UAB Comprehensive Cardiovascular Center
6th Annual Symposium

Focus on Cardiovascular Electrophysiology

September 14 - 15, 2017

Grand Bohemian Hotel
Mountain Brook
2655 Lane Park Road
Birmingham, Alabama 35223

SPONSORED BY:
University of Alabama at Birmingham
Comprehensive Cardiovascular Center
Division of Cardiovascular Disease
Department of Medicine
and the UAB Division of Continuing Medical Education

Register online
uab.edu/medicine/cardiovascularcenter

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AGENDA – Thursday, September 14, 2017

7:00 - 8:15 am  Continental Breakfast
8:15 - 8:30 am  Welcome: Sumanth D. Prabhu, MD
8:30 - 2:30 pm  Session I: Causes and Modulators of Arrhythmia Risk
   Moderator: H. Thomas McElderry, MD
   8:30 - 8:35 am  Discussion
   8:35 - 9:00 am  Epidemiology/Risk Factors of Sudden Cardiac Death – Christine M. Albert, MD, MPH
   9:05 - 9:10 am  Discussion
   9:15 - 10:00 am  William W. Featheringill Keynote: Mechanisms of Fibrillation and Defibrillation – Raymond E. Ideker, MD, PhD
   10:05 - 10:25 am  BREAK
   10:25 - 10:30 am  Moderator Overview
   10:30 - 10:50 am  Clinical Management of Channelopathies – Lufang Zhou, PhD
   10:50 - 10:55 am  Discussion
   11:00 - 11:20 am  Beyond Pharmacologic Therapy for Stroke Prevention in Atrial Fibrillation: Management of the Left Atrial Appendage – Jianyi “Jay” Zhang, MD, PhD
   11:20 - 11:25 am  Discussion
   11:30 - 11:50 am  Risk Stratification and Treatment of Ventricular Arrhythmias in Hypertrophic Cardiomyopathy: Beyond the Guidelines – Vineet Kumar, MD
   11:50 - 11:55 am  Discussion
   10:00 - 10:05 am  Moderator Overview
   10:05 - 11:00 am  Clinical Management of Channelopathies – Harish Doppalapudi, MD
   10:50 - 10:55 am  Discussion
   11:00 - 11:20 am  Current Guidelines for ICD Implantation as Primary Prevention of Sudden Cardiac Death – Vance J. Plumb, MD
   11:20 - 11:25 am  Discussion
   11:30 - 11:50 am  Heart Rhythm: Dietary Impact – Steven G. Lloyd, MD, PhD
   11:50 - 11:55 am  Discussion
   11:50 - 11:55 am  Discussion

AGENDA – Friday, September 15, 2017

7:00 - 8:15 am  Continental Breakfast
8:30 - 10:05 am  Session III: Molecular Mechanisms
   Moderator: Sumanth Prabhu, MD
   8:30 - 8:35 am  Discussion
   8:35 - 9:00 am  Cardioprotective Actions of Relaxin—Guy Salama, PhD
   9:05 - 9:10 am  Discussion
   9:15 - 10:00 am  Keynote: Inherited Arrhythmia Syndromes: Recent Advances – Alfred L. George Jr., MD
   10:00 - 10:05 am  Discussion
   10:05 - 10:25 am  BREAK

10:25 - Noon  Session IV: Atrial Fibrillation and Conduction Problems
Basic Science Track: Intercellular Communication
   Moderator: Lufang Zhou, PhD
   10:25 - 10:30 am  Moderator Overview
   10:30 - 10:50 am  The Connexome as an Arrhythmogenic Substrate – Mario Delmar, MD, PhD
   10:50 - 10:55 am  Discussion
   11:00 - 11:20 am  JNK, a Critical Stress Response Kinase, Promotes Atrial Arrhythmias – Xun Ai, MD
   11:20 - 11:25 am  Discussion
   11:30 - 11:50 am  Pannexin Channels and Focal Arrhythmias – Sabine Huke, PhD
   11:50 - 11:55 am  Discussion

Clinical Track: Management of Atrial Arrhythmias
   Moderator: Vance Plumb, MD
   10:25 - 10:30 am  Moderator Overview
   10:30 - 10:50 am  Status of Ablation Therapy – H. Thomas McElderry, MD
   10:50 - 11:05 am  Discussion
   11:00 - 11:20 am  Beyond Pharmacologic Therapy for Stroke Prevention in Atrial Fibrillation: Management of the Left Atrial Appendage – William Maddox, MD
   11:20 - 11:25 am  Discussion
   11:30 - 11:50 am  New Anticoagulants and Reversal Agents – Nita A. Limdi, PharmD, PhD
   11:50 - 11:55 am  Discussion
   10:00 - 10:05 am  Moderator Overview
   10:05 - 11:00 am  Clinical Management of Channelopathies – Harish Doppalapudi, MD
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11:30 - 11:50 am  New Anticoagulants and Reversal Agents – Nita A. Limdi, PharmD, PhD
11:50 - 11:55 am  Discussion
Noon - 1:00 pm  Lunch

Basic/Clinical Science Track: Moderator: Sabine Huke, PhD
1:00 - 1:05 pm  Moderator Overview
1:05 - 1:25 pm  Circadian and Dynamic Influences on Ventricular Arrhythmias in Failing Heart – Steven M. Pogwizd, MD
1:25 - 1:30 pm  Discussion
1:35 - 1:55 pm  A Practical, Evidence-Based Approach to Management of Presistent AF – Frank Cuoco, MD, MBA
1:55 - 2:00 pm  Discussion
2:05 - 2:25 pm  Sympathetic Nervous System & Arrhythmias – Beth Habecker, PhD
2:25 - 2:30 pm  Discussion

Bioengineering Track: Moderator: Palaniappan Sethu, PhD
1:00 - 1:05 pm  Moderator Overview
1:05 - 1:25 pm  Electrophysiological Assessment of hiPSC-Derived Engineered Cardiac Tissue – Vladimir G. Fast, PhD
1:25 - 1:30 pm  Discussion
1:35 - 1:55 pm  Cardiac Regeneration and Electrophysiology – Nenad Bursac, PhD
1:55 - 2:00 pm  Discussion
2:05 - 2:25 pm  Optical Mapping of Arrhythmia Onset – Jack M. Rogers, PhD
2:25 - 2:30 pm  Discussion
2:30 - 2:50 pm  Break
2:50 - 4:05 pm  Session II: Current Treatments
Moderator: William Holman, MD
2:50 - 3:20 pm  2017 ACC/AHA Guidelines for Management of Patients with Ventricular Arrhythmias and Prevention of Sudden Cardiac Death – G. Neal Kay, MD
3:20 - 3:25 pm  Discussion
3:30 - 4:00 pm  Mechanisms of Atrial Fibrillation in Patients with Mitral Valve Disease – Ralph Damiano, MD
4:00 - 4:05 pm  Discussion
4:10 - 4:40 pm  Poster “Blitz”, Poster preview 1 slide/2 minutes
Moderator: Martin Young, DPhil
4:10 - 6:15 pm  Poster Session
4:00 - 8:00 pm  Networking Reception

11:50 - 12:00 pm  Keynote: Inherited Arrhythmia Syndromes: Recent Advances – Alfred L. George Jr., MD
12:00 - 1:00 pm  Lunch

1:05 - 2:00 pm  Featheringill Young Investigator Award Finalists Presentations
Moderator: John C. Chatham, DPhil
1:00 - 1:05 pm  Moderator Overview
1:05 - 2:00 pm  Featheringill Young Investigator Award Finalist Presentations
2:05 - 4:30 pm  Session V: Future Directions
Moderator: Louis Dell'Italia, MD
2:05 - 2:10 pm  Moderator Overview
2:10 - 2:40 pm  Making Cardiac Regeneration Happen: Roadblocks to Overcome – Jianyi “Jay” Zhang, MD, PhD
2:40 - 2:45 pm  Discussion
2:50 - 3:20 pm  New Device Strategies – H. Thomas McElderry, MD
3:20 - 3:25 pm  Discussion
3:30 - 4:00 pm  Gene Therapy to Treat Cardiac Arrhythmias – J. Kevin Donahue, MD
4:00 - 4:05 pm  Discussion
4:10 - 4:30 pm  Featheringill Young Investigator Awards/Poster Awards, Closing Remarks – Sumanth D. Prabhu, MD
FACULTY

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Jianyi “Jay” Zhang, MD, PhD
Professor of Bioengineering and Medicine
Chair, Department of Biomedical Engineering
T. Michael and Gillian Goodrich Endowed Chair of Engineering

CONFERENCE REGISTRATION

Preregistration online: $125 for attendees outside of UAB; no charge for trainees and UAB faculty and staff.

Onsite Registration: $175 for attendees outside of UAB (check only); no charge for trainees and UAB faculty and staff.

Online registration closes Friday, September 8th at 5 pm CST. Register online at:

uab.edu/medicine/cardiovascularcenter

HOTEL RESERVATION

Grand Bohemian Hotel Mountain Brook
2655 Lane Park Road
Birmingham, Alabama 35223

To reserve a room, call (205) 414-0505
or visit: marriott.com/hotels/travel/bhmag-grand-bohemian-hotel-mountain-brook-autograph-collection
ABSTRACT SUBMISSION

Deadline for Poster Presentation: August 31, 2017

Submit abstracts online and find additional guidelines for submission at uab.edu/medicine/cardiovascularcenter

Eligibility: Graduate students, post-doctoral fellows, clinical fellows, and residents

EDUCATIONAL OBJECTIVES

This meeting is designed to provide scientists and clinicians with the most current information concerning recent advances in clinical care and applied research in the field of cardiovascular electrophysiology.

After attending this symposium, participants should be able to:

1. Discuss new therapies and interventions to prevent or treat atrial and ventricular arrhythmias;
2. Highlight novel research about the underlying mechanisms of cardiac arrhythmias; and
3. Bring together basic scientists, physician-scientists, and clinicians to facilitate communication and collaboration in this field.

ACCREDITATION

The University of Alabama School of Medicine is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

The University of Alabama School of Medicine designates this educational activity for a maximum of 12.5 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

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