Seventh Annual
Cardiovascular Research Institute (CVRI) Symposium
Wednesday April 10, 2019

8:00 a  Breakfast and Registration  Rayzor Lounge
Poster preview session

8:45 a  Opening Remarks and Welcome  Cullen Auditorium
Adam Kuspa, PhD
Senior Vice President and Dean of Research
Interim Dean, Graduate School of Biomedical Sciences
Salih J. Wakil, PhD Endowed Chair in the Verna & Marrs McLean
Department of Biochemistry and Molecular Biology
Professor, Departments of Biochemistry and Molecular Biology,
Molecular and Human Genetics, and Pharmacology
Baylor College of Medicine

Lectures  Cullen Auditorium

Session Chair  William R. Lagor, PhD
Assistant Professor, Department of Molecular Physiology and Biophysics
Baylor College of Medicine

8:55 a  “Sex Differences in Stroke”  
Louise D. McCullough, MD, PhD
Roy M. and Phyllis Gough Huffington Distinguished Chair
Professor and Chair, Department of Neurology
McGovern Medical School at UTHealth

9:15 a  “Cardiogenic Shock: What Have We Learned So Far”  
Ziad A. Taimeh, MD
Assistant Professor, Department of Medicine-Cardiology
Baylor College of Medicine

9:30 a  “NLRP3 Inflammasome Mediates the Obesity-Induced Pathogenesis of
Atrial Fibrillation”  
Larry Scott, Jr., BS
Student, Department of Molecular Physiology and Biophysics
Baylor College of Medicine
*Top selected abstract

9:40 a  “Effects of Weightlessness on the Human Cardiovascular System”  
Peter Norsk, MD, dr. med
Professor, Department of Molecular Physiology and Biophysics,
Center for Space Medicine
Baylor College of Medicine

Rapid Fire Poster Session 1  Rayzor Lounge
(with refreshments)

10:05 a – 10:50 a  Session 1: Groups 1-6
Lectures

**Session Chair**
Xander Wehrens, MD, PhD
Director, Cardiovascular Research Institute
Juanita P. Quigley Endowed Chair in Cardiology
Professor, Departments of Molecular Physiology and Biophysics, Medicine, Pediatrics, and Center for Space Medicine
Baylor College of Medicine

**10:55 a**
"Alternative Splicing Regulatory Networks in Heart Postnatal Development and their Disruption in Myotonic Dystrophy"
Thomas A. Cooper, MD
Professor, Department of Pathology and Immunology
Baylor College of Medicine

**11:15 a**
"Genetic Abrogation of the Mitochondrial Permeability Transition Pore"
Jason Karch, PhD
Assistant Professor, Cardiovascular Research Institute, Department of Molecular Physiology and Biophysics
Baylor College of Medicine

**11:30 a**
Distinguished Keynote Lecture
"Polyploidy: Doubling Down on Cardiac Adaptation and Regulation"
Mark Sussman, PhD
Director, Integrated Regenerative Research Institute
Distinguished Professor of Biology
SDSU Heart Institute
San Diego State University

**12:30 p**
Rapid Fire Poster Session II
(Rayzor Lounge)
(Lunch served throughout)

**12:35 p – 12:55 p**
Session 2: Groups 1-5

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Lectures

**Session Chair**
Joshua Wythe, PhD
Assistant Professor, Department of Molecular Physiology and Biophysics
Baylor College of Medicine

**1:30 p**
"Determinants of Cardiovascular Disease Risk in Obese Youth With Non-Alcoholic Fatty Liver Disease (NAFLD)"
Ishita Jindal, MD
Clinical Postdoctoral Fellow, Department of Pediatrics
Baylor College of Medicine
*Top selected abstract

**1:40 p**
"The Intestinal Microbiome is Altered in Pediatric Heart Transplantation"
Joseph Spinner, MD
Clinical Postdoctoral Fellow, Department of Pediatrics-Cardiology
Baylor College of Medicine
Texas Children’s Hospital
1:55 p  “Induction of Cardiac Myocyte Replication”  
Robert J. Schwartz, PhD  
Hugh Roy and Lillian Cranz Cullen Distinguished University Professor,  
Department of Biology and Biochemistry  
University of Houston

2:15 p  “Aibp Instructs Hematopoietic Stem and Progenitor Cell Fate through Srebp2-Regulated Notch Signaling”  
Qilin Gu, PhD  
Postdoctoral Researcher, Department of Cardiovascular Sciences  
Houston Methodist Research Institute  
*Top selected abstract

2:25 p  Rapid Fire Poster Session 3 with Refreshments  
Rayzor Lounge

2:30 p – 3:15 p  Poster Session 3: Groups 1-4

**Lectures**  
*Cullen Auditorium*

**Session Chair**  
Na Li, PhD  
Assistant Professor, Department of Medicine-Cardiovascular Research  
Baylor College of Medicine

3:20 p  “Genetic Guided Genomics to Gain Insights into the Pathogenesis and Treatment of Cardiomyopathies”  
AJ Marian, MD  
Director, Center for Cardiovascular Genetics  
James T. Willerson, MD Distinguished Chair in Cardiovascular Research  
Professor of Molecular Medicine (Genetics) and Medicine (Cardiology)  
Institute of Molecular Medicine  
University of Texas Health Sciences Center  
Texas Heart Institute

3:35 p  “A Steroid Receptor Coactivator Stimulator (MCB-613) Promotes Cardiac Protection and Repair After Myocardial Infarction”  
Lisa K. Mullany, PhD  
Assistant Professor, Department of Molecular and Cellular biology  
Baylor College of Medicine  
*Top selected abstract

**Awards Ceremony and Distinguished Keynote Lecture**  
*Cullen Auditorium*

**Session Chair:**  
Biykem Bozkurt, MD, PhD  
Director, Winters Center for Heart Failure Research  
Mary and Gordon Cain Chair, and W.A. “Tex” and Deborah Moncrief Jr. Chair  
Medical Care Line Executive (Department of Medicine Chair)  
Michael E. DeBakey Veterans Affairs Medical Center  
Vice Chair, Department of Medicine

3:45 p  Awards Ceremony
Distinguished Keynote Lecture

“What About the Future? I'm Busy with Precision Medicine!”
Mariell Jessup, MD, FACC, FAHA, FESC
Chief Science and Medical Officer
American Heart Association

Reception with Poster Viewing
Rayzor Lounge

5:00 p
Spirits and hors d’oeuvres
Poster viewing and discussion/ networking