logistics

Gregory W Albers, MD (Stanford, CA, USA)
Andrei V Alexandrov, MD (Birmingham, AL, USA)
Anne W Alexandrov, PhD, RN (Birmingham, AL, USA)
Oh Young Bang, MD, PhD (Seoul, Korea)
Ivo R Buschmann, MD (Berlin, Germany)
Andrew M Demchuk, MD (Calgary, AB, Canada)
Colin P Derdeyn, MD (St. Louis, MO, USA)
James E Faber, PhD (Chapel Hill, NC, USA)
Ed Feldmann, MD (Boston, MA, USA)
Myron D Ginsberg, MD (Miami, FL, USA)
Nestor R Gonzalez, MD (Los Angeles, CA, USA)
Rishi Gupta, MD (Atlanta, GA, USA)
David S Liebeskind, MD (Los Angeles, CA, USA)
Liping Liu, MD (Beijing, China)

invited speakers

David J Mikulis, MD (Toronto, ON, Canada)
Raul G Nogueira, MD (Atlanta, GA, USA)
Mark W Parsons, MD (San Diego, CA, USA)
Rema Raman, PhD (San Diego, CA, USA)
Marc Ribó, MD, PhD (Barcelona, Spain)
Tatjana Rundek, MD, PhD (Miami, FL, USA)
Noriko Salamon, MD (Los Angeles, CA, USA)
Jeffrey L Saver, MD (Los Angeles, CA, USA)
Asfhaq Shuaib, MD (Edmonton, AB, Canada)
Cathy A Sila, MD (Cleveland, OH, USA)
Steven Warach, MD, PhD (Austin, TX, USA)
Max Wintermark, MD (Charlottesville, VA, USA)
KS Lawrence Wong, MD (Hong Kong, China)
Albert J Yoo, MD (Boston, MA, USA)

participants

The broad array of leading experts on collateral circulation from around the globe is expected to draw interest from various disciplines related to neurovascular disorders, including basic, translational and clinical neuroscientists. The planned discussions on clinical trials will undoubtedly attract various academicians, industry representatives and possibly NIH staff. Networking opportunities and the dinner seminar on mentoring the next generation will entice junior investigators. Robust attendance of up to 200 participants at various levels of expertise may result from the central location of the conference on the UCLA campus, allowing multidisciplinary exchange of information, debate and innovation with regard to future steps in development of collateral therapeutic strategies from research to clinical practice. Every effort will be made to encourage participation by postgraduate students, to have parity in numbers of women, minorities and persons with disabilities.

registration

A dedicated website contains all meeting details, including online registration links with options to note handicap access, child or family care needs, and reduced registration rates for junior investigators. All participants will be required to register for the meeting, with a registration fee of $50 and a reduced rate of $25 for students, fellows and residents.

facilities and housing

The symposium welcome reception and interactive dinner seminar will convene at the W Hotel, immediately adjoining the UCLA campus. Symposium lectures will be held at UCLA Covel Commons, providing 5,925 square feet of space in an ideal networking venue for breaks and lunch. These comprehensive meeting facilities include child and family care, with access for individuals with disabilities. Housing is available at a wide range of hotels with convenient location.

funding support has been requested from industry, academic & governmental sources

further information at www.collateralperfusion.org or davidliebeskind@yahoo.com

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Collaterals have recently become a mainstream focus of stroke research, yet a forum has never been established to dedicate attention to this top research priority. This conference forms a nidus for the mounting interest in collaterals and advances the field of stroke via collaterals. Measurable outcomes of conference goals will be assessed, evaluating the impact of this symposium on the mentorship of new investigators, translational stroke research and the NINDS Stroke Progress Review Group priority for studies on collateral perfusion. Concrete objectives are:

- to outline and publish a roadmap for next steps in translational research on collateral flow
- to define current status of collateral circulation in diagnosis, therapy and prognosis of stroke
- to address existing gaps and demands for mentoring the next generation of multidisciplinary researchers on collateral perfusion in the brain
- to outline and publish a roadmap for next steps in translational research on collateral flow

Collateral perfusion is critical in determining stroke risk, brain tissue fate of infarction or hemorrhage, stroke recovery and clinical outcome that impacts almost all acute and chronic ischemic disorders of the brain. Collateral circulation transcends the artificial distinction of acute stroke, recovery and prevention while serial imaging may depict this dynamic process over time. This conference is designed to allow cross-fertilization of new ideas, concepts, and methodologies to advance the field of stroke via collaterals. Measurable outcomes of conference goals will be assessed, evaluating the impact of this symposium on the mentorship of new investigators, translational stroke research and the NINDS Stroke Progress Review Group priority for studies on collateral perfusion. Concrete objectives are:

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Collateral circulation: from old to new

- Historical perspective on collaterals: angiographic patterns and venous correlates
- Of mice and men: translational research on collaterals
- Microvascular perfusion of collaterals: neuroprotection from bench to bedside
- Vascular homeostasis: atherosclerosis and arteriogenesis
- Cerebral arteriogenesis: collateral therapeutics from heart to brain
- Collateral advances in sync with cardiology

Collaterals into chronic phases

- Collaterals in asia: from acute stroke to intracranial atherosclerosis
- Collaterals in intracranial atherosclerosis
- Endovascular therapy for intracranial atherosclerosis based on collateral status
- Hemodynamic and vascular reactivity of collateral perfusion in moyamoya
- Bypass for hemodynamic stroke
- Enhancing collaterals via ischemic preconditioning and synangiosis

Imaging of collaterals

- Ultrasound of collateral flow from acute to chronic cerebrovascular disorders
- ASPECTS for multimodal CT/MRI as indirect marker of collateral perfusion
- CTA-SiF of collaterals for selection of acute endovascular therapies
- CT perfusion of collaterals in acute stroke
- MRI patterns of collaterals in acute stroke and clinical implications
- Serial imaging of collateral perfusion - acute on chronic

Collaterals in acute ischemic stroke

- Optimizing thrombolytic reperfusion with collaterals
- Time to angiographic reperfusion and the role of collaterals
- Reperfusion via collaterals in acute stroke
- External counterpulsation for collateral augmentation
- Head positioning and hemodynamic interventions as collateral therapeutics
- Stimulating collaterals?

Collateral therapeutics

- Malignant profiles of impaired collaterals: selection for collateral therapeutics?
- Collateral therapeutics: SENTIS and other stroke trials
- Noninvasive imaging metrics for collateral trials: lessons from SONIA
- Imaging biostatistics of collaterals in clinical trials
- Endpoints and outcome measures for trials of collateral therapeutics
- Advancing collateral research in collaborative stroke imaging networks

Concluding remarks & next steps