

**Workshop on Vasculopathy in Sickle Cell Disease
August 27-28, 2008
Natcher Conference Center, Bethesda, MD**

Agenda

AUGUST 27, 2008

1:00 PM - 1:05 PM

Overview

Gregory J. Kato, MD

1:05 PM - 1:10 PM

Welcome

Henrietta D. Hyatt-Knorr, MA, Office of Rare Diseases

SESSION 1

DISRUPTED NITRIC OXIDE METABOLISM AND OXIDATIVE STRESS

Chair: Alan N. Schechter, MD

1:10 PM - 1:40 PM

Oxidation, hemostatic activation and adhesion

Robert P. Hebbel, MD

1:40 PM - 2:10 PM

Nitric oxide scavenging by cell-free plasma hemoglobin

Mark T. Gladwin, MD

2:10 PM - 2:40 PM

Catalytic nitric oxide scavenging by oxidases and oxygenases

Bruce Freeman, PhD

2:40 PM - 3:00 PM

BREAK

SESSION 2

VASCULAR DYSFUNCTION AND CELL ADHESION

Chairs: Robert P. Hebbel, MD and Marie J. Stuart, MD

3:00 PM - 3:30 PM

Nitric oxide resistance in the sickle cell mouse

Dhananjay K. Kaul, PhD

3:30 PM - 4:00 PM

Mediators of cell adhesion in sickle cell disease

Paul S. Frenette, MD

4:00 PM - 4:30 PM

Endothelial dysfunction in the sickle cell mouse

Cheryl A. Hillery, MD

4:30 PM - 5:00 PM

Glutathione dysregulation in sickle cell disease

Claudia R. Morris, MD

5:00 PM - 6:30 PM

Poster Session (Attended reception)

AUGUST 28, 2008

SESSION 3

HEMOSTATIC ACTIVATION AND GENOMICS OF VASCULOPATHY

Chairs: James G. Taylor, VI, MD and Mary E. Fabry, PhD

8:00 AM - 8:30 AM

Hemostatic activation in sickle cell disease

Kenneth I. Ataga, MD

OTHER VASCULOPATHIES

8:30 AM - 9:00 AM

Hemolytic rate and risk of stroke in children with sickle cell disease

Françoise Bernaudin, MD

9:00 AM - 9:30 AM

Low nitric oxide bioactivity and priapism

Hunter C. Champion, MD, PhD

GENOMICS OF VASCULAR COMPLICATIONS

9:30 AM - 10:00 AM

Genomic markers of sickle cell priapism and leg ulcers

Martin H. Steinberg, MD

10:00 AM - 10:30 AM

Genomic markers of sickle cell pulmonary hypertension

Marilyn J. Telen, MD

10:30 AM - 10:50 AM

BREAK

SESSION 4

TRANSLATIONAL THERAPEUTICS

Chairs: John Fitzgerald Tisdale, MD and Lewis L. Hsu, MD, PhD

10:50 AM - 11:20 AM

Vascular targets for small molecule therapeutics

Gregory J. Kato, MD

11:20 AM - 11:50 AM

Cellular approaches for gene therapy for sickle cell disease

Tim M. Townes, PhD

11:50 AM - 1:20 PM

Poster Session and lunch

SESSION 5

ATHEROSCLEROSIS: PARALLELS WITH SICKLE VASCULOPATHY?

Chairs: Gregory J. Kato, MD and Gregory M. Vercellotti, MD

1:20 PM - 1:50 PM

The role of hypertriglyceridemia in atherosclerosis

Anh Le, PhD

1:50 PM - 2:20 PM

Apolipoproteins in sickle cell vasculopathy

Kirkwood A. Pritchard, Jr., PhD

2:20 PM - 2:50 PM

Systolic hypertension in vasculopathy: Lessons from the Framingham heart study

Daniel Levy, MD

2:50 PM - 3:20 PM

NOS uncoupling

David A. Kass, MD

3:20 PM - 3:40 PM

Closing Remarks

3:40 PM - 4:00 PM

BREAK

4:00 PM - 6:00 PM

RFA WORKSHOP

Working Meeting on Funding Opportunities