

24th PRINCETON CONFERENCE ON CEREBROVASCULAR DISEASE

April 2-4, 2004

Baltimore Marriott Waterfront Hotel

Organizer: Richard J. Traystman, Ph.D.

Friday, April 2

Noon – 2:00 pm Registration

2:00 – 2:10 pm Welcome Richard J. Traystman, PhD
Portland, OR

SESSION I: VASCULAR DEMENTIA

Chairpersons: Vladimir Hachinski, MD, London, Ontario

Costantino Iadecola, MD, New York, NY

2:10 – 2:15 pm Introduction Costantino Iadecola, MD
New York, NY

2:15 – 2:30 pm Amyloid Related and Vascular
Dementias Steven M. Greenberg, MD
Boston, MA

2:30 – 2:45 pm Epidemiology of Alzheimer's
and Vascular Dementias Phillip B. Gorelick, MD,
MPH, Chicago, IL

2:45 – 3:00 pm Circle of Willis Atherosclerosis
in Alzheimer's Patients Alexander E. Roher, MD,
PhD, Sun City, AZ

3:00 – 3:15 pm Clearing Amyloid-B Through
the Blood-Brain Barrier Berislav V. Zlokovic, MD
PhD, Rochester, NY

3:15 – 3:40 pm Discussion

3:40 – 4:10 pm COFFEE BREAK

SESSION II: MULTIMODAL IMAGING

Chairpersons: Geoffrey A. Donnan, MD, Victoria, Australia

Michael E. Moseley, PhD, Stanford, CA

4:10 – 4:15 pm Introduction Michael E. Moseley, PhD
Stanford, CA

4:15 – 4:30 pm What is the Future of
Multimodal Imaging in Stroke? Bruce R. Rosen, MD, PhD
Boston, MA

4:30 – 4:45 pm	High Resolution MRI and Neurophysiological Monitoring	Fahmeed Hyder, Ph.D. New Haven, CT
4:45 – 5:00 pm	Molecular Imaging: NIR and Other Modalities	Arno Villringer, M.D. Berlin, Germany
5:00 – 5:15 pm	MR Multimodal Imaging	Thomas J. Meade, Ph.D. Chicago, IL
5:15 – 5:40 pm	Discussion	
5:40 – 6:40 pm	Special Lecture: Aquaporin Water Channels: From Atomic Structure to Clinical Medicine	Peter C. Agre, M.D. Baltimore, MD Nobel Prize in Chemistry 2003
6:40 – 8:00 pm	BREAK AND DINNER	

SESSION III: SEX, STEROIDS AND STROKE

**Chairpersons: Patricia D. Hurn, PhD, Portland, OR
Ralph L. Sacco, MD, New York, NY**

8:00 – 8:05 pm	Introduction	Ralph L. Sacco, MD New York, NY
8:05 – 8:20 pm	Hormones and Stroke: Clinical Trials Review	Lawrence M. Brass, MD New Haven, CT
8:20 – 8:35 pm	Estradiol as a Neuroprotectant	Patricia D. Hurn, PhD Portland, OR
8:35 – 8:50 pm	Estrogen-Like Compounds for Ischemic Neuroprotection	James W. Simpkins, PhD Ft. Worth, TX
8:50 – 9:05 pm	Estradiol and Migraine	Marie Germaine-Bousser, M.D. Paris, France
9:05 – 9:30 pm	Discussion	

Saturday, April 3

7:00 – 8:00 am	Continental Breakfast	
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SESSION IV: ISCHEMIC PENUMBRA

Chairpersons: Marc Fisher, MD, Boston, MA

Myron D. Ginsberg, MD, Miami, FL

8:00 – 8:05 am	Introduction	Marc Fisher, MD, Boston, MA
8:05 – 8:20 am	Imaging and Identification of the Penumbra	Steven Warach, MD, PhD Bethesda, MD
8:20 – 8:35 am	Distinguishing Reversible From Irreversible Tissue Injury	Chelsea Kidwell, MD Los Angeles, CA
8:35 – 8:50 am	Molecular Identification of Penumbra	Frank Sharp, MD Cincinnati, OH
8:50 – 9:05 am	Microcirculation in Penumbra	W. Dieter-Heiss, M.D. Cologne, Germany
9:05 – 9:30 am	Discussion	
9:30 – 10:00 am	COFFEE BREAK	

SESSION V: ISCHEMIC PRE-CONDITIONING

Chairpersons: Antoine M. Hakim, MD, PhD, Ottawa, ON

Roger P. Simon, MD, Portland, OR

10:00 – 10:05 am	Introduction	Roger P. Simon, MD, Portland, OR
10:05 – 10:20 am	Hypoxic Pre-Conditioning in Heart	Roberto Bolli, MD Louisville, KY
10:20 – 10:35 am	Clinical Evidence for Pre-Conditioning	S. Claiborne Johnston, MD PhD, San Francisco, CA
10:35 – 10:50 am	Translation of Pre-Conditioning to the Patient	Rajiv R. Ratan, MD, PhD Boston, MA
10:50 – 11:05 am	Genomics of Pre-Conditioning	Mary Stenzel-Poore, PhD Portland, OR
11:05 – 11:30 am	Discussion	
11:30 am – 12:45 pm	LUNCH	

SESSION VI: RECOVERY AND REHABILITATION IN STROKE

**Chairpersons: Pamela W. Duncan, PhD, Gainesville, FL
Randolph J. Nudo, PhD, Kansas City, KS**

12:45 – 12:50 pm	Introduction	Pamela W. Duncan, PhD Gainesville, FL
12:50 – 1:05 pm	Progenitor Cells	Olle Lindvall, M.D., Ph.D. Lund, Sweden
1:05 – 1:20 pm	Functional Imaging in Recovery	Steven C. Cramer, MD Irvine, CA
1:20 – 1:35 pm	Forced Use – Constraint Therapy Trials	James C. Grotta, MD Houston, TX
1:35 – 1:50 pm	Brain – Robotic Interface	Gerhard Friehs, M.D. Providence, RI
1:50 – 2:15 pm	Discussion	
2:15 – 2:45 pm	COFFEE BREAK	

SESSION VII: STATINS AND STROKE

**Chairpersons: Kyra Becker, MD, Seattle, WA
Michael Chopp, PhD, Detroit, MI**

2:45 – 2:50 pm	Introduction	Michael Chopp, PhD Detroit, MI
2:50 – 3:05 pm	How Statins Work in Vessels and Neurons	Michael A. Moskowitz, MD Boston, MA
3:05 – 3:20pm	Effects of Statins on Endothelium and Signaling Mechanisms	Matthias Endres, MD Berlin, Germany
3:20 – 3:35 pm	Anti-Inflammatory Effects of Statins	David J. Lefer, Ph.D. Shreveport, LA
3:35 – 3:50 pm	Blood Vessel Inflammation in Stroke	Thomas DeGraba, M.D. Bethesda, MD
3:50 – 4:15 pm	Discussion	
4:15 – 4:45 pm	COFFEE BREAK	

SESSION VIII: CLOT LYSIS AND THROMBOLYSIS

**Chairpersons: Joseph P. Broderick, MD, Cincinnati, OH
Patrick D Lyden, MD, San Diego, CA**

4:45 – 4:50 pm	Introduction	Patrick D. Lyden, MD Cincinnati, OH
4:50 – 5:05 pm	Imaging Clots	Randall B. Lauffer, Ph.D. Cambridge, MA
5:05 – 5:20 pm	Extraction of Clots	Stanley L. Barnwell, MD Portland, OR
5:20 – 5:35 pm	Ultrasound Enhanced Identification and Lysis of Clots	Andrei V. Alexandrov, MD Houston, TX
5:35 – 5:50 pm	Hemorrhage and Injurious Effects of Lytics	Eng H. Lo, PhD Boston, MA
5:50 – 6:15 pm	Discussion	
6:15 – 6:45 pm	BREAK	
6:45 – 9:45 pm	DINNER AND 1 OR 2 SHORT LECTURE	

Sunday, April 4

7:00 – 8:00 am	Continental Breakfast	
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SESSION IX: GENOMICS – PROTEOMICS RELATIONSHIP TO STROKE

**Chairpersons: Valina L. Dawson, PhD, Baltimore, MD
Katrina Gwinn-Hardy, M.D., Baltimore, MD**

8:00 – 8:05 am	Introduction	Katrina Gwinn-Hardy, M.D. Bethesda, MD
8:05 – 8:20 am	Multiple Genes in Stroke	Eric Boerwinkle, PhD Houston, TX
8:20 – 8:35 am	Clinically Translated Stroke Proteomics	James F. Meschia, MD Jacksonville, FL
8:35 – 8:50 am	Phosphodiesterase 4B and Risk of Stroke	Kári Stéfansson, M.D., Dr. Med. Reykjavik, Iceland

8:50 – 9:05 am	Genetics of Arterio-Venous Malformations	William L. Young, MD San Francisco, CA
9:05 – 9:30 am	Discussion	
9:30 – 10:00 am	COFFEE BREAK	

SESSION X: EMERGING STROKE THERAPIES

**Chairpersons: Werner Hacke, MD, Heidelberg, Germany
Helmi Lutsep, MD, Portland, OR**

10:00 – 10:05 am	Introduction	Helmi Lutsep, M.D. Portland, OR
10:05 – 10:20 am	New Therapies for Intracerebral Hemorrhage	Lewis B. Morgenstern, MD Ann Arbor, MI
10:20 – 10:35 am	Fast Track Therapy for Drugs	Junying Yuan, Ph.D. Boston, MA
10:35 – 10:50 am	Future Targets and Cascades for Neuroprotective Strategies	Pak H. Chan, Ph.D. Palo Alto, CA
10:50 – 11:05 am	Prevention is Also Therapy	J. Donald Easton, MD Providence, RI
11:05 – 11:30 am	Discussion	
11:30 – 11:40 am	Conclusion and Adjournment	Richard J. Traystman, Ph.D. Portland, OR