

# CLINICAL NEUROSURGERY

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VOLUME 53



# CLINICAL NEUROSURGERY





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Printed in the United States of America  
(ISSN: 0069-4827)

# CLINICAL NEUROSURGERY

*Volume 53*

*Proceedings*

OF THE  
CONGRESS OF NEUROLOGICAL  
SURGEONS

Boston, Massachusetts  
2005

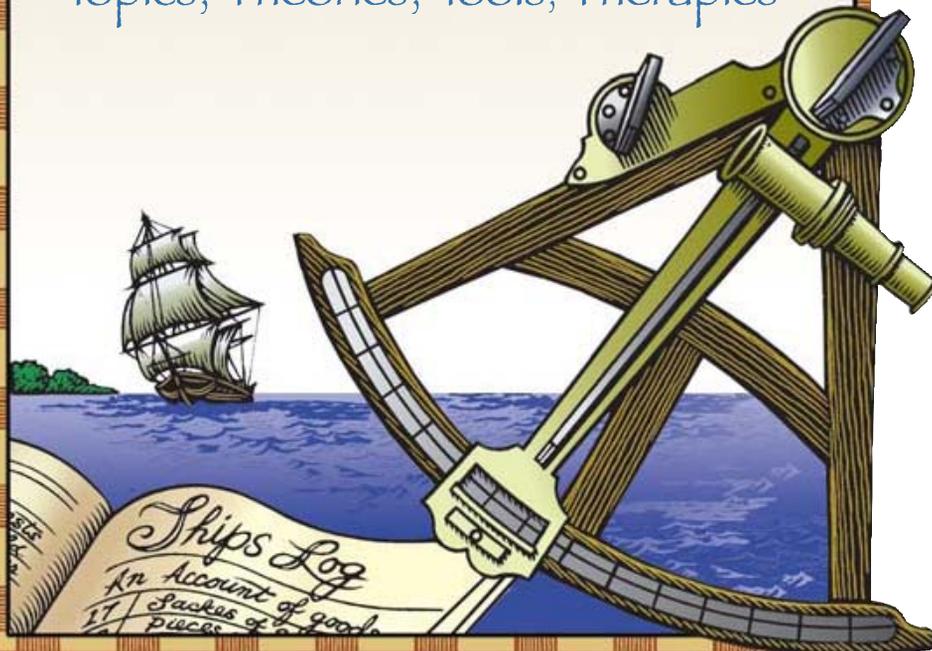


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# *Quo Vadis?*

Topics, Theories, Tools, Therapies



**OCTOBER 8-13, 2005**  
**Congress of Neurological Surgeons**  
**55TH ANNUAL MEETING**  
**BOSTON, MASSACHUSETTS**

## Preface

The 55th Annual Meeting of the Congress of Neurological Surgeons was held at the Hynes Convention Center in Boston, Massachusetts from October 8 to October 13, 2005. Volume 53 of *Clinical Neurosurgery* represents the official compilation of the invited scientific manuscripts from the plenary sessions, the biographic and bibliographic information of the honored guest, and the presidential address. The program theme of “Quo Vadis” was subdivided sequentially into “Topics,” “Theories,” “Tools,” and “Therapies.”

The Annual Meeting Chairman, Dr. Christopher Wolfla, and the Scientific Program Chairman, Dr. Christopher Getch, organized and led this outstanding, well-attended meeting. This year’s Honored Guest, Dr. Roberto Heros, presented aspects of his lifelong neurosurgical work in a series of lectures on cerebral aneurysms, AVMs, and hemodilution and fluid management. The Presidential Address, by Dr. Nelson Oyesiku, provided a fascinating talk on civilization, entitled “Homogeneity and Heterogeneity: Lessons from Nature and Society.” The list of special lecturers was stellar and included Nobel Laureate Professor Wole Soyinka, who gave the Walter E. Dandy Oration, entitled “Rapture and Rupture in the Liminal World;” Professor Ian Wilmut on “Cells from Cloned Embryos in Research and Therapy;” Professor Vilayanur Ramachandran, who talked on the “Neurology of Human Nature;” Professor Sidney Watkins on “The Physiology and Pathology of Motor Racing: Triumph and Tragedy in Formula One;” and Professor Robert Langer on “Polymers in the Delivery of Drug Treatments.”

Our congratulations go out to the Annual Meeting Committee for their outstanding efforts in putting together such a superb conference. We would like to thank all of the contributors to *Clinical Neurosurgery* for their timely dedication to this volume. We also express our sincerest gratitude to Jennifer Sollenberger at Lippincott Williams and Wilkins for diligently compiling all the manuscripts into their final form to make this volume a reality. We thank the CNS and its membership for the honor of serving as co-Editors of Volume 53. This has been a transition year for *Clinical Neurosurgery*, as Dr. Grant takes over the helm full time. Due to his commitment serving in the United States Air Force in Iraq, the two of us served as co-Editors for this volume. Dr. Grant will be taking over as Editor-in-Chief effective the 56th Annual Meeting in Chicago. We look forward to seeing you there for an innovative educational program.

*Guy McKhann II, M.D.*  
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## Contributors

Manish Aghi, M.D., Ph.D.  
Department of Neurosurgery  
Massachusetts General Hospital  
Harvard Medical School  
Charlestown, Massachusetts

Franklin Aigbirhio, Ph.D.  
Wolfson Brain Imaging Centre  
University of Cambridge  
Cambridge, England

Joshua M. Ammerman, M.D.  
Surgical Neurology Branch  
National Institute of Neurological Disorders and Stroke  
National Institutes of Health  
Bethesda, Maryland  
Department of Neurological Surgery  
George Washington University Medical Center  
Washington, D.C.

Tipu Z. Aziz, D.Med.Sci.  
Department of Neurosurgery  
Radcliffe Infirmary  
Oxford, England  
University Laboratory of Physiology  
University of Oxford  
Oxford, England

Peter G. Bain, F.R.C.P.  
Division of Neurosciences and Mental Health  
Imperial College of London  
London, England

Danielle Baleriaux, M.D.  
Department of Neurosurgery  
Erasmus Hospital-ULB  
Brussels, Belgium

Nicholas M. Barbaro, M.D.  
Department of Neurological Surgery  
University of California, San Francisco  
San Francisco, California

Gene H. Barnett, M.D.  
Department of Neurosurgery  
Brain Tumor Institute  
The Cleveland Clinic Tausig Cancer Center  
Cleveland, Ohio

Mustafa K. Baskaya, M.D.  
Department of Neurological Surgery  
University of Miami School of Medicine  
Miami, Florida

Edward C. Benzel, M.D.  
Spine Institute  
Spine Research Laboratory  
The Cleveland Clinic Foundation  
Cleveland, Ohio

Erica F. Bisson, M.D.  
Division of Neurological Surgery  
University of Vermont  
Burlington, Vermont

Keith L. Black, M.D.  
Maxine Dunitz Neurosurgical Institute  
Cedars-Sinai Medical Center  
Los Angeles, California

Nicolas M. Boulis, M.D.  
Department of Neurosurgery  
Lerner College of Medicine  
The Cleveland Clinic Foundation  
Cleveland, Ohio

Charles Leon Branch, Jr., M.D.  
Wake Forest University  
Baptist Medical Center  
Winston-Salem, North Carolina

Jacques Brotchi, M.D., Ph.D.  
Department of Neurosurgery  
Erasmé Hospital-ULB  
Brussels, Belgium

Michael Bruneau, M.D.  
Department of Neurosurgery  
Erasmé Hospital-ULB  
Brussels, Belgium

Ross Bullock, M.D., Ph.D.  
Department of Neurosurgery  
Harold F. Young Neurosurgery Center  
Virginia Commonwealth University  
Richmond, Virginia

John A. Butman, M.D., Ph.D.  
Diagnostic Radiology Department  
Warren G. Magnusson Clinical Center  
National Institutes of Health  
Bethesda, Maryland

Nicholas A. Butowski, M.D.  
Department of Neurological Surgery  
University of California, San Francisco  
San Francisco, California

Joaquin Camara-Quintana, B.S.  
Department of Neurological Surgery  
University of California, San Francisco  
San Francisco, California

Thomas Adrian Carpenter, Ph.D.  
Wolfson Brain Imaging Centre  
University of Cambridge  
Cambridge, England

Susan M. Chang, M.D.  
Department of Neurological Surgery  
University of California, San Francisco  
San Francisco, California

Jason S. Cheng, B.S.  
Department of Neurological Surgery  
University of California, San Francisco  
San Francisco, California

Martin Coleman, Ph.D.  
Division of Academic Neurosurgery  
Wolfson Brain Imaging Centre  
University of Cambridge  
Cambridge, England

E. Sander Connolly, M.D.  
Department of Neurological Surgery  
Columbia University  
New York, New York

James Dambrosia, Ph.D.  
Biostatistics Branch  
National Institute of Neurological Disorders and Stroke  
National Institutes of Health  
Bethesda, Maryland

Judith Dinsmore, F.R.C.A.  
Department of Neuroanesthesia  
St. George's Hospital  
London, England

Andrew F. Ducruet, M.D.  
Department of Neurological Surgery  
Columbia University  
New York, New York

Robert D. Ecker, M.D.  
Department of Neurosurgery and Toshiba Stroke Research Center  
School of Medicine and Biomedical Sciences  
University at Buffalo, State University of New York  
Buffalo, New York

Michael R. Egnor, M.D.  
Department of Neurosurgery  
State University of New York, Stony Brook  
Stony Brook, New York

Aaron Fleischman, Ph.D.  
Department of Biomedical Engineering  
The Cleveland Clinic Foundation  
Cleveland, Ohio

Fred H. Geisler, M.D., Ph.D.  
Illinois Neuro-Spine Center  
Rush-Copley Hospital  
Aurora, Illinois

Philip L. Goldenberg, M.D., Ph.D.  
Departments of Neurosurgery and Radiation Oncology  
Baylor Medical College  
Houston, Texas

Charlotte Gilman, R.N.  
Department of Neurosurgery  
Harold F. Young Neurosurgery Center  
Virginia Commonwealth University  
Richmond, Virginia

Rainer Glass, Ph.D.  
Cellular Neuroscience Group  
Max Delbruck Center for Molecular Medicine (MDC)  
Berlin, Germany

Alexander L. Green, M.R.C.S.  
Department of Neurosurgery  
Radcliffe Infirmary  
Oxford, England  
University Laboratory of Physiology  
University of Oxford  
Oxford, England

Mark N. Hadley, M.D., F.A.C.S.  
Division of Neurological Surgery  
University of Alabama at Birmingham  
Birmingham, Alabama

Roberto C. Heros, M.D., F.A.C.S.  
Department of Neurological Surgery  
University of Miami School of Medicine  
Miami, Florida

Eric J. Heyer, M.D., Ph.D.  
Department of Anesthesiology  
Columbia University  
New York, New York

L. Nelson Hopkins, M.D.  
Departments of Neurosurgery and Radiology and Toshiba Stroke Research  
Center  
School of Medicine and Biomedical Sciences  
University at Buffalo, State University of New York  
Buffalo, New York

Ramin Javahary, M.D.  
Department of Neurological Surgery  
University of Miami School of Medicine  
Miami, Florida

Andrew Jea, M.D.  
Department of Neurological Surgery  
University of Miami School of Medicine  
Miami, Florida

Mark Kayanja, M.D., Ph.D.  
Spine Research Laboratory  
Department of Biomedical Engineering  
The Cleveland Clinic Foundation  
Cleveland, Ohio

Helmut Kettenmann, Ph.D.  
Cellular Neuroscience Group  
Max Delbruck Center for Molecular Medicine (MDC)  
Berlin, Germany

Paul Keetae Kim, M.D.  
Department of Neurosurgery  
Wake Forest-Bowman Gray School of Medicine  
Winston-Salem, North Carolina

Juergen Kiwit, M.D.  
Department of Neurosurgery  
Helios Hospital Berlin  
Berlin, Germany

David G. Kline, M.D.  
Department of Neurosurgery  
Louisiana State University  
New Orleans, Louisiana

Christopher J. Koebe, M.D.  
Department of Neurological Surgery  
Jefferson Hospital for Neuroscience  
Thomas Jefferson Univerity  
Philadelphia, Pennsylvania

Ricardo J. Komotar, M.D.  
Department of Neurological Surgery  
Columbia University  
New York, New York

Nikki Kunene, M.Sc.  
Department of Information Systems  
Virginia Commonwealth University  
Richmond, Virginia

Jeffrey J. Laurent, M.D.  
Division of Neurological Surgery  
University of Alabama at Birmingham  
Birmingham, Alabama

Florence Lefranc, M.D., Ph.D.  
Department of Neurosurgery  
Erasmus Hospital-ULB  
Brussels, Belgium

Elad I. Levy, M.D.  
Departments of Neurosurgery and Radiology and Toshiba Stroke Research  
Center  
School of Medicine and Biomedical Sciences  
University at Buffalo, State University of New York  
Buffalo, New York

Muh Lii Liang, M.D.  
Division of Neurosurgery  
The Hospital for Sick Children  
University of Toronto  
Toronto, Ontario, Canada

Mary Limbo, B.A.  
Department of Neurological Surgery  
University of California, San Francisco  
San Francisco, California

Kenneth W. Lindsay, Ph.D., F.R.C.S.  
Department of Neurosurgery  
Institute of Neurological Sciences  
Southern General Hospital  
Glasgow, Scotland

Gentao Liu, Ph.D.  
Maxine Dunitz Neurosurgical Institute  
Cedars-Sinai Medical Center  
Los Angeles, California

Xuguang Liu, Ph.D.  
Division of Neurosciences and Mental Health  
Imperial College of London  
London, England

Russell R. Lonser, M.D.  
Surgical Neurology Branch  
National Institute of Neurological Disorders and Stroke  
National Institutes of Health  
Bethesda, Maryland

Anne Luptrawan, M.S.N., N.P.  
Maxine Dunitz Neurosurgical Institute  
Cedars-Sinai Medical Center  
Los Angeles, California

R. Loch MacDonald, M.D., Ph.D.  
Department of Surgery  
Univeristy of Chicago Hospitals  
Chicago, Illinois

Robert J. Maciunas, M.D., M.P.H., F.A.C.S.  
Departments of Neurosurgery, Radiation, and Radiation Oncology  
University Hospitals of Cleveland  
Case Medical School  
Cleveland, Ohio

William J. Mack, M.D.  
Department of Neurological Surgery  
Columbia University  
New York, New York

Joseph R. Madsen  
Deaprtment of Neurosurgery  
Children's Hospital  
Boston, Massachusetts

Henry T. Marsh, F.R.C.S.  
St. George's Hospital  
London, United Kingdom

Robert L. Martuza, M.D.  
Department of Neurosurgery  
Massachusetts General Hospital  
Harvard Medical School  
Charlestown, Massachusetts

Anna Mazzeo, M.D.  
Department of Neurosurgery  
Harold F. Young Neurosurgery Center  
Virginia Commonwealth University  
Richmond, Virginia  
Department of Neuroscience, Psychiatric, and Anesthesiological Sciences  
Univeristy of Messina  
Messina, Italy

Guy M. McKhann II, M.D.  
Department of Neurological Surgery  
Columbia University  
New York Presbyterian Hospital  
New York, New York

Rajiv Midha, M.D., M.Sc., F.R.C.S.C.  
Department of Clinical Neurosciences  
Division of Neurosurgery  
University of Calgary and Foothills Medical Centre  
Calgary, Alberta, Canada

J Mocco, M.D.  
Department of Neurological Surgery  
Columbia University  
New York, New York

Jacques J. Morcos, M.D., F.R.C.S. (Eng.), F.R.C.S. (Ed.)  
Department of Neurological Surgery  
University of Miami School of Medicine  
Miami, Florida

Mary Murphy, F.R.C.S.(SN)  
Department of Neurosurgery  
St. George's Hospital  
London, England

Richard B. North, M.D.  
Departments of Neurosurgery, Anesthesiology, and Critical Care Medicine  
The Johns Hopkins University School of Medicine  
Baltimore, Maryland

Edward H. Oldfield, M.D.  
Surgical Neurology Branch  
National Institute of Neurological Disorders and Stroke  
National Institutes of Health  
Bethesda, Maryland

Adrian Owen, Ph.D.  
MRC Cognition and Brain Sciences Unit  
Cambridge, England

Sarah L.F. Owen, B.A.  
University Laboratory of Physiology  
University of Oxford  
Oxford, England

Nelson M. Oyesiku, M.D, Ph.D., F.A.C.S.  
Department of Neurosurgery  
Emory University  
Atlanta, Georgia

Aditya Pandey, M.D.  
Department of Neurological Surgery  
Jefferson Hospital for Neuroscience  
Thomas Jefferson University  
Philadelphia, Pennsylvania

David J. Paterson, D.Phil.  
University Laboratory of Physiology  
University of Oxford  
Oxford, England

John Pickard, M.Chir., F.R.C.S., F.Med.Sci.  
Division of Academic Neurosurgery  
Wolfson Brain Imaging Centre  
University of Cambridge  
Cambridge, England

Samuel Rabkin, Ph.D.  
Department of Neurosurgery  
Massachusetts General Hospital  
Harvard Medical School  
Charlestown, Massachusetts

Daniel K. Resnick, M.D.  
Department of Neurological Surgery  
University of Wisconsin  
Madison, Wisconsin

Jonathan Riley, B.S.E.  
Department of Neurosurgery  
Lerner College of Medicine  
The Cleveland Clinic Foundation  
Cleveland, Ohio

Robert H. Rosenwasser, M.D., F.A.C.S.  
Department of Neurological Surgery  
Jefferson Hospital for Neuroscience  
Thomas Jefferson University  
Philadelphia, Pennsylvania

Shuvo Roy, Ph.D.  
Department of Biomedical Engineering  
The Cleveland Clinic Foundation  
Cleveland, Ohio

James T. Rutka, M.D., Ph.D., F.R.C.S.C.  
Division of Neurosurgery  
The Hospital for Sick Children  
University of Toronto  
Toronto, Ontario, Canada

Rod Samuelson, M.D.  
Department of Neurosurgery  
Harold F. Young Neurosurgery Center  
Virginia Commonwealth University  
Richmond, Virginia

Rene O. Sanchez-Mejia, M.D.  
Department of Neurological Surgery  
University of California, San Francisco  
San Francisco, California

Robert R. Sciacca, Eng.Sc.D.  
Department of Medicine  
Columbia University  
New York, New York

Rishi N. Sheth, M.D.  
Department of Neurological Surgery  
University of Miami School of Medicine  
Miami, Florida

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Nobel Prize in Literature, 1986

Robert J. Spinner, M.D.  
Departments of Neurologic Surgery, Orthopedics, and Anatomy  
Mayo Clinic  
Rochester, Minnesota

John F. Stein, F.R.C.P  
University Laboratory of Physiology  
University of Oxford  
Oxford, England

Wale A.R. Sulaiman, M.D., Ph.D.  
Section of Neurosurgery  
University of Manitoba  
Winnipeg, Canada

Ali Sultan, M.D.  
Department of Neurological Surgery  
University of Miami School of Medicine  
Miami, Florida

Michael Synowitz, M.D.  
Department of Neurosurgery  
Helios Hospital Berlin  
Berlin, Germany  
Cellular Neuroscience Group  
Max Delbrück Center for Molecular Medicine (MDC)  
Berlin, Germany

Matthew I. Tomey, B.A.  
Department of Neurological Surgery  
Columbia University  
New York, New York

Vincent C. Traynelis, M.D.  
Department of Neurosurgery  
University of Iowa Hospitals and Clinics  
University of Iowa Carver College of Medicine  
Iowa City, Iowa

Ramachandra P. Tummala, M.D.  
Department of Neurological Surgery  
University of Miami School of Medicine  
Miami, Florida

Alex B. Valadka, M.D., F.A.C.S.  
Department of Neurosurgery  
University of Texas Medical School  
Houston, Texas

Erol Veznedaroglu, M.D.  
Department of Neurological Surgery  
Jefferson Hospital for Neuroscience  
Thomas Jefferson University  
Philadelphia, Pennsylvania

Shouyan Wang, Ph.D.  
University Laboratory of Physiology  
University of Oxford  
Oxford, England

Mariann M. Ward, R.N., M.S.  
Department of Neurological Surgery  
University of California, San Francisco  
San Francisco, California

Eric S. Watkins, O.B.E., M.D., D.Sc., F.R.C.S.  
Federations du Sport L'automobile  
Paris, France  
Department of Neurosurgery  
University of London  
London, England

Astrid Weyerbrock, M.D.  
Division of Neurosurgery  
The Hospital for Sick Children  
University of Toronto  
Toronto, Ontario, Canada

Peter R. Wilkins, F.R.C.P.  
Department of Neuropathology  
St. George's Hospital  
Oxford, England

David A. Wilson, B.S.  
Department of Neurological Surgery  
Columbia University  
New York, New York

Stacey Quintero Wolfe, M.D.  
Department of Neurosurgery  
University of Miami  
Miami, Florida

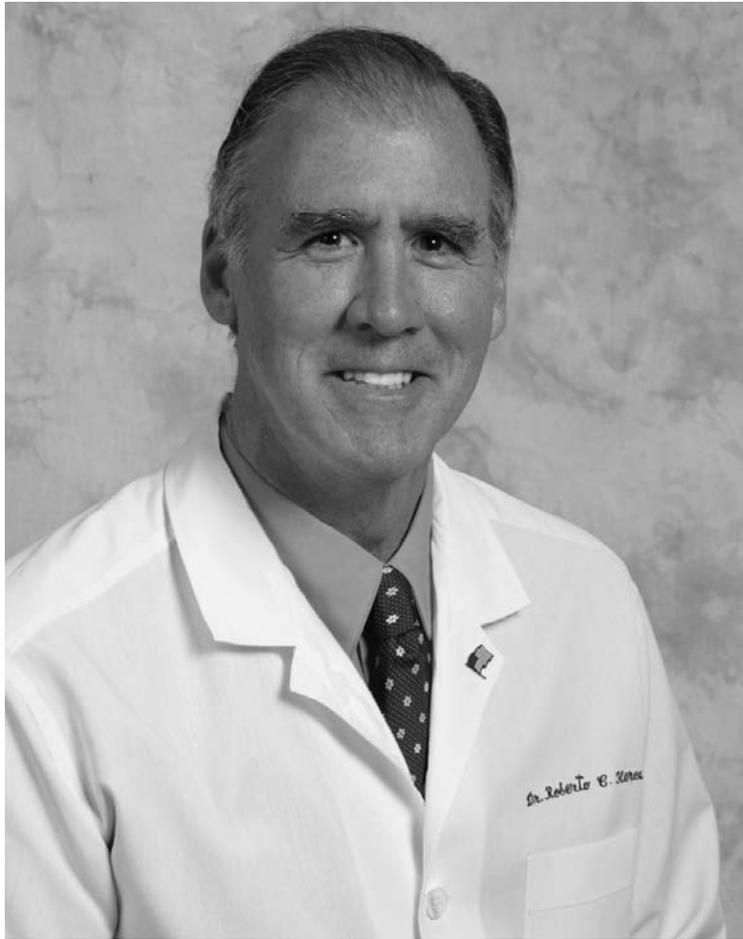
Kangning Xie, M.Sc.  
University Laboratory of Physiology  
University of Oxford  
Oxford, England

Harold F. Young, M.D.  
Department of Neurosurgery  
Harold F. Young Neurosurgery Center  
Virginia Commonwealth University  
Richmond, Virginia

John S. Yu, M.D.  
Maxine Dunitz Neurosurgical Institute  
Cedars-Sinai Medical Center  
Los Angeles, California

Joseph Zurica, B.A.  
Department of Anesthesiology  
Columbia University  
New York, New York

Rui Zou  
Department of Neurosurgery  
Children's Hospital  
Boston, Massachusetts



ROBERTO C. HEROS

## Biography

Roberto C. Heros was born in 1942 in Havana, Cuba. After the Communist takeover in 1960, he left Cuba for exile. He participated as a paratrooper platoon commander in the Bay of Pigs invasion and was captured. After serving 2 years in prison, Dr. Heros was released as a result of an exchange with the United States Government. He attended medical school at the University of Tennessee where he graduated, first in his class, in 1968.

Dr. Heros completed his internship and his first year general surgery residency at the Massachusetts General Hospital in Boston and then served as Major for 2 years in the United States Air Force. He then completed his residency in neurosurgery at the Massachusetts General Hospital, Harvard Medical School, before moving to the University of Pittsburgh as an Assistant Professor. He moved back to Massachusetts General Hospital in 1980 to become Director of Cerebrovascular Surgery. Dr. Heros moved through the academic ranks at Harvard to reach full professorship in 1989, at which time he moved to the University of Minnesota as the Lyle A. French Professor and Chairman of the Department of Neurosurgery. He moved to the University of Miami in 1995 as Professor, Co-Chairman, and Program Director of the Department of Neurosurgery and the founding Director of the University of Miami International Health Center.

Dr. Heros has authored or co-authored four textbooks and has published nearly 150 refereed articles and approximately 70 textbook chapters dealing with cerebral aneurysms, arteriovenous malformations, experimental cerebral ischemia, and cranial base surgical approaches. His research has been in the area of cerebral protection from ischemia, particularly with hemodilution. He held National Institutes of Health funding as primary investigator in this area for 12 years and served both in Study Sections and, later, as a full member of the National Advisory Council of the National Institute of Neurologic Disorders and Stroke (1995–1998).

Dr. Heros has been Visiting Professor at more than 50 institutions in this country and abroad, and he has delivered more than 500 invited national and international presentations. He holds honorary memberships in several Latin American and European neurosurgical societies and is also Honorary Member of the Japan Neurosurgical Society. He has been Chairman of the Editorial Board of *Neurosurgery* and currently serves on the Editorial Boards of seven journals, including the *Journal of Neurosurgery*. He was the founding Chairman of the National “Brain Attack” Coalition and was the first Chairman of the Neurovascular Committee of the World Federation of Neurosurgical Societies. He is Past President of the American Academy of Neurological Surgeons and the American Association of Neurological Surgery. He has been the Honored Guest of the Federation of Latin American Neurosurgical Societies and the Italian Neurosurgical Society and, this year, he is the “Honored Guest” of the Congress of Neurological Surgeons. He has been elected as the President of the Congress of the World Federation of Neurosurgical Societies, which will take place in Boston in 2009.

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