



CHILD NEUROLOGY SOCIETY



Neurobiology of Disease in Children

## 2010 Neurobiology of Disease in Children Symposium

CNS 39<sup>th</sup> Annual Meeting  
Providence, RI, October 13, 2010

### CEREBROVASCULAR DISEASE

*Supported by the National Institutes of Health (NIH grant 5R13NS040925-09), the Child Neurology Society, and the Children's Hemiplegia and Stroke Foundation*

7:30 AM – 7:40 AM

#### Opening Comments

Bernard L. Maria, M.D., M.B.A., Principal Investigator  
Medical College of Georgia, Augusta, Georgia  
Story Landis, Ph.D., Director of NINDS  
Bethesda, Maryland

7:40 AM – 10:15 AM

#### SESSION I: CLINICAL ISSUES

Co-Director and Moderator: Donna Ferriero, M.D.  
University of California San Francisco, San Francisco, California

7:40 AM – 8:10 AM

#### Insights from an Emerging Field

Co-Director Gabrielle deVeber, M.D.  
The Hospital for Sick Children, Toronto, Ontario

8:10 AM – 8:50 AM

#### Ischemic Stroke

8:10 AM – 8:30 AM

#### Perinatal Arterial Ischemic Stroke

Adam Kirton, M.D., MSc  
Alberta Children's Hospital, Calgary, Alberta

8:30 AM – 8:50 AM

**Childhood Arterial Ischemic Stroke**

Heather Fullerton MD

University of California San Francisco, San Francisco, California

8:50 AM – 9:30 AM

**Cerebral Sinovenous Thrombosis**

8:50 AM – 9:10 AM

**Perinatal Cerebral Sinovenous Thrombosis**

Linda DeVries, M.D.

Wilhelmina Children's Hospital, Utrecht, The Netherlands

9:10 AM – 9:30 AM

**Childhood Cerebral Sinovenous Thrombosis**

Fenella Kirkham, MBBS

The Hospital for Sick Children, Toronto, Ontario

9:30 AM – 9:50 AM

**Hemorrhagic Stroke**

Warren Lo, M.D.

Nationwide Children's Hospital, Columbus, Ohio

9:50 AM – 10:15 AM

**Question and Answer Session**

10:15 AM – 10:30 AM

**Coffee Break (out of room)**

10:30 AM – 12:15 PM

**SESSION II: PATHOGENESIS**

Co-Director and Moderator: Zinaida Vexler, Ph.D.,

University of California San Francisco, San Francisco, California

10:30 AM-10:50 AM

**What genes are implicated in the pathogenesis of stroke?**

Frank Sharp, M.D.

University of California-Davis, Irvine, California

10:50 AM – 11:10 AM

**Neurovascular Niche**

Eng Lo, M.D., Ph.D.

Harvard University, Boston, Massachusetts

11:10-11:30

**Inflammation and Stroke**

Zinaida Vexler, Ph.D.

University of California San Francisco, San Francisco, California

11:30-11:50

**Dynamic and structural formation of thrombus: the inciting event in ischemic stroke**

Ulrike Nowa-Gottl

University of Muenster, Muenster, Germany

11:50 AM – 12:10 PM

**Neuroimaging neural plasticity, recovery and regeneration**

Michael Rivkin, Harvard University, Boston Massachusetts

12:10 PM – 12:30 PM

**Question and Answer Session**

12:30 PM – 1:30 PM

**Lunch and Presentation by the Children’s Hemiplegia and Stroke Foundation**

1:30 PM – 2:30 PM

**SESSION III: CURRENT MANAGEMENT AND THERAPIES**

**Co-Director and Moderator: E. Steve Roach, M.D.,**

University of Ohio, Columbus, Ohio

1:30 PM – 1:50 PM

**American Heart Association Guidelines**

E. Steve Roach, M.D.,

University of Ohio, Columbus, Ohio

1:50 PM – 2:10 PM

**Enhancing Cellular Survival: Acute Neuroprotection**

Becky Ichord, M.D.,

Children’s Hospital of Philadelphia, Philadelphia, Pennsylvania

2:10 PM – 2:30 PM

**Constraint-Based Therapy and Rehabilitation**

Edward Taub PhD, University of Alabama at Birmingham

2:30 PM – 4:15 PM (in room coffee)

**SESSION IV: CONTROVERSIES AND UNANSWERED QUESTIONS**

Co-Director and Moderator: Gabrielle deVeber, M.D.  
The Hospital for Sick Children, Toronto, Ontario

2:30 PM – 2:50 PM

**How to treat newborn Cerebral Sinovenous Thrombosis?**

Mahendra Moharir, M.D.  
The Hospital for Sick Children, Toronto, Canada

2:50 PM – 3:10 PM

**Should a child with AIS be anticoagulated? If so, how?**

Heather Fullerton, M.D., MAS  
University of California San Francisco, San Francisco, California

3:10 PM – 3:30 PM

**Does hypothermia have a role in therapy?**

Donna Ferriero MD

3:30 PM – 4:00 PM

**EXECUTIVE SUMMARY OF THE DAY**

Steve Ashwal, M.D.  
Loma Linda University School of Medicine, Loma Linda, California

4:00 PM – 4:55 PM

**SESSION V: FUTURE DIRECTIONS PANEL DISCUSSION**

Moderator: Deborah Hirtz, M.D.  
NINDS Program Director

4:55 PM – 5:00 PM

**Closing Comments and Thanks**

Bernard L. Maria, M.D., MBA, Principal Investigator  
Charleston, South Carolina