

# International Stroke Conference 2008

## Basic Science

*Please check back often for the most up-to-date session information in this segment of science including oral abstract presentations.*

**Wednesday, February 20**

**7:30 – 9:00 a.m.**

**Session I: Concurrent Symposia A**  
**How to Make Stroke Models Matter**  
**Room RO-2**

**Moderators:** Thaddeus Nowak, PhD, Memphis, Tenn.  
David Howells, PhD, Melbourne, Australia

**7:30 Quality Control for Modeling**  
Ulrich Dirnagl, Berlin, Germany

**7:45 From In Vitro to In Vivo: Models of Cerebral Ischemia**  
Miguel A Perez-Pinzon, PhD, Miami, Fla.

**8:00 Role of Gender in Animal and Cell Models of Stroke**  
Patricia D Hurn, PhD, FAHA, Portland, Ore.

**8:15 Physiologic Control and Hyperglycemia in Stroke Models**  
Thomas A Kent, MD, FAHA, Houston, Texas

**8:30 Genes, Species and Translation**  
Richard J Traystman, PhD, FAHA, Denver, Colo.

**8:45 Discussion**

**Session I: Concurrent Symposia C**  
**Clinical Approaches to Brain Repair after Stroke**  
**Hall B 2-2**

**Moderators:** Steven C Cramer, MD, Orange, Calif.  
Sean I Savitz, MD, FAHA, Houston, Texas

**7:30 Modulating Specific Neurotransmitter Systems**  
Steven C Cramer, MD, Orange, Calif.

**7:50 Task-Oriented Training**  
Carolee J Winstein, PhD, PT, FAPTA, Los Angeles, Calif.

**8:10 Electromagnetic Brain Stimulation**  
Leonardo Cohen, MD, Bethesda, Md.

**8:30 Cellular Therapies**  
Sean I Savitz, MD, FAHA, Houston, Texas

**8:50 Discussion**

**Session I: Concurrent Symposia D**  
**Cognitive Implications of "Mixed" Cerebrovascular and Alzheimer's Disease**  
**Room La Louisiane C**

**Moderators: Sandra Black, MD, FAHA, Toronto, Canada**  
**David Nyenhuis, PhD, Chicago, Ill.**

**7:30 Interactions between Cerebral Ischemia and Beta-amyloid Toxicity in a Rodent Model: Implications for "Mixed" AD and CVD**  
David F Cechetto, PhD, London, Ontario, Canada

**7:50 Voxel-based Morphometric Differences between Patients with Amnesic MCI and Vascular CIND**  
Glenn T Stebbins, PhD, Chicago, Ill.

**8:10 The Epidemiology of Mixed AD and Cerebrovascular Disease**  
David Nyenhuis, PhD, Chicago, Ill.

**8:30 Treatment Options for Patients with Mixed AD and Cerebrovascular Disease**  
Sandra Black, MD, FAHA, Toronto, Canada

**8:50 Discussion**

**Session I: Concurrent E**  
**Oral Abstract Presentations: Hemorrhage – Intraparenchymal**  
**Room La Louisiane A/B**

**Moderators: Mark P Goldberg, St. Louis, Mo.**  
**Edward M Manno, MD, FAHA, Rochester, Minn.**

**7:42 Microbleeds Versus Macroleeds: Evidence for Distinct Processes 2**  
Steven M Greenberg, R. N. Kaveer Nandigam, David Schoenfeld, Hui Zhang, Massachusetts General Hosp, Boston, MA; Rebecca A. Betensky, Harvard Sch of Public Health, Boston, MA; Jonathan Rosand, Anand Viswanathan, Eric E. Smith, Massachusetts General Hosp, Boston, MA

**8:06 Polymorphisms in the Aquaporin 4 and Thrombin protease-activated receptors gene are related to Edema Volume In Patients With Acute Intracerebral Hemorrhage 4**  
Yolanda Silva, Sebastian Remollo, Judith Mallolas, Hosp Dr Josep of Girona, Girona, Spain; Natalia Pérez de la Ossa, Hosp Germans Trias i Pujol, Badalona, Spain; Mar Castellanos, Verónica Cruz, Hosp Dr Josep of Girona, Girona, Spain; Florentino Nombela, Hosp de la Princesa, Madrid, Spain; José Castillo, Hosp Clínico Univrio, Santiago de Compostela, Spain; Joaquín Serena, Hosp Dr Josep of Girona, Girona, Spain

**8:42 Discussion**

**9:00 am – 9:10 am**  
**Short Break**

**9:10 am – 10:40 am**

**Session II: Concurrent E**  
**Oral Abstract Presentations: Experimental Ischemia I**  
**Room RO-2**

**Moderators: Miguel A Perez-Pinzon, PhD, Miami, Fla.  
Nabil J Alkayed, MD, PhD, Portland, Ore.**

**9:22 NADPH Oxidase from Circulating Inflammatory Cells Exacerbates Injury in Experimental Stroke 23**

Xian Nan Tang, UCSF & SF VAMC, Stanford Univ, San Francisco, CA; Zhen Zheng, UCSF & SF VAMC, San Francisco, CA; Nick Cairns, Combinix, Inc., Mountain View, CA; Belinda Cairns, Combinix, Inc, Mountain View, CA; Rona G. Giffard, Stanford Univ, Stanford, CA; Midori A. Yenari, UCSF & SF VAMC, San Francisco, CA

**9:34 Mast Cells Are Early Responders After Hypoxia-ischemia In Immature Rat Brain 24**

Yuxuan Jin, Susan J Vannucci, Ann-Judith Silverman, Columbia Univ Medical Ctr, New York, NY

**9:46 Key Role of the Scavenger Receptor CD36 in Postischemic Inflammation and Ischemic Brain Injury 25**

Alexander Kunz, Dept. of Neurology, Univ Hosp, Dresden, Germany; Takato Abe, Karin Hochrainer, Josef Anrather, Gianfranco Racchumi, Ping Zhou, Costantino Iadecola, Div. of Neurobiology, Weill Cornell Medical Coll, New York, NY

**10:10 Timing Of MGE Cell Transplantation After Distal Middle Cerebral Artery Occlusion Significantly Influences The Cell-host Interaction 27**

Hideo Shichinohe, Marcel M Daadi, Nobutaka Horie, Theo D Palmer, Tonya Bliss, Gary K Steinberg, Stanford Univ, Stanford, CA

**10:22 Resveratrol Preconditioning Induced Neuroprotection Is Mediated Via Sirt1-Uncoupling Protein 2 Pathway. 28**

David Della Morte, Kunjan R Dave, Miguel A Perez-Pinzon, Univ of Miami, Miami, FL

**10:34 Discussion**

**10:40 am – 11:10 am  
Exhibits/Break  
Hall A**

**11:10 am – 12:45 pm**

**Session III: Plenary Session I  
Hall B 2**

**Moderators: Philip B Gorelick, MD, MPH, FACP, Chicago, Ill.  
Patricia D Hurn, PhD, FAHA, Portland, Ore.**

**11:10 Conference Opening**  
Philip B Gorelick, MD, MPH, FACP, Chicago, Ill.

**11:15 American Heart Association/American Stroke Association President's Remarks**  
Daniel W Jones, MD, FAHA, Jackson, Miss.

**11:20 Introduction of the Thomas Willis Lecture**  
Philip B Gorelick, MD, MPH, FACP, Chicago, Ill.

**11:25 Thomas Willis Lecture**  
**Reperfusion and Neurovascular Dysfunction in Stroke: From Basic Mechanisms to Potential Strategies for Neuroprotection**

Pak H Chan, PhD, FAHA, Stanford, Calif.

**11:45 A Tribute to Dr. David Sherman**

**Plenary Symposium**

**Blood to Save Brain: Endothelial Precursors, Stem Cells and Angiogenesis for Brain Repair**

**Moderators:** Eng H Lo, PhD, Charlestown, Mass.  
Zvonimir S Katusic, MD, PhD, FAHA, Rochester, Minn.

**11:55 Introduction**

Eng H Lo, PhD, Charlestown, Mass.  
Zvonimir S Katusic

**12:00 Circulating Endothelial Precursors and Therapeutic Angiogenesis**

Zvonimir S Katusic, MD, PhD, FAHA, Rochester, Minn.

**12:05 Integrated Responses in Neurovasculogenesis after Stroke**

S. Thomas Carmichael, MD, Los Angeles, Calif.

**12:25 Functional or Dysfunctional Angiogenesis in Acute Stroke?**

Partick Lyden, MD, FAAN, San Diego, Calif.

**12:45 pm – 2:00 pm**

**Exhibits and Lunch Break**

**Hall A**

**Nursing and Rehabilitation Professions Roundtable Luncheon (ticket required; seating is limited)**

**Room 208 – 210**

**Fellow and Early Career/Stroke Leader Luncheon (ticket required; seating is limited)**

**Room 220 - 222**

**2:00 pm – 3:30 pm**

**3:30 pm – 4:00 pm**

**Exhibits/Break**

**Hall A**

**4:00 pm – 5:30 pm**

**5:30 pm – 7:30 pm**

**Poster Session I/Reception**

**Hall B 1**

**Thursday, February 21**

**7:30 am – 9:00 am**

**Session VI: Concurrent D**

**Oral Abstract Presentations: Experimental Ischemia II**

**Room La Louisiane C**

**Moderators:** Jun Chen, MD, Pittsburgh, Pa.  
Marilyn Cipolla, PhD, MS, FAHA, Burlington, Vt.

**7:42 Intracarotid Delivery Of CD49d FACS Sorted Neural Stem Cells Enhances Angiogenesis And Improves Functional Outcome After Experimental Stroke 51**

Raphael Guzman, Alejandro De Los Angeles, Kevin Choo, Xavier Gaeta, Joey Cote, Samuel Cheshier, Gary K Steinberg, Stanford Univ, Palo Alto, CA

**7:54 Sex Differences in micro-RNA Expression in Cerebral Ischemia 52**

Chad Siegel, Fudong Liu, Louise D McCullough, Univ Connecticut Health Ctr, Farmington, CT

**8:06 The Role of Toll-Like Receptor(TLR) Signaling in Ischemic Preconditioning 53**

Bolanle M Famakin, Yongshan Mou, Ryo Ohtani, Christl A Ruetzler, John M Hallenbeck, Natl Insts, Bethesda, MD

**8:42 HSP27 Protects Against Neuronal Ischemia via Attenuation of Mitochondrial Signaling Pathways 56**

R Anne Stetler, Guodong Cao, Zhongfang Wang, Feng Zhang, Univ of Pittsburgh, Pittsburgh, PA; Yanqin Gao, Fudan Univ, Shanghai, China; Jun Chen, Univ of Pittsburgh, Pittsburgh, PA

**8:54 Discussion**

**9:00 am – 9:10 am**

**Short Break**

**9:10 am – 10:40 am**

**Session VII: Concurrent Symposia B**

**Immunomodulation**

**Room La Louisiane C**

**Moderators:** Ulrich Dirnagl, Berlin, Germany  
Kyra Becker, MD, Seattle, Wash.

**9:10 Autoimmunity in Stroke**

Kyra Becker, MD, Seattle, Wash.

**9:30 To Be or Not To Be, That Is the Question: Pericytes**

Paula Dore-Duffy, Detroit, Mich.

**9:50 Post-Stroke Immunodepression**

Ulrich Dirnagl, Berlin, Germany

**10:10 Killing the Messenger: Stroke Effects on Peripheral Immune System**

Patricia D Hurn, PhD, FAHA, Portland, Ore.

**10:30 Discussion**

**Session VII: Concurrent D**

**Oral Abstract Presentations: Vascular Cognitive Impairment**

**Room RO-2**

**Moderators:** Jacob S Elkins, MD, San Francisco, Calif.  
Steven M Greenberg, MD, PhD, Boston, Mass.

**9:10 Hypertension is Associated with Hippocampal Sclerosis 64**  
Amytis Towfighi, Ling Zheng, Univ of Southern California, Los Angeles, CA; William Ellis, Univ of California, Davis, CA; Wendy Mack, Univ of Southern California, Los Angeles, CA; Harry V. Vinters, Univ of California, Los Angeles, CA; Helena C. Chui, Chris Zarow, Univ of Southern California, Los Angeles, CA

**9:22 Morphological Changes of Cortical Sulci in Cerebral Small Vessel Diseases: a 3D MRI Study in CADASIL 65**  
Eric Jouvent, Dept of neurology, Hop Lariboisiere, Paris, France; Jean-Francois Mangin, Neurospin, I2BM, Saclay, France; Raphael Porcher, Dept of Biostatistics, Hop Saint-Louis, Paris, France; Anand Viswanathan, Dept of neurology and Clinical Trials Unit, Massachussets General Hosp and Harvard Medical Sch, Boston, MA; Mike O'Sullivan, Dept of neurology, Klinikum Grosshadern, Ludwig-Maximilians-Univ, Munich, Germany; Jean-Pierre Guichard, Dept of radiology, Hop Lariboisiere, Paris, France; Martin Dichgans, Dept of neurology, Klinikum Grosshadern, Ludwig-Maximilians-Univ, Munich, Germany; Marie-Germaine Bousser, Hugues Chabriat, Dept of neurology, Hop Lariboisiere, Paris, France

**9:46 Heterogeneity In The Relationships Between Blood Pressure, White Matter Lesion Volume And Cognitive Function In Patients With Small Vessel 67**  
Jonathan Birns, King's Coll London Sch of Med, London, United Kingdom; Jozef Jarosz, King's Coll Hosp, London, United Kingdom; Robin Morris, Inst of Psychiatry, London, United Kingdom; Hugh Markus, St George's, Univ of London, London, United Kingdom; Lalit Kalra, King's Coll London Sch of Med, London, United Kingdom

**9:58 Tissue Microstructural Changes Are Independently Associated with Pre-Index Cognitive Impairment in Survivors of Lobar Intracerebral Hemorrhage 68**  
Anand Viswanathan, Pratik Patel, Rosanna Rahman, R. N. Nandigam, Catherine Kinnecom, Massachusetts General Hosp, Boston, MA; Luc Bracoud, Bio-Imaging Technologies SAS, Lyon, France; Jonathan Rosand, Massachusetts General Hosp, Boston, MA; Hugues Chabriat, Dept of Neurology, CHU Lariboisière, Assistance Publique des Hôpitaux de Paris, Paris, France; Steven M. Greenberg, Eric E. Smith, Massachusetts General Hosp, Boston, MA

**10:22 Cortical Grey Matter Volume is Reduced in Patients at High-Risk for Vascular Events 70**  
Nerses Sanossian, Ling Zheng, Wendy Mack, Univ of Southern California, Los Angeles, CA; Michael W Weiner, Univ of California San Fransisco, San Fransisco, CA; William J Jagust, Univ of California, Berkely, Berkeley, CA; Charles C DeCarli, Dan Mungas, Univ of California, Davis, Sacramento, CA; Bruce R Reed, Univ of California, Davis, Martinez, CA; Joel H Kramer, Univ of California San Fransisco, San Fransisco, CA; Helena C Chui, Univ of Southern California, Los Angeles, CA

**10:34 Discussion**

**Session VII: Concurrent E**  
**Oral Abstract Presentations: Pediatric Stroke**  
**Hall B 2-2**

**Moderators: Warren Lo, Columbus, MD, Ohio**  
**Meredith R Golomb, MD, MS, Indianapolis, Ind.**

**10:10 Nitrate Stress Induces Cerebral Microvascular Degeneration Via The Production Of *Trans*-Arachidonic Acids: Role Of Hypercapnia 76**  
Jean-Claude Honore, Amna Kooli, Elsa Kermorvant-Duchemin, Sainte-Justine Res Ctr, Montreal, QC, Canada; Florian Sennlaub, INSERM U598 - Ctr des Cordeliers, Paris, France; Michael

Balazy, Dept of Pharmacology - New York Medical Coll, Valhalla, NY; Sylvain Chemtob, Sainte-Justine Res Ctr, Montreal, QC, Canada

**10:22 Secretary Phospholipase A<sub>2</sub> is Involved in Hypoxic Cerebrovascular Injury in the Newborn Piglet** **77**

Ferenc Bari, Aliz Zimmermann, Univ of Szeged, Szeged, Hungary; Jana Pardeike, Free Univ, Berlin, Germany; Eszter Farkas, Ferenc Domoki, Univ of Szeged, Szeged, Hungary

**10:34 Discussion**

**10:40 am – 11:10 am**

**Exhibits/Break  
Hall A**

**11:10 am – 12:45 pm**

**Session VIII: Plenary Session II  
Hall B 2**

**Moderators: Philip B Gorelick, MD, MPH, FACP, Chicago, Ill.  
Patricia D Hurn, PhD, FAHA, Portland, Ore.**

**11:10 Siekert and Globus Award Presentations**

Patricia D Hurn, PhD, FAHA, Portland, Ore.

**Presentation of the Robert G Siekert New Investigator Award**

Pooja Khatri, MD, Cincinnati, Ohio

(Presenting oral abstract 130 - Good Outcome after Technically Successful Intra-Arterial Therapy is Time-Dependent - on Friday morning.)

**Presentation of the Mordecai Y T Globus New Investigator Award**

Hans Worthmann, MD, Hannover, Germany

(Presenting oral abstract 84 - Early Inflammation after TIA or Ischemic Stroke: Different MMP-9 Time Courses predict Stroke Severity – on Thursday afternoon.)

**11:20 Introduction of the William M Feinberg Award for Excellence in Clinical Stroke**

Philip B Gorelick, MD, MPH, FACP, Chicago, Ill.

**11:25 William M Feinberg Award for Excellence in Clinical Stroke Lecture  
Prioritizing Research in Stroke**

S Claiborne Johnston, MD, PhD, San Francisco, Calif.

**11:45 A Tribute to Julian Hoff**

**Plenary Symposium**

**Cerebral Hemorrhage: An Overview**

**Moderators: Frank Sharp, MD, Sacramento, Calif.  
E Sander Connolly, Jr, MD, New York, N.Y.**

**11:50 Mechanisms of Secondary Injury After Cerebral Hemorrhage**

Guohua Xi, MD, Ann Arbor, Mich.

**12:45 pm – 2:00 pm**

**Exhibits and Lunch Break  
Hall A**

**Fellow and Early Career Luncheon: How to be Successful in Obtaining Independent Grant Funding**  
(ticket required; seating is limited)  
Room 220 - 222

2:00 pm – 3:30 pm

**Session IX: Concurrent E**  
**Oral Abstract Presentations: Community/Risk Factors**  
Room La Louisiane C

**Moderators: Robert J Adams, MD, Charleston, S.C.**  
**Karen Furie, MD, FAHA, Boston, Mass.**

**3:00 Gene Variants Previously Associated With Coronary Heart Disease: Association With Incident Ischemic Stroke in the Cardiovascular Health Study 97**  
May M. Luke, CELERA, Alameda, CA; Ellen S. O'Meara, Univ of Washington, Seattle, WA; Charles M. Rowland, Lance A. Bare, Dov Shiffman, CELERA, Alameda, CA; Thomas Lumley, Kenneth Rice, Univ of Washington, Seattle, WA; Andre R. Arellano, CELERA, Alameda, CA; Russell P. Tracy, Univ of Vermont, Colchester, VT; James J. Devlin, CELERA, Alameda, CA; Bruce M. Psaty, Univ of Washington, Seattle, WA

**3:12 Analysis of the Age-at-Onset Phenotype in a Pilot Genome-Wide Association Study of Ischemic Stroke 98**  
Bradford B Worrall, Univ of Virginia, Charlottesville, VA; W Mark Brown, Wake Forest Sch of Med, Winston-Salem, NC; Thomas G Brott, Mayo Clinic, Jacksonville, FL; Robert D Brown Jr, Mayo Clinic, Rochester, MN; John Hardy, Queen Square, London, United Kingdom; Mar Matarin, Natl Inst of Aging, Bethesda, MD; Stephen S Rich, Univ of Virginia, Charlottesville, VA; Andrew Singleton, Natl Inst of Aging, Bethesda, MD; James F Meschia, Mayo Clinic, Jacksonville, FL; for the Ischemic Stroke Genetics Study (ISGS) Investigators

**3:24 Discussion**

**3:30 pm – 4:00 pm**  
**Exhibits/Break**  
**Hall A**

**4:00 pm – 5:30 pm**

**Session X: Concurrent Symposia A**  
**PPAR-Gamma: A New Target for Stroke?**  
Room La Louisiane A/B

**Moderators: Jaroslaw Aronowski, MS, PhD, Houston, Texas**  
**Frank M Faraci, PhD, FAHA, Iowa City, Iowa**

**4:00 PPAR and Molecular Targets in Vascular Biology**  
Ernesto L Schiffrin, MD, PhD, FRSC, FRCPC, FACP, Montreal, Canada

**4:20 Impact of PPAR-gamma in the Cerebral Circulation**  
Frank M Faraci, PhD, FAHA, Iowa City, Iowa

**4:40 PPAR-gamma and Neuroinflammation**

Jaroslav Aronowski, MS, PhD, Houston, Texas

**5:00 PPAR-gamma Agonists and Acute Stroke Therapy**

Maria Moro, PhD, Madrid, Spain

**5:20 Discussion**

**5:30 pm - 7:30 pm**

**Poster Session II/Reception**

**Hall B 1**

**Friday, February 22**

**7:15 am – 8:00 am**

**Council Awards Breakfast**

**Hall B 2**

**Annual Business**

**2007 Distinguished Achievement Award Presentation**

**Debate: Stenting vs. Endarterectomy for Carotid Stenosis**

**Moderator: TBD**

**Stenting:** Pierre B. Fayad, M.D., FAHA, Omaha, Neb.

**Endarterectomy:** E. Sander Connolly, Jr., M.D., New York, N.Y.

**8:00 am - 8:10 am**

**Short Break**

**8:10 am– 9:40 am**

**Session XI: Concurrent Symposia B**

**Molecular Biology and Genetics of Brain Aneurysms and AVMs**

**Room RO-6**

*This session has been jointly organized by the American Stroke Association, AANS/CNS Cerebrovascular Section and the American Society of Interventional and Therapeutic Neuroradiology.*

**Moderators: Colin Derdeyn, MD, FAHA, St. Louis, Mo.**

**Gregory J Zipfel, MD, St. Louis, Mo.**

**8:10 Molecular Biology of Brain AVMs**

William L Young, MD, San Francisco, Calif.

**8:30 Genetics of Brain AVMs - Hereditary Hemorrhagic Telangiectasia: Genetic Clues to the Pathophysiology of Brain AVMs**

Michelle Letarte, Toronto, Canada

**8:50 Cellular Response to Endovascular Aneurysm Treatment**

David F Kallmes, MD, Rochester, Minn.

**9:10 Gene Therapy and Endovascular Treatment of Intracranial Aneurysms**

Jean Raymond, MD, Montreal, Canada

**9:30 Discussion**

**Session XI: Concurrent C**

**Oral Abstract Presentations: Chairs' Choice I: High Profile Research That You Want to Know**

**Room La Louisiane A/B**

**Moderator: Philip B Gorelick, MD, MPH, FACP, Chicago, Ill.**

**9:22 Variants in The Monocyte Chemoattractant Protein-1 (MCP-1) and Chemokine Receptor-2 (CCR2) Genes Act Synergistically to Increase the Risk of Carotid Atherosclerosis** **126**

Paul A Nyquist, Johns Hopkins, Baltimore, MD; Cherie A winkler, Natl Cancer Inst, Frederick, MD; Louise M McKenzie, Natl Cancer Inst, Baltimore, MD; Lisa R Yanek, Lewis C Becker, Diane M Becker, Johns Hopkins, Baltimore, MD

**9:34 Discussion**

**9:40 am - 9:50 am**

**Short Break**

**9:50 am - 11:20 am.**

**Session XII: Concurrent Symposia A**

**The Ischemic Penumbra: Cellular Concepts to Clinical Trials**

**Room La Louisiane C**

**Moderators: Midori A Yenari, MD, San Francisco, Calif.  
Chelsea Kidwell, MD, Washington, DC**

**9:50 Introduction**

**9:55 New Molecular Targets in the Ischemic Penumbra**

Frank Sharp, BS, MD, Sacramento, Calif.

**10:10 Neurovascular Signaling in the Experimental Penumbra**

Cenk Ayata, MD, Boston, Mass.

**10:25 Multimodality MRI of Experimental Stroke**

Timothy Duong, Atlanta, Ga.

**10:45 Assessing the Penumbra for Clinical Trials**

Stephen M Davis, MD, MBBS, FRCP, Melbourne, Australia

**11:10 Discussion**

**Session XII: Concurrent C**

**Oral Abstract Presentations: Chairs' Choice II: A Last Taste of Research at ISC 2008**

**Room La Louisiane A/B**

**Moderators: Patricia D Hurn, PhD, FAHA, Portland, Ore.  
Lewis B Morgenstern, MD, Ann Arbor, Mich.**

**10:38 High Resolution Copy Number Variation Analysis of Sporadic and Familial CCM**

**Patients** 146  
Yasar Bayri, Winson S Ho, Kaya Bilguvar, Michael DiLuna, Mohamad Bydon, Lindsay A Collins, Fatih Bayrakli, Christopher E Mason, Matthew W State, Murat Gunel, Yale Univ Sch of Med, New Haven, CT

**10:50 Transplantation Of Adipose Tissue-derived Stem Cells In Cerebral Ischemia: Enhanced Angiogenesis By Functional Stem Cells And Feasibility Of Autologous Transplantation** 147  
Kon Chu, Soon-Tae Lee, Keun-Hwa Jung, Eun-Cheol Song, Hee-Kwon Park, Jeong-Min Kim, Jin-Hee Kim, Jae-Sung Lim, Kyung-Mook Kang, Nan-Hyung Hong, Jun-Young Chang, Sang Kun Lee, Manho Kim, Jae-Kyu Roh, Seoul Natl Univ Hosp, Seoul, Republic of Korea

**11:02 Discussion**

**Session XII: Concurrent E**  
**Oral Abstract Presentations: Cerebrovascular Vessel Biology**  
**Room RO-2**

**Moderators: Colin Derdeyn, MD, FAHA, St. Louis, Mo.**  
**Gregory J Zipfel, MD, St. Louis, Mo.**

**9:50 The Balance Between The Expression Of Cd36 And Abca1 Favors Lipid Accumulation In Ulcerated Carotid Plaques** 155  
Pia M Isoviita, Krista Nuotio, Riitta Turunen, Jani Saksi, Petra Ijäs, Biomedicum Helsinki, Helsinki, Finland; Petri Kovanen, Wihuri Res Inst, Helsinki, Finland; Markku Kaste, Perttu J Lindsberg, Dept of Neurology, Helsinki, Finland

**10:02 C-reactive Protein Exerts Potent Angiogenic Effects On Vascular Endothelial Cells** 156  
Jerzy Krupinski, Marta M Turu, Hosp Univri de Bellvitge,, Barcelona, Spain; Sabine Matou, Manchester Metropolitan Univ, Manchester, United Kingdom; Cristina Rodriguez, Jose Martinez-Gonzalez, Lina Badimon, CSIC-ICCC, Barcelona, Spain; Ana Luque, Hosp Univri de Bellvitge,, Barcelona, Spain; Mark Slevin, Manchester Metropolitan Univ, Manchester, United Kingdom

**10:14 Early Blood Brain Barrier Disruption Is Associated With Plasma Matrix Metalloproteinase-9 Concentration In Acute Stroke Patients** 157  
Taura L. Barr, Natl Insts of Neurological Disorders and Stroke, Natl Inst of Nursing Res, Natl Insts of Health, Bethesda, MD; Lawrence L Latour, Kyung-Yul Lee, Timothy J Schaewe, Marie Luby, George Chang, Ziad El-Zammar, Shaista Alam, Natl Insts of Neurological Disorders and Stroke, Natl Insts of Health, Bethesda, MD; Chelsea S Kidwell, Georgetown Univ, Washington, DC; Steven Warach, Natl Insts of Neurological Disorders and Stroke, Natl Insts of Health, Bethesda, MD; for the NIH Natural History of Stroke Investigators

**10:26 Regional Differences In CO2 Vasoreactivity After Stroke Using CASL MRI** 158  
Peng Zhao, David Alsop, Magdy Selim, Beth Israel Deaconess Medical Ctr, Harvard Medical Sch, Boston, MA; Amir Abduljalil, The Ohio State Univ, Columbus, OH; Peter Novak, Univ of Massachusetts, Boston, MA; Lewis Lipsitz, Kun Hu, Sarah LaRose, Vera Novak, Beth Israel Deaconess Medical Ctr, Harvard Medical Sch, Boston, MA

**10:38 Granulocyte-Macrophage Colony-Stimulating Factor Treatment after Common Carotid Artery Occlusion Enhances Leptomeningeal Collateral Growth and Reduces Infarct Size after Focal Cerebral Ischemia** 159  
Kenichi Todo, Kazuo Kitagawa, Tsutomu Sasaki, Emi Omura-Matsuoka, Yasukazu Terasaki, Naoki Oyama, Yoshiki Yagita, Masatsugu Hori, Osaka Univ, Osaka, Japan

**10:50 Interference with Peroxisome Proliferator-activated Receptor Gamma Signaling Causes Cerebral Vascular Hypertrophy and Remodeling** **160**

Gary L Baumbach, Carmen M Halabi, Andreas M Beyer, Curt D Sigmund, Frank M Faraci, Univ of Iowa, Iowa City, IA

**11:02 Genome Wide Association Study of Intracranial Aneurysms in the Finnish Population** **161**

Kaya Bilguvar, Yasar Bayri, Michael DiLuna, Fatih Bayrakli, Christopher E Mason, Mohamad Bydon, Yale Univ Sch of Med, New Haven, CT; Mika Niemela, Aki Laakso, Juha Hernesniemi, Helsinki Univ Sch of Med, Helsinki, Finland; Juha E Jaaskelainen, Univ of Kuopio, Kuopio, Finland; Aarno Palotie, Helsinki Univ Sch of Med, Helsinki, Finland; Jaakko Rinne, Univ of Kuopio, Kuopio, Finland; Matthew W State, Murat Gunel, Yale Univ Sch of Med, New Haven, CT

**11:14 Discussion**

**11:20 am – 11:30 am**  
**Short Break**

**11:30 am – 1:00 pm**  
**Session III: Plenary Session III**  
**Late-Breaking Science Oral Abstracts**  
**Hall B 2**

**Moderators: TBD**  
**TBD**

**11:30 Results of EPITHET: Effects of tPA beyond 3 hours on Infarct Growth, Reperfusion and Clinical Outcomes** **LB 1**

Stephen M Davis, Royal Melbourne Hosp, Melbourne, Australia; Geoffrey A Donnan, Natl Stroke Res Inst, Melbourne, Australia; Deidre A De Silva, Royal Melbourne Hosp, Melbourne, Australia; Kenneth S Butcher, Univ of Alberta, Alberta, AB, Canada; Mark Parsons, Christopher Levi, John Hunter Hosp, Newcastle, Australia; Alan Barber, Auckland Hosp, Auckland, New Zealand; Christopher Bladin, Box Hill Hosp, Melbourne, Australia; Graham Byrnes, Univ of Melbourne, Melbourne, Australia; Andre Peeters, Univ Hosp St Luc, Brussels, Belgium; Jonathan Chalk, Royal Brisbane Hosp, Brisbane, Australia; David Schultz, Flinders Medical Ctr, Adelaide, Australia; John Fink, Christchurch Hosp, Christchurch, New Zealand; Thomas Kimber, Royal Adelaide Hosp, Adelaide, Australia; for the Echoplanar Imaging Thrombolytic Evaluation Trial (EPITHET) Investigators

**11:40 Control of Hypertension and Hypotension Immediately Post-Stroke (CHHIPS) Pilot Trial** **LB 2**

John F Potter, Univ of East Anglia, Norwich, United Kingdom

**11:50 The Intensive Blood Pressure Reduction in Acute Cerebral Hemorrhage Trial (INTERACT): results of the vanguard phase** **LB 3**

Craig Anderson, The George Inst for Intl Health, University of Sydney, NSW, Australia; Yining Huang, Peking Univ First Hosp, Peking University, China; Jiguang Wang, Shanghai Inst of Hypertension, Rui Jin Hospital, China; Hisatomi Arima, Graduate Sch of Medical Sciences, Kyushu University, Fukuoka, Japan; Bruce Neal, The George Inst for Intl Health, University of Sydney, NSW, Australia; Bin Peng, Peking Union Medical Coll, Beijing, China; Emma Heeley, Christian Skulina, The George Inst for Intl Health, University of Sydney, NSW, Australia; Mark Parsons, John Hunter Hosp, University of Newcastle, NSW, Australia; Jong Sung Kim, Asan Medical Ctr, University of Ulsan, Seoul, Republic of Korea; Stephane Heritier, The George Inst for Intl Health, University of Sydney, NSW, Australia; Lewis Morgenstern, Univ of Michigan Medical Sch, Ann Arbor, MI; John Chalmers, The George Inst for Intl Health, University of Sydney, NSW,

Australia

**12:00 The Penumbra Stroke Trial: Safety and Effectiveness of a New Generation of Mechanical Devices for Clot Removal in Acute Ischemic Stroke** **LB 4**

C. McDougall, Barrow Neurological Inst, Phoenix, AZ; W. Clark, Oregon Health and Science Univ, Portland, OR; T. Mayer, Ludwig Maximilians Univ Munchen, Munich, Germany; A. Doerfler, Univsklinikum Erlangen, Erlangen, Germany; I. Grunwald, Univsklinikum des Saarlandes, Homburg, Germany; J. Berkefeld, Klinikum der Johann Wolfgang Goethe Univ Frankfurt, Frankfurt, Germany; D. Lopes, Rush Univ Medical Ctr, Chicago, IL; H. Shownkeen, Central Dupage Hosp, Winfield, IL; M. Madison, St. Joseph's Hosp, St. Paul, MN; R. Budzik, Riverside Methodist Hosp, Columbus, OH; D. Heck, Forsyth Radiological Associates, Winston-Salem, NC; D. Frei, Swedish Medical Ctr, Englewood, CO; O. Zaidat, Medical Coll of Wisconsin, Milwaukee, WI; V. Branca, Ospedale Maggiore Milano, Milan, Italy; N. Ahktar, Saint Luke's Hosp, Kansas City, MO; A. Rai, West Virginia Univ Hosp, Morgantown, WV; J. Chaloupka, Univ of Iowa Hosp, Iowa City, IA; F. Hellinger, Florida Hosp, Orlando, FL; P. Rasmussen, Cleveland Clinic, Cleveland, OH; S. Rudolph, Maimonides Medical Ctr, Brooklyn, NY; G. Spiegel, Hartford Hosp, Hartford, CT

**12:10 Donepezil in Subcortical Vascular Cognitive Impairment: a Randomised Double Blind Trial in CADASIL** **LB 5**

Martin Dichgans, Ludwig-Maximilians-Univ, Muenchen, Germany; Hugh S. Markus, St George's Univ of London, London, United Kingdom; Stephen Salloway, Brown Medical Sch, Providence, RI; Margaret Moline, Qin Wang, Eisai Medical Res, Ridgefield Park, NJ; Holly Posner, Pfizer, Inc., New York, NY; Hugues Chabriat, Dept Neurology, Hop Lariboisiere, APHP, INSERM U740, Paris, France

**12:20 Genome-wide SNP Linkage Screen for Intracranial Aneurysm Susceptibility Genes: Results from 333 Multiplex IA Families** **LB 6**

Tatiana Foroud, Daniel Koller, Dongbing Lai, Indiana Univ, Indianapolis, IN; Daniel Woo, Laura Sauerbeck, Univ of Cincinnati, Cincinnati, OH; Richard Hornung, Cincinnati Children's Hosp Medical Ctr, Cincinnati, OH; David Wiebers, Mayo Clinic, Rochester, MN; E. Sander Connolly, Columbia Univ, New York, NY; Craig Anderson, Univ of Sydney, Sydney, Australia; Guy Rouleau, Notre Dame Hosp, Montreal, QC, Canada; Ranjan Deka, Univ of Cincinnati, Cincinnati, OH; Irene Meissner, Mayo Clinic, Rochester, MN; Joan Bailey-Wilson, Natl Human Genome Res Inst, Baltimore, MD; John Huston, Robert Brown, Mayo Clinic, Rochester, MN; Joseph Broderick, Univ of Cincinnati, Cincinnati, OH; FIA Investigators

**12:30 Discussion**

**1:00 ADJOURN**