8th Cardiovascular Annual Developmental Spring Biology Symposium Center
April 21-23, 2010

“Cardiovascular Development Differentiation and Disease”

CDBC/Cobre Lecture by Brian Black, PhD
(University of California, San Francisco)

Location:
Doubletree Guest Suites Charleston Historic District, 181 Church Street
“Cardiovascular Development, Differentiation, and Disease”

**Wednesday April 21**

12:00 - 02:00  **REGISTRATION**
12:00 - 02:00  **SPEAKER’S LUNCH**

**Session 1: Chairs - Cheryl Maslen, Chip Norris**

02:00 - 02:30  **GENERAL INTRODUCTION:** Andy Wessels & Roger Markwald
02:30 - 03:00  Dan Simionescu  
Clemson University  
“Personalized Regenerative Medicine: Scaffolds and Stem Cells  
for Patient-tailored Heart Valve Tissue”
03:00 - 03:30  Arash Kheradvar  
University of South Carolina  
“Progress on Modeling Tetralogy of Fallot during Development”
03:30 - 04:00  Chris Drake  
Medical University of South Carolina  
“Bone Marrow Origin of Adult Valve Interstitial Cells in Normal  
(Non-Irradiated) Mice”
04:00 - 04:30  Rick Visconti  
Medical University of South Carolina  
“Contribution of Bone Marrow-Derived Cells to Post-Infarction  
Heart Valve Remodeling”
04:30 - 05:30  **BREAK**

**Session 2: Chairs - Maurice van den Hoff, Bill Pu**

05:30 - 06:30  **CDBC Lecture:** Brian Black  
University of California, San Francisco  
“Transcriptional Control of Cardiovascular Development”
06:30 - 10:00  **CDBC RECEPTION**

**Thursday April 22**

**Session 3: Chairs - Brian Black, Youngsook Lee**

09:00 - 09:30  Andy Wessels  
Medical University of South Carolina  
“Cell Lineage Analysis and the Development of the Atrioventricular  
Junction”
09:30 - 10:00  Bill Pu  
Harvard Medical School  
“Regulation of Cardiac Gene Expression by a Self-Reinforcing  
Transcriptional Network”
10:00 - 10:30  **BREAK**

**Session 4: Chairs - Tom Borg, Bobby Thompson**

10:30 - 11:00  David Bader  
Vanderbilt University  
“Serosal Mesothelium in Development and Repair”
11:00 - 11:30  Takashi Mikawa  
University of California, San Francisco  
“Cardiac Conduction System Development”
11:30 - 12:00  Brett Harris  
Medical University of South Carolina  
“New Insights into AV Nodal Morphogenesis”
12:00 - 01:30  **LUNCH**
Thursday April 22 (continued)

Session 5: Chairs - Scott Argraves, Bryan Toole
01:30 - 02:00 David Wieczorek University of Cincinnati
"The Role of Tropomyosin in the Heart"
02:00 - 02:30 Christi Kern Medical University of South Carolina
"ADAMTS Cleavage of Versican is Critical for Cardiac Valve Morphogenesis"
02:30 - 03:00 Chip Norris Medical University of South Carolina
"Developmental Basis of Myxomatous Mitral Valve Disease"
03:00 - 03:30 BREAK

Session 6: Chairs - Michael Kern, Chip Norris
03:30 - 04:00 Cheryl Maslen Oregon Health & Science University
"The Role of CRELD1 in Cardiovascular Development and Congenital Heart Defects"
04:00 - 04:30 Bin Zhou Albert Einstein College of Medicine
"Endocardial Cell Signaling in Heart Development and Disease"
04:30 - 05:00 Yukiko Sugi Medical University of South Carolina
"The Role of BMP in Differentiation and Lineage Restriction of Endocardial Cushion Cells"
07:00 - 10:00 CDBC Speakers Dinner

Friday April 23

Session 7: Chairs - Takashi Mikawa, Rob Gourdie
09:00 - 09:30 Heather Anderson Winthrop University
"Role of FOXO Transcription Factors in Heart Development"
09:30 - 10:00 Bobby Thompson Medical University of South Carolina
"Key Transitions in Cardiac Development"
10:00 - 10:30 BREAK

Session 8: Chairs - Christi Kern, Steve Kubalak
10:30 - 11:00 Scott Argraves Medical University of South Carolina
"Fibulin-1, a New Regulator of Ventricular Trabeculation and Compaction"
11:00 - 11:30 Youngsook Lee University of Wisconsin
"Epigenetic Regulation by Jumonji/Jarid2 in Normal Cardiac Chamber Development"
11:30 - 12:00 Kyu-Ho Lee Medical University of South Carolina
"Nkx2.5 in the Second Heart Field Regulatory Network"
12:00 - 12:30 CLOSING REMARKS: Andy Wessels & Roger Markwald
12:30 ADJOURN
The Cardiovascular Developmental Biology Center (CDBC), in combination with the Center for Biomedical Research Excellence (COBRE) for Cardiovascular Developmental Biology, is pleased to announce that the 2010 CDBC/COBRE lecture will be presented by Dr. Brian L. Black. Dr. Black is Professor in the Department of Biochemistry and Biophysics and Associate Director of the Cardiovascular Research Institute at the University of California, San Francisco. He received his B.S. in Biology from Furman University (Greenville, SC) and his Ph.D. in Microbiology and Immunology from Wake Forest University Medical School (Winston-Salem, NC). In 1993, he joined the laboratory of Dr. Eric Olson at the University of Dallas where he studied the role of MEF2 factors in skeletal muscle transcription. After a very successful and productive postdoctoral training, Dr. Black was recruited in 1998 by the University of California, San Francisco where he continued to study transcriptional regulation, shifting his focus slightly toward the role of various transcriptional pathways in cardiovascular development. Over the years, his lab has published a series of seminal papers on organ development that have significantly furthered our understanding of the pathways that are involved in the molecular regulation of the developing heart and other embryonic structures. Dr. Black's other affiliations at UCSF include the Developmental Biology Program (Executive Committee), the Graduate Program in Biomedical Sciences (Executive Committee), the Graduate Program in Biological Sciences, the Stem Cell Biology Program, the Molecular Medicine Program, the Program in Craniofacial and Mesenchymal Biology, and the Diabetes Research Center. Dr. Black serves on several national study sections (AHA/NIH) and was, together with his colleague, Dr. Bruneau, the principal organizer of the 2009 Weinstein Cardiovascular Developmental Symposium in San Francisco.