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)
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