

**THE SOCIETY OF CRANIOFACIAL GENETICS AND DEVELOPMENTAL BIOLOGY
FOLKMAN AUDITORIUM, ENDERS BUILDING, BOSTON CHILDREN'S HOSPITAL
OCTOBER 22, 2013**

Genomic Approaches to Uncover Disease Mechanisms

Moderator: **Matthew P. Harris**

8:45-9:00 *Welcome Introductory Announcements*

9:00-9:15 Justin Cotney

Identification of human orofacial enhancers and their role in orofacial clefts

9:15-9:30 Andrew O.M. Wilkie

New insights into craniosynostosis from whole exome and genome sequencing

9:30-9:45 Nicolas Rohner

What changes matter? A genomic approach to human evolution

9:45-10:00 Denise K. Liberton

Evidence for accelerated evolution of craniofacial loci across populations

10:00-10:30 *Break*

Comparative Models of Craniofacial Development and Disease

Moderator: **Hazel Sive**

10:30-11:00 Elaine Ostrander

Genetics of canine skull shape

11:00-11:15 Kara E. Powder

*A novel transcriptional regulator, *Ibh*, mediates craniofacial development, disease, and evolution*

11:15-11:30 Katrin Henke

Establishment of zebrafish as a model to dissect the genetic basis of late development of the skull

11:30-11:45 Rich Schneider

Regulation of jaw size during development and evolution

11:45-12:00 James Hanken

Diversity and constraint in the embryonic origin of the vertebrate skull

12:00-1:30 *Lunch (provided)
Business meeting in auditorium*

Mechanisms of Craniofacial Development

Moderator: **Ralph S. Marcucio**

1:30-2:00 Richard L. Maas

*The role of *SPECC1L* and other genes in oro-facial clefting*

2:00-2:15 Lisa L. Sandell

Cochleovestibular nerve development is integrated with migratory neural crest cells

2:15-2:30 Erika Kague

*Misregulation of osteoblast differentiation underlies abnormal craniofacial morphogenesis in *sp7* mutants*

2:30-2:45 Jun Wang

*MicroRNA-17-92, a direct *Ap-2α* transcriptional target, modulates *T-box* factor activity in orofacial clefting*

2:45-3:00 Katherine A. Fantauzzo

Intracellular pathways downstream of PI3K-mediated PDGFR α signaling regulate survival and proliferation in craniofacial development

3:00-3:30 *Coffee*

Genetics Insights into Craniofacial Disease

Moderator: **Eric C. Liao**

3:30-3:45 Richard J. Sherwood

The genetics of dentognathic morphology: the Jiri dental project

3:45-4:00 Jennifer L. Fish

*Regulatory influences of *fgf8* on hypoplasia and asymmetry of the craniofacial skeleton*

4:00-4:15 Nandini Singh

Effects of sonic hedgehog on craniofacial morphology: implications for patients with Down syndrome

4:15-4:30 Myriam Peyrard-Janvid

*Dominant mutations in *GRHL3* cause Van der Woude syndrome and disrupt oral periderm development*

4:30-5:00 Bjorn R. Olsen

Infantile hemangioma and craniofacial dysmorphogenesis - the Anthrax Toxin Receptor 1 connection

Scientific Poster Session

5:30- 7:30 *Poster presentation, reception and Awards ceremony at Courtyard Café*