21701*

Alexander Levitzki

*Department of Biological Chemistry
Institute of Life Sciences
The Hebrew University of Jerusalem
91904 Jerusalem, Israel*

P. A. Liebman

*Department of Anatomy
School of Medicine
University of Pennsylvania
Philadelphia, Pennsylvania 19104*

Alice H. Lin

*Department of Experimental Sciences
The Upjohn Company
Kalamazoo, Michigan 49001*

Thomas M. Lincoln

*Department of Pharmacology
School of Medicine
University of South Carolina
Columbia, South Carolina 29208*

Richard N. Lolley

*Developmental Neurology Laboratory
Veterans Administration Medical
Center
Sepulveda, California 91343*

Constantine Londos

*NIADDK, NIH
Bethesda, Maryland 20205*

David H. MacLennan

*Banting and Best Department of
Medical Research
C.H. Best Institute
University of Toronto
112 College Street
Toronto, Ontario M5G 1L6, Canada*

Charles Manclark

*Department of Cell Biology
Baylor College of Medicine
Houston, Texas 77030*

Robert L. Margolis

*The Fred Hutchinson Cancer
Research Center
1124 Columbia Street
Seattle, Washington 98104*

Maurizio Memo

*Section of Biochemical Pharmacology
National Heart, Lung and Blood
Institute
National Institutes of Health
Bethesda, Maryland 20205*

Jan Mester

*INSERM U33
Lab Hormones
94270 Bicêtre, France*

David Mills

*Department of Biochemistry
University of Bristol Medical School
Bristol BS8 1TD, England*

Ryohei Miyake

*Department of Biochemistry
Kobe University School of Medicine
Kobe 650, Japan*

Joel Moss

*Laboratory of Cellular Metabolism
National Heart, Lung and Blood
Institute
National Institutes of Health
Bethesda, Maryland 20205*

Alexander Mülsch

*Pharmakologisches Institut der
Universität Heidelberg
Im Neuenheimer Feld 366
D-6900 Heidelberg
Federal Republic of Germany*

Toshihiko Murayama

*Department of Physiological Chemistry
Faculty of Pharmaceutical Sciences
Hokkaido University
Sapporo 060, Japan*

Gwendolyn A. Myers

*Department of Internal Medicine
University of Virginia School
of Medicine
Charlottesville, Virginia 22908*

Tsutomu Nakamura

*Kyoto Research Laboratories
Kaken Pharmaceutical Company
Yamashina, Kyoto 607, Japan*

Hiroyasu Nakata

*Department of Biochemistry
Asahikawa Medical College
Asahikawa 078-11, Japan*

G. Nassart

*Institute of Interdisciplinary Research
School of Medicine
University of Brussels
1070 Brussels, Belgium*

Corinne Nazaret

*INSERM U7
CNRS LA 318
Hôpital Necker
Paris, France*

Eva J. Neer

*Department of Medicine
Brigham and Women's Hospital
Harvard Medical School
Boston, Massachusetts 02115*

Eric J. Nestler

*Department of Pharmacology
Yale University School of Medicine
New Haven, Connecticut 06510*

Gera Neufeld

*Department of Biological Chemistry
The Hebrew University of Jerusalem
Jerusalem 91904, Israel*

S. Nicosia

*Institute of Pharmacology and
Pharmacognosy
University of Milan
I-20129 Milan, Italy*

M. Nirenberg

*Laboratory of Biochemical Genetics
NHLBI
National Institutes of Health
Bethesda, Maryland 20205*

Yasutomi Nishizuka

*Department of Biochemistry
Kobe University School of Medicine
Kobe 650, Japan;
and Department of Cell Biology
National Institute for Basic Biology
Okazaki 444, Japan*

Katsumi Nogimori

*Kyoto Research Laboratories
Kaken Pharmaceutical Company
Yamashina, Kyoto 607, Japan*

John K. Northup

*Department of Pharmacology
University of Calgary Faculty
of Medicine
Calgary, Alberta, Canada*

Fujio Numano

*Department of Internal Medicine
Tokyo Medical and Dental University
School of Medicine
Yushima, Tokyo, Japan*

Sachiko Okuno

*Department of Biochemistry
Asahikawa Medical College
Asahikawa 078-11, Japan*

D. Oliva

*Institute of Pharmacology and
Pharmacognosy
University of Milan
I-20129 Milan, Italy*

Håkan Olsson

*Department of Physiological
Chemistry 4
University of Lund
S-220 07 Lund, Sweden*

Stephen C. Pang

*Clinical Research Institute of Montreal
Université de Montreal
Montreal, Quebec H2W 1R7, Canada*

S. Scott Panter

*Dight Institute of Human Genetics
University of Minnesota Hospitals
and Clinics
Minneapolis, Minnesota 55455*

Helen T. Pask

*Department of Biochemistry
University of Bristol Medical School
Bristol BS8 1TD, England*

Richard D. Pearson

*Department of Internal Medicine
University of Virginia School of
Medicine
Charlottesville, Virginia 22908*

John P. Perkins

*Department of Pharmacology
University of North Carolina at
Chapel Hill
School of Medicine
Chapel Hill, North Carolina 27514*

A. Persechini

*Muscle Biology Group
Departments of Biochemistry and
Nutrition and Food Science
University of Arizona
Tucson, Arizona 85721*

T. Pozzan

*Institute of General Pathology
University of Padua
35100 Padua, Italy*

T. T. Quach

*Laboratory of Preclinical Pharmacology
NIMH
Saint Elizabeths Hospital
Washington, D.C. 20032*

Mark M. Rasenick

*University of Illinois
College of Medicine
Chicago, Illinois 60680*

Jack-Michel Renoit

*INSERM U 33
Lab Hormones
94270 Bicêtre, France*

H. Reuter

*Department of Pharmacology
University of Bern
CH 3010 Bern, Switzerland*

Thomas J. Rimele

*Department of Physiology and
Biophysics
Mayo Clinic and Mayo Foundation
Rochester, Minnesota 55905*

T. J. Rink

*Physiological Laboratory
University of Cambridge
Cambridge CB2 3EG, England*

Gideon A. Rodan

*Department of Oral Biology
University of Connecticut Health Center
School of Dental Medicine
Farmington, Connecticut 06032*

Sevgi B. Rodan

*Department of Oral Biology -
University of Connecticut Health Center
School of Dental Medicine
Farmington, Connecticut 06032*

Martin Rodbell

*Section on Membrane Regulation
Bldg. 6, Rm B-1 26
National Institutes of Health
Bethesda, Maryland 20205*

P. Roger

*Institute of Interdisciplinary Research
School of Medicine
University of Brussels
1070 Brussels, Belgium*

L. R. Rohrschneider

*Fred Hutchinson Cancer
Research Center
Seattle, Washington 98104*

Focko F. G. Rommerts

*Department of Biochemistry
(Division of Chemical Endocrinology)
Medical Faculty, Erasmus University
3000 DR, Rotterdam, The Netherlands*

Thom W. Rooke

*Department of Physiology and
Biophysics
Mayo Clinic and Mayo Foundation
Rochester, Minnesota 55905*

A. Rotter

*Laboratory of Biochemical Genetics
NHLBI
National Institutes of Health
Bethesda, Maryland 20205*

Kimihiko Sano

Department of Biochemistry
Kobe University School of Medicine
Kobe 650;
and Department of Cell Biology
National Institute for Basic Biology
Okazaki 444, Japan

Pondichery Satyaswaroop

Department of Oncology
Milton S. Hershey Medical Center
Hershey, Pennsylvania 17033

Emile Van Schaftingen

Laboratoire de Chimie Physiologique
Université de Louvain
and International Institute of Cellular
and Molecular Pathology
B-1200 Brussels, Belgium

Emil Schiltz

Department of Physiological Chemistry
University of Würzburg Medical School
D-8700 Würzburg, Federal Republic of
Germany

A. Schmutz

Laboratory for Molecular Immunology
Institut Jacques Monod
CNRS Université Paris VII
F-75251 Paris, Cedex 05
France

Michael Schramm

Department of Biological Chemistry
The Hebrew University of Jerusalem
Givat Ram Campus
Jerusalem 91904, Israel

Günter Schultz

Pharmakologisches Institut der
Universität Heidelberg
D-6900 Heidelberg
Federal Republic of Germany

Joachim E. Schultz

Pharmazeutisches Institut
University of Tübingen
Auf der Morgenstelle 8
D-7400 Tübingen, Federal Republic
of Germany

Joan P. Schwartz

Laboratory of Preclinical Pharmacology
NIMH
Saint Elizabeths Hospital
Washington, D.C. 20032

Kenneth B. Seamon

National Center for Drugs and
Biologics/FDA
Bldg. 29, Room 516
Bethesda, Maryland 20205

Ronald D. Sekura

Department of Cell Biology
Baylor College of Medicine
Houston, Texas 77030

S. Shenolikar

Department of Pharmacology
University of South Alabama
Mobile, Alabama 36688
and
Division of Endocrinology and
Department of Internal Medicine
University of Texas Medical School
at Houston
Houston, Texas 77025

A. Sitaramayya

Department of Anatomy
School of Medicine
University of Pennsylvania
Philadelphia, Pennsylvania 19104

William F. Simonds

Laboratory of General and Comparative
Biochemistry
National Institute of Mental Health
Bethesda, Maryland 20205

Arne S. Slungaard

Department of Internal Medicine
University of Minnesota Hospital
and Clinics
Minneapolis, Minnesota 55455

Murray Smigel

Department of Pharmacology
University of Texas Health Science
Center at Dallas
Dallas, Texas 75235

Joseph T. Spence

Department of Biochemistry
School of Medicine
State University of New York at Buffalo
Buffalo, New York 14214