

Schedule

The Educational Program will be in the **Eccles Institute of Human Genetics Building, 1st Floor Auditorium**. Scientific sessions will be held in the **Fort Douglas Ballroom** and all poster sessions in **City Creek and Bonneville rooms** at the University of Utah Guest House.

Thursday 14 February (Eccles Institute of Human Genetics)

2:00 PM	Registration
3:00-3:30 PM	Introduction about CHOOSE Development – Graciela Unguez, Karen Bennett and Ida Chow
3:30-5:00 PM	Hands-on activities by selected CHOOSE Development mentors
5:00-5:30 PM	Diversity in scientific research – Nicquet Blake, University of Texas Health Science Center at San Antonio
5:30-6:00 PM	Mentoring Minority Students – Graciela Unguez, New Mexico State University

Friday 15 February (University of Utah Guest House)

8:00-8:45 AM	Registration, Continental Breakfast
8:45-9:00 AM	Opening Remarks, H. Joseph Yost and Richard Behringer
9:00-10:00 AM	Keynote Speaker: Dr. Mario Capecchi, Nobel Laureate 2007 <i>"Gene Targeting into the 21st Century: Mouse Models of Human Disease from Cancer to Neuropsychiatric Disorders"</i> Introduction by Jeffery Barrow
10:00-10:30 AM	Coffee Break
10:30-12 Noon	Session I: Gene Regulation During Development Chair: Jeffery Barrow
10:30-10:45	S1. Clinton Whipple, Brigham Young University <i>"Evolution of the bract suppression network: exaptation or de novo integration?"</i>
10:45-11:00	S2. Jonathon Hill, University of Utah <i>"MMAPPR: Mutation Mapping Analysis Pipeline for Pooled RNA-seq."</i>
11:00-11:15	S3. Jacqueline Dresch, Harvey Mudd College <i>"Two-level developmental gene regulatory model to incorporate cis-regulatory and temporal information."</i>
11:15-11:30	S4. Aaron Johnson, University of Colorado, Denver <i>"A conserved RNA processing pathway coordinates striated muscle development."</i>

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- 11:30-12:00 **Steve Johnson**, Brigham Young University
"Nucleosome Organization and Positioning: From Human Cells to C. elegans."
- 12:00-3:00 PM** **Box Lunch and Poster Session I (Odd Numbered Posters presented from 1:00-3:00)**
- 3:00-4:30 PM** **Session II: Stem Cells and Regeneration**
Chair: Maureen Condic
- 3:00-3:15 **S6.** Ai Sun Tseng, University of Nevada, Las Vegas
"A Salty Tale: Building a Bioelectrical Blueprint for Vertebrate Regeneration."
- 3:15-3:30 **S7.** Colin Maguire, University of Utah
"Human amniocytes express a distinct multilineage phenotype that has a repressed cardiogenic status."
- 3:30-3:45 **S8.** Patrick Gordon, University of Utah
"Lhx2 Regulates Progenitor Cell Self-Renewal and Ensures Diversity During Retinal Neurogenesis."
- 3:45-4:15 **S9. Leslie Sieburth**, University of Utah
"Long distance Regulation of Shoot Stem Cell Activity"
- 4:15-4:30 **S10.** Matthew Keefe, University of Utah
"The molecular mechanisms controlling exocrine pancreas growth and regeneration."
- 4:30-5:00 PM** **Coffee Break**
- 5:00-6:30 PM** **Session III: Cardiovascular Development**
Chair: Jonathon Hill
- 5:00-5:30 **Ondine Cleaver**, UT Southwestern
"Extrinsic and intrinsic control of blood vessel morphogenesis"
- 5:30-5:45 **S11.** Shiela Samson, University of Utah
"Heparan Sulfate 3-OST-7 Regulates Contraction, Myofibrillogenesis, and BMP Signaling in the Zebrafish Cardiac Ventricle."
- 5:45-6:00 **S12.** Hinako Kidokoro, University of Utah
"Dynamic cell rearrangement driving early heart tube formation and looping."
- 6:00-6:30 **Paul Krieg**, University of Arizona
"The hemangioblast mystery. BMP controls a vascular to blood switch in Xenopus"
- 6:30-7:30 PM** **Social Hour and Poster Viewing**

Dinner on your own. List of local restaurants available at the registration desk.

Saturday 16 February (University of Utah Guest House)

- 8:00-8:30 AM Registration, Continental Breakfast**
- 8:30-10:00 AM Session IV: Early Embryonic Patterning**
Chair: Judith Neugebauer
- 8:30-9:00 **Jan Christian**, University of Utah
"Cleavage mutant mice reveal novel roles for BMP proprotein processing in regulating mature homodimer and heterodimer activity"
- 9:00-9:15 **S13.** Jody Hansen, University of Utah
"The Genetics of Sperm Rivalry."
- 9:15-9:30 **S14.** Emily Bates, Brigham Young University
"An Inwardly rectifying K⁺ channel is necessary for BMP signaling in the developing Drosophila wing"
- 9:30-9:45 **S15.** Sho Ohta, University of Utah
"Protein Kinase A Coordinates Dorsoventral Polarity Signals Driving Inner Ear Formation."
- 9:45-10:00 **S16.** Molly Jud, University of Utah
"JNK Signaling Antagonism: The role of Raw during Drosophila dorsal closure."
- 10:00-10:30 AM Coffee Break**
- 10:30-12 Noon Session V: Cell Biology and Morphogenesis**
Chair: Yukio Saijoh
- 10:30-11:00 **Patricia Leon Mejia**, National Autonomous University of Mexico
"How chloroplasts influence leaf development."
- 11:00-11:15 **S17.** Eric Domyan, University of Utah
"Endless pigeons most colorful: genetics and development of feather pigment diversity among domestic rock pigeons."
- 11:15-11:30 **S18.** George Eisenhoffer, University of Utah
"A Cell and Molecular Toolbox to Study Epithelia in Zebrafish."
- 11:30-11:45 **S19.** Kristen Kwan, University of Utah
"Laminin establishes apicobasal polarity in the developing eye."
- 11:45-12:00 **S20.** Elena Boer, University of Utah
"Understanding Fascin-Dependent Mechanisms of Collective Cell Migration in Development and Disease."
- 12:00-3:00 PM Box Lunch and Poster Session II (Even Numbered Posters presented from 1:00-3:00)**

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3:00-4:30 PM Session VI: Neural Patterning and Morphogenesis

Chair: Ed Levine

- 3:00-3:15 **S21.** Fabienne Poulain, University of Utah
"Proteoglycan-mediated selective degeneration corrects pre-target topographic sorting errors of retinal axons."
- 3:15-3:30 **S22.** Joseph Brzezinski, University of Colorado
"Blimp1 (Prdm1) prevents transdifferentiation of photoreceptors into bipolar cells during retinal development."
- 3:30-4:00 **Lee Niswander**, University of Colorado
"Gene-environment interactions during mammalian neural tube closure"
- 4:00-4:15 **S23.** Yuying Wang, University of Colorado
"Notch3 is required for establishing brain vascular stability by promoting pericyte development."
- 4:15-4:30 **S24.** Robert Duncan, University of Utah
"Wnt β -Catenin signaling regulation of Hypothalamic Radial Glial Cells during normal growth and homeostasis and during a regenerative response."

4:30-5:00 PM Coffee Break

5:00-6:15 PM Session VII: Genetic Disease Models

Chair: Kristen Kwan

- 5:00-5:15 **S25.** Lingyan Xing, University of Utah
"Developmental hypoxia affects serotonergic signaling and contributes to CNS connection errors in vertebrates."
- 5:15-5:30 **S26.** Allyson Merrell, University of Utah
"Whole or Hole? Development of a functional diaphragm muscle."
- 5:30-5:45 **S27.** Kaitlin Basham, University of Utah
"Loss of adhesion facilitates mammary gland branching morphogenesis."
- 5:45-6:15 **Carl Thummel**, University of Utah
"A developmentally programmed metabolic switch supports growth in Drosophila"

6:15-7:30 PM Social Hour and Poster Viewing

7:30-9:30 PM Banquet (Fort Douglas Ballroom)

8:15-8:30 Concluding Remarks and Award Presentation, H. Joseph Yost

8:30-10:30 PM Entertainment: Daniel Day Trio