Physiological and Pathophysiologica
Consequences of Sickle Cell Disease
Washington, D.C. • November 6-8, 2017

Call for Abstracts

Register early by September 6, 2017 and be entered to WIN a Microsoft Surface Pro 4!

DEADLINES
Abstracts: June 30, 2017
Advance Registration: October 6, 2017
Housing: October 16, 2017

LOCATION & DATE
Washington, D.C. • November 6-8, 2017

the-aps.org/SickleCellinvitation
#SickleCell17
PURPOSE OF CONFERENCE
The purpose of the joint APS-EHRA Conference is to present the most up-to-date information on the physiology and pathophysiology of Sickle Cell Disease (SCD). The consequences of SCD affect the function of nearly every organ system. While we have known the genetic cause of the world’s most prevalent single gene mutation disease, understanding how to prevent and reverse the deadly consequences will require a greater understanding of the basic physiology that is impacted by sickling hemoglobin. Much of the work to be presented will focus on translational research and new potential therapies. In addition to invited lectures, the abstract-driven program will focus on trainees and early career investigators giving oral and poster presentations of their work.

DEADLINES
Abstracts: June 30, 2017
Advance Registration: October 6, 2017
Housing: October 16, 2017

LOCATION: Washington, D.C.
The Embassy Suites D.C. Convention Center Hotel is located in the heart of Washington, D.C. positioned conveniently within walking distance of the National Mall, museums, and area attractions. For an experience that will truly inspire curiosity and excite minds of all ages, visit one of D.C.’s 50 plus museums. Discover a variety of exhibitions, programs, and activities at the Smithsonian Museums or take a trip to the famous National Zoo. Learn about the history of democracy and the United States by booking a guided tour of the Capitol Building. These activities plus many shops and fine restaurants at the new CityCenterDC complex make the Washington, D.C. area the perfect mix of urban sophistication, fine cuisine, and history.

The Embassy Suites D.C. Convention Center Hotel is easily accessible from Ronald Reagan Washington National Airport being only a 15 minute cab ride away. Temperatures in the area usually range from the high 40’s to low 50’s. For more information on the Embassy Suites D.C. Convention Center Hotel, please visit http://bit.ly/EmbassyDC.

ORGANIZING COMMITTEE
Dexter L. Lee (Chair)
Howard University
Sergei Nekhai (Co-Chair)
Howard University
J. Douglas Engel
University of Michigan
Felicity N. Gavins
Louisiana State University
Kalpana Gupta
University of Minnesota
Karen Lang
University of Michigan
Harvey Luksenburg
NIH, NHLBI
Betty S. Pace
Augusta University
David M. Pollock
University of Alabama at Birmingham

For more information or to register, visit the-aps.org/SickleCellinvitation
CONFERENCE PROGRAM

Career Workshop  Career Development Workshop

Plenary Lecture  Speaker: Wayne A. I. Frederick

Symposia I  Neural Circuits and Neurovascular Physiology
  Chair: Thomas D. Coates
  • Targeting Pain at its Source in Sickle Cell Disease–Kalpna Gupta

Selected Abstract Oral Presentations

Symposia II  SCD Gene Therapy, Gene Editing, and Pharmacological Treatment
  Chair: David Williams
  • Gene Therapy for Hemoglobinopathies: The Challenge to Find a Cure–Giuliana Ferrari
  • TBD–Betty S. Pace

Selected Abstract Oral Presentations

Symposia III  Cell Therapy
  Chair: Betty S. Pace
  • Control of HbF Silencing: Implications for Genetic and Pharmacologic Induction of HbF for Therapy–Stuart Orkin
  • CRISPR/Cas9 Enhanced Sickle Gene Correction in Human and Mouse Hematopoietic Stem Cells–Tim Townes

Selected Abstract Oral Presentations

Symposia IV  Small Molecules to Treat SCD
  Chair: J. Douglas Engel
  • KEAP1-NRF2 Antioxidant Response System and Sickle Cell Anemia–Masayuki Yamamoto
  • Oral Tetrahydrodriudine and Decitabine for Non-Cytotoxic Epigenetic Modification of Sickle Cell Disease: A Randomized Phase 1/2 Study–Yogen Saanthurajah
  • RN-1, an LSD-1 Inhibitor, Induces Hb F in the Baboon (P. anubis) and Reduces Mitochondria-containing RBC in a SCD Mouse Model–Angela Rivers

For more information or to register, visit the-aps.org/SickleCellinvitation
Physiological and Pathophysiological Consequences of Sickle Cell Disease

Renal and Vascular Physiology
Chair: Jennifer Pollock

- Sickle Cell Disease: When Endothelin Becomes a Nephrotoxic and Proinflammatory Cytokine–Pierre-Louis Tharaux

Selected Abstract Oral Presentations

Lung Physiology and Pathophysiology
Chair: Steffen Meiler

- TBD–Solomon Ofori-Acquah

Selected Abstract Oral Presentations

Red Cell Physiology
Chair: Sergei Nekhai

- Developmental Regulation of Erythroid Self-renewal–James Palis
- Pathobiology of Sickle Red Cells: Implications for Pathophysiology of Sickle Cell Disease–Mohandas Narla

Selected Abstract Oral Presentations

Coagulation and Thrombosis
Chairs: Felicity N. Gavins and Rafal Pawlinski

- De-clotting Sickle Cell Disease–Rafal Pawlinski
- Promoting the Resolution of Inflammation in Sickle Cell Disease–Felicity N. Gavins

Selected Abstract Oral Presentations

For more information or to register, visit the-aps.org/SickleCellinvitation
ABSTRACTS
An exciting part of the conference is the presentation of scientific abstracts. There are two poster sessions during the conference that allow you to present your research along with your colleagues and peers. Deadline for abstract submission is June 30, 2017. The abstract online system is already accepting abstracts. Submit your abstract(s) in a few easy steps now! For more information, visit the-aps.org/SickleCellinvitation.

AWARDS
Calling all students and Postdoctoral Fellows. You may be eligible for travel award funding for this conference. There are two awards available, the APS Abstract Travel Award and the APS Minority Travel Fellowship Award. Don’t miss out on funding to attend this conference. Deadline for both awards is July 7, 2017. For more information, visit the-aps.org/SickleCellinvitation.

HOUSING
This conference is being held at the Embassy Suites D.C. Convention Center Hotel in Washington, D.C. The hotel is conveniently located near the U.S. Capitol with easy access to dining, shopping, entertainment, and activities. Single, double, triple, and quad occupancy rooms are available online. Deadline for housing is October 16, 2017. For more information, visit the-aps.org/SickleCellinvitation.

REGISTRATION
We can’t wait for you to attend this conference. Plan in advance and save on your registration fee. On-site registration is significantly higher than the advance registration fee so register early. Not an APS Member and want to save on the registration fee? No problem, join APS and become a member so you can also save on your registration fee! Enjoy your membership benefit of discounted registration when you join. For more information on membership, visit the-aps.org/apply. Deadline for registration is October 6, 2017. For more information, visit the-aps.org/SickleCellinvitation.