MONDAY, July 29

8:00 AM
Registration/Exhibits Open
*Grand Ballroom Foyer*

9:00-9:15 AM
Early Career Pre-Conference Session: Welcome Address
*Commonwealth Ballroom*
Nicole H. Purcell, La Jolla, California
Sean Wu Stanford, Stanford, California

9:15-10:15 AM
Early Career Pre-Conference Session 1
"Next Best Thing" in Cardiovascular Research
*Commonwealth Ballroom*

Moderators:
Mark Kohr, Baltimore, Maryland
Sadia Mohsin, Pennsylvania

Oral Abstract Presentation

10:15-11:15 AM
Early Career Pre-Conference Session 2
“Next Best Thing” in Cardiovascular Research
*Commonwealth Ballroom*

Moderators:
Shirin Doroudgar, Heidelberg, Germany
Ngonidzashe Madungwe, San Antonio, Texas

Oral Abstract Presentation

11:20-11:50 AM
Early Career Pre-Conference Session 3
Featured Presentation: A Career in Science and Lifelong Lessons
*Commonwealth Ballroom*
Evangelia Kranias, Cincinnati, Ohio

11:50 am
Break/Lunch on your own

12:30-12:55 PM
BCVS 2019 Scientific Sessions: Opening Welcome
12:55 PM
Break

1:00–2:35 PM
Grand Ballroom

Concurrent Session 1A
HFpEF: Unraveling the Gordian Knot

Moderators:
Timothy J. Kamp, Madison, Wisconsin
Sara Nunes Vasconcelos, Toronto, Ontario

1:00 PM  Understanding Alternative Metabolic Pathways in the Progression of Heart Failure
E. Douglas Lewandowski, Columbus, Ohio

1:20 PM  TBD
Gregory D. Lewis, Boston, Massachusetts

1:40 PM  TBD
Jennifer E. Ho, Boston, Massachusetts

2:00 PM  Adipose Tissue in HFpEF: Are Wires Crossed in Cardiac-adipose Tissue Cross-talk?
Flora Sam, Boston, Massachusetts

2:20 PM  Oral Abstract Presentation

1:00 - 2:35 PM
Concurrent Session 1B
Mechanisms of Mitochondrial Quality Control
Commonwealth Ballroom

Moderators:
Swati Day, Baltimore, Maryland
David Lefer, New Orleans, Louisiana

1:00 PM  Mitochondria in Cell Death and Cardioprotection
Elizabeth (Tish) Murphy, Bethesda, Maryland

1:20 PM  TBD
Rosario Rizzuto, Padova, Italy

1:40 PM  Lipids and Mitochondrial Quality Control
Rong Tian, Seattle, Washington
2:00 PM    TBD
            John Chatham, Birmingham, Alabama

2:20 PM    Oral Abstract Presentation

2:35 PM – 3:05 PM
Refreshment Break and Exhibits
Grand Ballroom Foyer

3:05 - 4:40 PM
Concurrent Session 2A
Early Triggers of Heart Failure
Grand Ballroom

Moderators:
Joseph Hill, Dallas, Texas
Sumitra Miriyala, Shreveport, Louisiana

3:05 PM    HDAC inhibition can Reverse Pressure Overload induced Cardiac structural and Functional Defects
            Steven Houser, Philadelphia, Pennsylvania

3:25 PM    Nox-mediated Tuning of Cardiac Stress Response
            Ajay Shah, London, United Kingdom

3:45 PM    A Live Tracking Mouse Model for Endogenous Cardiac Exosomes
            Jiang Chang, Houston, Texas

4:05 PM    Linking Metabolism to the Extracellular Matrix
            Steven P. Jones, Louisville, Kentucky

4:25 PM    Oral Abstract Presentation

3:05 - 4:40 PM
Concurrent Session 2B
Beyond Myocytes and Fibroblasts: Forgotten Cells of the Heart
Commonwealth Ballroom

Moderators:
Michelle Parvatiyar, Tallahassee, Florida
Xuejun Wang, Vermillion, South Dakota

3:05 PM    TBD
            Shingo Kajimura, San Francisco, California

3:25 PM    Implications of a New Amplifier Control Knob for mTORC1
            David A. Kass, Baltimore, Maryland

3:45 PM    TBD
            Xun Ai, Chicago, Illinois
4:05 PM Direct Reprogramming and Cardiovascular Research
Masaki Ieda, Tsukuba, Japan

4:25 PM Oral Abstract Presentation

4:40 -- 7:00 PM Poster Session 1 and Reception
Galleria Hall

TUESDAY, July 30

7:00 AM Registration
Grand Ballroom Foyer

7:00 AM Continental Breakfast and Exhibits
Grand Ballroom Foyer

7:00 AM Women in Science Breakfast
Ticket required to attend

8:00 – 9:15 AM Concurrent Session 3A
Heart Failure in a Dish: From iPSCs to Organoids
Grand Ballroom

Moderators:
Ke Cheng, Raleigh, North Carolina
Zhen Ma, Syracuse, New York

8:00 AM TBD
Michael E. Davis, Atlanta, Georgia

8:20 AM Making Human Cardiac Organoids for Drug Discovery
James E. Hudson, Brisbane, Australia

8:40 AM Engineering Cardiomyogenic Differentiation and Morphogenesis of Human Pluripotent Stem Cells
Todd McDevitt, San Francisco, California

9:00 AM Oral Abstract Presentation

8:00 – 9:15 AM Concurrent Session 3B
Emerging Discoveries in Myocardial Metabolism
Commonwealth Ballroom
8:00 AM  Deep Network Tracing for Understanding Cardiac Metabolism  
Bradford G. Hill, Louisville, Kentucky

8:20 AM  AMPK Regulation of Atrial Metabolism and Remodeling  
Lawrence H. Young, New Haven, Connecticut

8:40 AM  New Insights on Metabolic Control of Structural Remodeling in the Heart  
Heinrich Taegtmeyer, Houston, Texas

9:00 AM  Oral Abstract Presentation

9:15 AM – 9:45 AM  
Refreshment Break and Exhibits  
Grand Ballroom Foyer

9:45 – 11:00 AM  
Concurrent Session 4A  
The Future of Cardiac Fibrosis  
Grand Ballroom

Moderators:  
Jeffrey D. Molkentin, Cincinnati, Ohio  
Eric M. Small, Rochester, New York

9:45 AM  TBD  
Reza Ardehali, Los Angeles, California

10:05 AM  Fibroblast Roles in Cardiac Maintenance  
Michelle D. Tallquist, Honolulu, Hawaii

10:25 AM  TBD  
Navin K. Kapur, Hanover, Massachusetts

10:45 AM  Oral Abstract Presentation

9:45 – 11:00 AM  
Concurrent Session 4B  
Diabetes and Cardiomyopathies: Where are We Now and What is New?  
Commonwealth Ballroom

Moderators:  
Raj Kishore, Philadelphia, Pennsylvania  
Cinzia Perrino, Naples, Italy

9:45 AM  Obesity-related Immunosenescence and Cardiomyopathy  
Motoaki Sano, Tokyo, Japan
10:05 AM  O-GlcNAcylation of Histone deacetylase 4 Protects the Diabetic Heart from Failure  
Johannes Backs, Heidelberg, Germany

10:25 AM  TBD  
Fadi N. Salloum, Richmond, Virginia

10:45 AM  Oral Abstract Presentation

11:00 AM – 12:00 PM  
General Session 5  
Keynote Lecture  
Grand Ballroom

Moderators:  
Elizabeth M. McNally, Chicago, Illinois  
Jill Tardiff, Tucson, Arizona

11:00 am  From Myosin to Medicines: A Journey to Treat Hypertrophic Cardiomyopathy  
Christine Seidman, Boston, Massachusetts

12:00 PM – 1:30 PM  
Lunch on your own; Poster viewing; Exhibits  

OR

12:30 PM – 1:30 PM  
Early Career Session  
Oh All the Places You Can Go ... With a Degree

Moderators:  
Kathleen Broughton, San Diego, California  
Farid Moussavi-Harami, Seattle, Washington

Panelists:  
Shi Yin Foo, Cambridge, Massachusetts  
Jane Freedman, Worcester, Massachusetts  
Megan Mayerle, Stanford, California  
Timothy O’Connell, Minneapolis, Minnesota

1:30 – 2:45 PM  
Concurrent Session 6A  
Cardio Oncology: Protecting the Heart from Cancer Treatment  
Grand Ballroom

Moderators:  
Sergio Lavendero, Santiago, Chile  
Loren E. Wold, Columbus, Ohio
1:30 PM  Immune-Checkpoint Inhibitor Myocarditis: From Bench to Bedside  
Javid Moslehi, Nashville, Tennessee

1:50 PM  CYP1 Enzymes in Anthracycline Cardiotoxicity  
Aarti Asnani, Boston, Massachusetts

2:10 PM  Using Genomic Biomarkers to Predict Doxorubicin-Induced Cardiotoxicity  
Paul Burridge, Chicago, Illinois

2:30 PM  Oral Abstract Presentation

1:30 – 2:45 PM  
Concurrent Session 6B  
Cardiac Myofilaments: Mechanics and Regulations in Heart Failure  
Commonwealth Ballroom

Moderators:  
Brandon Biesiadecki, Columbus, Ohio  
Ann Margaret Murphy, Baltimore, Maryland

1:30 PM  TBD  
Samantha Harris, Tucson, Arizona

1:50 PM  Cardiac Myofilament Function: from Health to Heart Disease  
Kerry McDonald, Columbia, Missouri

2:10 PM  Cardiac Myofilament Glycation in Diabetes  
Jonathan A. Kirk, Maywood, Illinois

2:30 PM  Oral Abstract Presentation

2:45 AM – 3:15 PM  
Refreshment Break and Exhibits  
Grand Ballroom Foyer

3:15 – 4:30 PM  
Concurrent Session 7A  
Pathways and Mechanisms of Apoptosis  
Grand Ballroom

Moderators:  
Junichi Sadoshima, Newark, New Jersey  
Mark Ziolo, Columbus, Ohio

3:15 PM  Lysosomal Regulation of Survival Signaling  
Abhinav Diwan, St Louis, Missouri

3:35 PM  Ferroptosis, Iron-dependent Non-apoptotic Cell Death, in Ischemic Heart Disease  
Takashi Matsui, Honolulu, Hawaii
3:55 PM  TBD

4:15 PM  Oral Abstract Presentation

3:15 – 4:30 PM  
**Concurrent Session 7B**  
**Workshop 1: De-mystifying the NIH**  
*Commonwealth Ballroom*

**Moderators:**  
Joan Heller Brown, San Diego, California  
Douglas G. Tilley, Philadelphia, Pennsylvania

**Panelists:**  
Abdelouahab Aitouche, Bethesda, Maryland  
Margaret Chandler, Bethesda, Maryland  
Kimm J. Hamann, Bethesda, Maryland  
Renee Wong, Bethesda, Maryland

4:30-7:00 PM  
**Poster Session 2 and Reception**  
*Commonwealth Ballroom*

7:00 PM  
**Early Career Investigator Social Event**  
*Pavilion*

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**WEDNESDAY, July 31**

7:00 AM  Registration  
*Grand Ballroom Foyer*

7:00 AM  Continental Breakfast and Exhibits  
*Grand Ballroom Foyer*

8:00 – 9:15 AM  
**Concurrent Session 8A**  
**Cardiac Arrhythmias: From Basic Mechanisms to Precision Medicine**  
*Grand Ballroom*

**Moderators:**  
Francesca Stillitano, New York, New York  
TBD

8:00 AM  **Physiological Genomics Approach to LQTS Modifier Discovery**  
Isabelle Deschenes, Cleveland, Ohio

8:20 AM  **CurePLaN Consortium: When and How to Treat Our Patients**
8:40 AM  TBD
Samuel C. Dudley, Jr., Minneapolis, Minnesota

9:00 AM  Oral Abstract Presentation

8:00 – 9:15 AM
Concurrent Session 8B
Cardiac Inflammasome in Heart Failure
Commonwealth Ballroom

Moderators:
Shyam Bansal, Columbus, Ohio
Sophie Van Linthout, Berlin, Germany

8:00 AM  Regulatory T-cell Dysfunction in Heart Failure
Sumanth D. Prabhu, Birmingham, Alabama

8:20 AM  TBD
Brendan M. Everett, Boston, Massachusetts

8:40 AM  Clonal Hematopoiesis, the Inflammasome and Heart Failure
Kenneth Walsh, Charlottesville, Virginia

9:00 AM  Oral Abstract Presentation

9:15 AM – 9:45 AM
Refreshment Break and Exhibits
Grand Ballroom Foyer

9:45 AM – 11:00 AM
Concurrent Session 9A
Rare Cardiac Genetic Disorders – New Mechanistic Insights
Grand Ballroom

Moderators:
Bjorn C. Knollmann, Nashville, Tennessee
Aikaterini Kontrogianni-Konstantopoulos, Baltimore, Maryland

9:45 AM  Osteopontin Promotes Left Ventricular Diastolic Dysfunction through a Mitochondrial Pathway: From Patients to a New Preclinical Model and back to Patients
Lina Shehadeh, Miami, Florida

10:05 AM  J Wave Syndromes as a Cause of SCD
Charlie Antzelevitch, Wynnewood, Pennsylvania

10:25 AM  Shortened Telomeres: A Hallmark of Heritable Dilated Cardiomyopathies
Helen M. Blau, Stanford, California
10:45 AM  Oral Abstract Presentation

9:45 AM – 11:00 AM
Concurrent Session 9B
Workshop 2 – Fostering Mutually Beneficial Collaborations Between Clinicians and Basic Scientists
Commonwealth Ballroom

Moderators:
Jennifer Strande, Milwaukee, Wisconsin
TBD

Panelists:
Kenneth Campbell, Lexington, Kentucky
Jane E. Freedman, Worcester, Massachusetts
Thomas Hund, Columbus, Ohio
Jonathan Seideman, Boston, Massachusetts
Lisa D. Wilsbacher, Chicago, Illinois

11:00 – 11:45 am
General Session 10
Outstanding Early Career Investigator Award Competition
Grand Ballroom
TBD
TBD
TBD

11:45 AM – 1:30 PM
Lunch on Your Own, Poster Viewing, Exhibits

OR

12:00 – 1:30 PM
Lunch and Learn: It Takes Two to Tango: What I Wish My Mentor/Mentee Told Me

Moderators:
Federica Accomero, Columbus, Ohio
Michael A. Burke, Atlanta, Georgia

Panelists:
Pilar Alcaide, Boston, Massachusetts
Kendryn K. Baskin, Columbus, Ohio
Peter Mohler, Columbus, Ohio
Jay Ngwenyama, Boston, Massachusetts
Pearl Quijada, Rochester, New York
Eric M. Small, Rochester, New York

1:30 – 2:45 PM
Concurrent Session 11A
New Frontiers in the Regulation of Cardiac Gene Expression
Grand Ballroom
Moderators:
Lisandra E. de Castro Brás, Greenville, North Carolina
Ganesh V. Halade, Birmingham, Alabama

1:30 PM   Epitranscriptome and Exosomes in Remodeling and Repair of the Heart
          Susmita Sahoo, New York, New York

1:50 PM   TBD
          Michael Tranter, Cincinnati, Ohio

2:10 PM   TBD

2:30 PM   Oral Abstract Presentation

1:30 – 2:45 PM
Concurrent Session 11B
Molecular and Cellular Aspects of Heart Failure
Commonwealth Ballroom

Moderators:
Lee M.D. Delbridge, Melbourne, Australia
Jack Rubinstein, Cincinnati, Ohio

1:30 PM   Coordinated Regulation of Inflammatory Response and Lipid Metabolism in
          Macrophage
          Yumiko Oishi, Tokyo Japan

1:50 PM   Modulating Autophagy in Myocardial Ischemia/Reperfusion Injury and
          Protection
          Huang-tian Yang, Shanghai, China

2:10 PM   The Curious Case of DDR2 in the Heart: Saving a Cell and Killing an Organ
          Shivakumar Kailsam, Trivandrum, India

2:30 PM   Oral Abstract Presentation

2:45 AM – 3:15 PM
Refreshment Break and Exhibits
Grand Ballroom Foyer

3:15 – 4:30 PM
Concurrent Session 12A
Workshop 3 – Advances in Cardiovascular Research – New Techniques
Grand Ballroom

Moderators:
Zhiqiang Lin, Utica, New York
Katherine Yutzey, Cincinnati, Ohio
Panelists:
Carl Wei-Chan Tong, College Station, Texas
Richard Gilbert, Providence, Rhode Island
Thomas Irving, Chicago, Illinois
Peipei Ping, Angeles, California
Megan Puckelwartz, Chicago, Illinois

3:15 – 4:30 PM
Concurrent Session 12B
Cellular Cross-talk in Heart Failure
Commonwealth Ballroom

Moderators:
Rongxue (Rosie) Wu, Chicago, Illinois
Benjamin Prosser, Philadelphia, Pennsylvania

3:15 PM TBD
Kristin I. Stanford, Columbus, Ohio

3:35 PM Novel Regulation of Adiposity by the Heart
Walter J. Koch, Philadelphia, Pennsylvania

3:55 PM Mechanisms of RhoA Regulation in Cardiomyopathy and Fibrosis
Maria I. Kontaridis, Boston, Massachusetts

4:15 PM Oral Abstract Presentation

4:30 -- 7:00 PM
Poster Session 3 and Reception
Commonwealth Ballroom

7:00 PM
BCVS Council Dinner
Grand Ballroom

THURSDAY, August 1

7:00 AM Registration

7:00 AM Continental Breakfast

8:00 – 9:15 AM
General Session 13A
Aging and Cardiovascular Risk
Grand Ballroom

Moderators:
Federica del Monte, Charleston, South Carolina
Rajasekaran Namakkal-Soorappan, Birmingham, Alabama

8:00 AM  Caveolin as a Therapeutic Target for the Aged Heart  
Hemal Patel, San Diego, California

8:20 AM  Cardiac Aging and Cellular Senescence  
Genevieve Derumeaux, Créteil, France

8:40 AM  The TGF-beta Signaling Cascade in Aging-associated Post-infarction Heart Failure  
Nikolaos Frangogiannis, Bronx, New York

9:00 AM  Oral Abstract Presentation

8:00 – 9:15 AM  
General Session 13B  
Novel Therapeutic Targets in Heart Failure  
*Commonwealth Ballroom*

*Moderators:*  
Bradley McConnell, Houston, Texas  
Danuta Szczesna-Cordary, Miami, Florida

8:00 AM  TBD  
David Thomas, Minneapolis, Minnesota

8:20 AM  TBD  
Jennifer Van Eyk, Los Angeles, California

8:40 AM  Signalosomes - Nodal Regulators and Therapeutic Targets For Heart Failure  
Michael S. Kapiloff, Stanford, California

9:00 AM  Oral Abstract Presentation

9:15 AM – 9:45 AM  
Refreshment Break  
*Grand Ballroom Foyer*

9:45 – 11:00 AM  
General Session 14A  
Machine Learning, Big Data and AI in Heart Disease  
*Grand Ballroom*

*Moderators:*  
Coralie Poizat, Utica, New York  
TBD

9:45 AM  Precision Screening for Familial Hypercholesterolemia Using a Machine Learning Model Applied to National and Local Healthcare Encounter Datasets  
Kelly Myers, Pasadena, California
10:05 AM  TBD

10:25 AM  Machine learning, rooted in fundamental hypothesis-driven science and Bayesian inference, for enhanced personalized prediction of cardiovascular death
Deeptankar DeMazumder, Baltimore, Maryland

10:30 AM  Oral Abstract Presentation

9:45 – 11:00 AM
General Session 14B
Development of Therapeutics for Heart Failure
Commonwealth Ballroom

Moderators:
Gayathri Swaminath, Merck, South San Francisco, California
Gordon (Teg) Pipes, Pennington, New Jersey

9:45 AM  TBD
Robert McDowell, South San Francisco, California

10:05 AM  APJ Signaling in Heart Failure
Brandon Ason, South San Francisco, California

10:25 AM  Non-invasive Imaging for Heart Failure Therapeutics Development
Richard George, Gaithersburg, Maryland

10:45 AM  Oral Abstract Presentation

11:00 AM  Conference Adjourns