



WEINSTEIN OBOSTON¹15

JOHN B. HYNES VETERANS MEMORIAL
CONVENTION CENTER

April 30 - May 2, 2015

**'Bos Children's
Hospital** | **Heart
Center**

Until every child is well"

DETAILED CONFERENCE SCHEDULE

AND LIST OF POSTERS

THURSDAY 4/30/2015

13:15 13:30 Welcome and opening remarks,
Ballroom A

13:30 15:00 **Platform session I, Ballroom A
Cardiogenesis, cardiac lineages,
and early heart development**
Moderators: Geoff Burns and
Brian Black

1-01. **Lionel Christiaen:**
New York University
Regulation of cardiopharyngeal
fates specification in a simple
chordate

1-02. **Ian Scott:** The Hospital for
Sick Children
Aplnr and its ligand Elabela have
opposite effects on Nodal signaling
during cardiac development

1-03. **Daniela Panakova:**
Max Delbrück Center
PCP-driven Cardiac Remodeling
Couples Changes in Actomyosin
Tension with Myocyte Differentiation

1-04. **Tao P Zhong:**
Fudan University
Regulation of Vertebrate Ciliogenesis
and Heart Development

1-05. **Yuika Morita:** IMCB, the
University of Tokyo
Cardiac cell induction and
regeneration by Sall+;Mespl-
derived cells

15:00 15:20 Break

15:20 16:50 **Platform session II, Ballroom A
Second heart field, outflow tract,
and vascular development**
Moderators: Caroline Burns and
Robert Kelly

2-01. **Zaffran Stephane:** INSERM
Expression of HOXB1 in second
heart field progenitor cells is essential
for normal heart development

2-02. **Ariel Rydeen:** Cincinnati
Children's Hospital
Cyp26 enzymes are required for
second heart field addition and
ventricular maintenance

2-03. **Megan Rowton:**

University of Chicago
Hedgehog signaling modulates
cardiac progenitor differentiation
status

2-04. **Kelly Smith:**

University of Queensland
Transmembrane protein 2 (tmem2)
is required during cardiovascular
development to modulate the ECM

2-05. **Sean Li:**

Boston Children's Hospital
Identification of intrapericardial
arterial trunk smooth muscle
progenitors

16:50 17:15 Break

17:15 18:15 **Keynote Lecture 1 Mark Krasnow,
Stanford and HHMI, Ballroom A**
Dissecting lung and vascular
development at single cell resolution

18:15 22:00 Light reception & Poster Session A,
Ballroom B
Poster presenters at posters
from 18:30-20:00

**2015 WEINSTEIN
CARDIOVASCULAR
DEVELOPMENT
CONFERENCE**

FRIDAY 5/1/2015

7:00	9:00	Breakfast & Posters, Ballroom B	12:45	14:15	Breakout sessions 1:
9:00	10:30	Platform session 11f, Ballroom A Myocardial development and cardiomyopathies Moderators: Frank Naya and Ibrahim Domian	14:15	14:30	1. Career development 1, Ballroom A Moderator: Maria Kontaridis
		3-01. Silvia Martin Puig: CNIC HIF1 and cardiovascular development: how metabolic regulation influences ventricular chamber formation	14:30	16:00	2. Technology Fair, Room 302 Organizer: William Pu
		3-02. Ibrahim Domian: MGH Atypical Protein Kinase C Dependent Polarized Cell Division Directs Myocardial Trabeculation			Break
		3-03. Mingfu Wu: Albany Medical College Lineage tracing reveals that oriented division underlies trabecular morphogenesis and differentiation			Platform session V, Ballroom A Epicardium, coronary vessels, conduction system, and arrhythmias Moderators: William Pu and Bin Zhou
		3-04. Ethan David Cohen: University of Rochester SMD Daaml and Daam2 are redundantly required for myocardial maturation			5-01. Ching-Ling (Ellen) Lien: Children's Hospital Los Angeles Cxd12 Chemokine guided angiogenesis directs coronary vasculature formation in zebrafish
		3-05. Zhanpeng Huang: Boston Children's Hospital CIP/MLIP senses pathophysiological stresses to regulate cardiac homeostasis			5-02. Bin Zhou: Albert Einstein College of Medicine Notch signaling controls coronary angiogenesis by endocardial progenitors
10:30	11:00	Break			5-03. Jinhu Wang: Duke University Epicardial regeneration is directed by the cardiac outflow tract and Hh signaling
11:00	12:30	Platform session IV, Ballroom A Trends in cardiovascular development Moderators: Joe Yost and Weinian Shou	16:00	16:30	5-04. Wenduo Ye: Tulane University Shox2 and Nkx2-5 antagonistically determine pacemaking cell fate in the pulmonary vein myocardium
		7-06. Ayhan Atmanli: Massachusetts General Hospital Multiplex Analysis of Gene Expression in Individual Living Cells	16:30	18:00	5-05. Ozanna Burnicka-Turek: University of Chicago, Departments of Pediatrics T-box Rheostat Patterns Cardiac Conduction System Functional Domains
		1-06. Laurie Boyer: Massachusetts Institute of Technology Transcriptional Control of Cardiac Cell Fate			Break
		3-06. Dan DeLaughter: Harvard Medical School Single Cell Transcriptional Atlas of Cardiac Development			Platform session VI, Ballroom A Endocardium and cardiac valves Moderators: Maria Kontaridis and Joy Lincoln
		9-06. Xiaoqin Liu: University of Pittsburgh School of Medicine Etiology of hypoplastic left heart syndrome: insights from analysis of mutant mouse models			6-01. Diego Franco: University of Jaen miR-23b and miR-199a impairs EMT during atrioventricular endocardial cushion formation
		8-06. Pingzhu Zhou: Boston Children's Hospital Identifying cell type specific enhancers using Cre-activated, lineage-restricted p300 ChIP-seq			6-02. Katelynn Toomer: MUSC Cilia and their function in Valve Development and Mitral Valve Prolapse
12:30	12:45	Break			6-03. Fernanda Bosada: University of Oregon Wnt signaling has distinct and dynamic roles in semilunar and atrioventricular canal <i>valve</i> development
			18:00	22:00	6-04. Eva Lana-Elola: National Institute for Medical Research New Dawn syndrome mice show AVSD with intact vestibular spine and reveal heart defects map to two loci
					6-05. Lindsey J. Miller: The Ohio State University Exploring endothelial cell dynamics in aging heart valves
					Light reception & Poster Session B, Ballroom B Poster presenters at posters from 18:15-19:45

SATURDAY 5/2/2015

7:00	8:30	Breakfast and posters, Ballroom B			
8:30	9:00	Business meeting, Ballroom A			
9:00	10:30	Platform session VII, Ballroom A Cardiac stem cells, growth, and regeneration	12:30	12:45	Break
		Moderators: Sean Wu and Ken Pass	12:45	14:15	Breakout sessions II:
		7-01. Hua Shen: University of Southern California Embryonic heart proliferation and neonatal heart regeneration controlled by IGF2			1. Career development I, Ballroom A Moderator: Maria Kontaridis
		7-02. Vahid Serpooshan: Stanford University Nkx2.5+ Cardiomyoblast Contribution to Postnatal Cardiogenesis	14:15	14:30	2 Trends and controversies in cardiovascular development, Room 304 Moderator: Da-Zhi Wang
		7-03. Zhiqiang Lin: Boston Children's Hospital Acetylation of VGLL4 regulates postnatal cardiac growth	14:30	16:00	Platform session IX: Ballroom A Cardiovascular genetics
		7-04. Ge Tao: Baylor College of Medicine Pitx2 Promotes Heart Repair by Regulating Respiratory Chain Components and the Antioxidant Response			Moderators: Calum MacRae and Vidu Garg
		7-05. Christopher Antos: DFG-Center for Regenerative Therapies Dresden Calcineurin Inhibition Enhances Regeneration: Fish Appendages Can Lead to Understanding Organ Allometry			9-01. Jane! R Cabrera: Beth Israel Deaconess Medical Center/Harvard Medical School Aberrant Endothelial-Myocardial Crosstalk Causes Hypertrophy in Noonan Syndrome with Multiple Lentiginos
10:30	11:00	Break			9-02. Anne-Karin Arndt: Department for Congenital Heart Disease and Pediatric Cardiology, University Kiel PRDM16 - a navel key player in personalized medicine
11:00	12:30	Platform session VIII, Ballroom A Cardiovascular genomics and transcriptional and epigenetic regulation			9-03. Silvia E Racedo: Albert Einstein College of Medicine Increased Tbx1 gene dosage and the 22q11.2 duplication syndrome
		Moderators: Da-Zhi Wang and Frank Conlon			9-04. H Joseph Yost: University of Utah Recessive and compound- heterozygous variants in navel gene pathways in congenital heart disease
		8-01. Brian L Black: UCSF Cooperative transcriptional activation of paired MEF2 sites by Myocardin and MEF2C	16:00	16:30	9-05. Kern: Medical University of South Carolina Lumican Deficiency Results In Cardiomyocyte Hypertrophy With Altered Collagen Assembly
		8-02. Lauren Waldron: University of North Carolina An evolutionarily evolved Tbx5/ Chd4 interaction provides mechanistic insight into atrial septation.	16:30	17:30	Break
		8-03. Luis Luna-Zurita: Gladstones Institute of Cardiovascular Disease Genomic and structural basis for regulation of cardiogenesis by heterotypic transcription factors	18:00	23:00	Keynote Lecture II: Christopher Walsh, Boston Children's and HHMI, Ballroom A Genes underlying human developmental brain disorders Closing banquet and awards, Room 302
		8-05. Jian Ding: Boston Children's Hospital Deletion of Trbp reveals a navel linear miR-208a-mediated pathway required for normal cardiac function			

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