
SUNDAY

- 4:00 pm - 9:00 pm Arrival and Check-in (Check-in Desk Closed 6:00 pm - 7:45 pm)
- 6:00 pm Dinner
- 7:30 pm - 7:40 pm Welcome / Introductory Comments by GRC Site Staff
- 7:40 pm - 9:30 pm **PLACODES: Development and Function**
- Discussion Leader: **Marianne Bronner-Fraser** (California Institute of Technology, Pasadena, USA)
- 7:40 pm - 8:05 pm **Gerhard Schlosser** (National University of Ireland, Galway, Ireland)
"Sense and sensibility -induction, specification and differentiation of cranial placodes"
- 8:05 pm - 8:15 pm Discussion
- 8:15 pm - 8:40 pm **Andrea Streit** (King's College London, UK)
"Cell fate decisions in the cranial sensory nervous system"
- 8:40 pm - 8:50 pm Discussion
- 8:50 pm - 9:05 pm **Linda Barlow** (University of Colorado, Denver, USA)
"Regulation of taste bud progenitor cell development by Wnt/B-catenin signaling"
- 9:05 pm - 9:10 pm Discussion
- 9:10 pm - 9:25 pm **Jean-Pierre Saint Jeannet** (University of Pennsylvania, Philadelphia USA)
"Attenuation of Sox9 function in the inner ear results in vestibular defects"
- 9:25 pm - 9:30 pm Discussion

MONDAY

- 7:30 am - 8:30 am Breakfast
- 9:00 am - 12:30 pm **NEURAL CREST CELLS: Development, Function and Disease**
- Discussion Leader: **Paul Trainor** (Stowers Institute for Medical Research, Kansas City, USA)
- 9:00 am - 9:25 am **Marianne Bronner-Fraser** (California Institute of Technology, Pasadena, USA)
"Formation of the cranial neural crest"
- 9:25 am - 9:40 am Discussion
- 9:40 am - 9:55 am **Mamoru Ishii** (University of Southern California, Los Angeles, USA)
"Sustainable stem cell potential of murine cranial neural crest"
- 9:55 am - 10:00 am Discussion
- 10:00 am Coffee Break / Group Photo

- 10:30 am - 10:45 am **Tatjana Sauker-Spengler** (California Institute of Technology, Pasadena, USA)
"Polycomb Repressive Complex 1 fine-tunes the regulatory network during early steps of neural crest cell formation"
- 10:45 am - 10:50 am Discussion
- 10:50 am - 11:15 am **Roberto Mayor** (University College, London, UK)
"Collective migration of neural crest cells"
- 11:15 am - 11:25 am Discussion
- 11:25 am - 11:40 am **Gage Crump** (University of Southern California, Los Angeles, USA)
"Histone 3.3-dependent chromatin remodeling is essential for ectomesenchyme potential of the cranial neural crest"
- 11:40 am - 11:45 am Discussion
- 11:45 am - 12:00 pm **Michela Ori** (University of Pisa, Pisa, Italy)
"5-HT2B receptor activity modulates morphogenesis and patterning of the mandibular arch"
- 12:00 pm - 12:05 pm Discussion
- 12:05 pm - 12:20 pm **Daisuke Sakai** (Stowers Institute for Medical Research, Kansas City, USA)
"Prevention of Treacher Collins syndrome craniofacial anomalies through inhibition of oxidative damage in neural crest cells"
- 12:20 pm - 12:30 pm Discussion
- 12:30 pm Lunch
- 1:30 pm - 4:00 pm Free Time
- 4:00 pm - 5:30 pm Poster Session
- 5:30 pm - 7:30 pm **DEVELOPMENTAL PATTERNING AND EVOLUTION**
Discussion Leader: **Chuck Kimmel** (University of Oregon, Eugene, USA)
- 5:30 pm - 5:45 pm **Melinda Modrell** (University of Cambridge, Cambridge, UK)
"A sixth sense: the development of vertebrate photoreceptors"
- 5:45 pm - 5:50 pm Discussion
- 5:50 pm - 6:05 pm **Shannon Fisher** (University of Pennsylvania, Philadelphia, USA)
"Contribution of neural crest cells to the zebrafish skeleton"
- 6:05 pm - 6:10 pm Discussion
- 6:10 pm - 6:35 pm **Michael Depew** (King's College London, UK)
"Cephalic ectodermal competence factors establish upper jaw pattern and morphology"
- 6:35 pm - 6:40 pm Discussion
- 6:40 pm - 6:55 pm **Joy Richman** (University of British Columbia, Vancouver, Canada)
"Molecular control of tooth replacement in reptiles"
- 6:55 pm - 7:00 pm Discussion

- 7:00 pm - 7:25 pm **Stan Lyonnet** (Université Paris Descartes, Paris, France)
"Disruption of long-distance highly conserved non coding sequences at the SOX9 locus, in craniofacial neurocristopathies"
- 7:25 pm - 7:30 pm Discussion
- 8:00 pm Dinner

TUESDAY

- 7:30 am - 8:30 am Breakfast
- 9:00 am - 12:30 pm **TISSUE INTERACTIONS AND MORPHOGENESIS**
Discussion Leader: **Andrea Streit** (University College London, UK)
- 9:00 am - 9:25 am **Irma Thesleff** (University of Helsinki, Helsinki, Finland)
"Placodes of teeth and other ectodermal appendages: regulation by signal pathways"
- 9:25 am - 9:40 am Discussion
- 9:40 am - 9:55 am **Xuiping Wang** (Harvard University, Boston, USA)
"Molecular regulation of supernumerary tooth formation"
- 9:55 am - 10:00 am Discussion
- 10:00 am Coffee Break
- 10:30 am - 10:55 am **Eldad Tzahor** (Weizmann Institute of Science, Rehovot, Israel)
"Neural crest - mesoderm interactions and the role of p53"
- 10:55 am - 11:05 am Discussion
- 11:05 am - 11:30 am **Yang Chai** (University of Southern California, Los Angeles, USA)
"Cranial neural crest and myogenic progenitor interactions in tongue development"
- 11:30 am - 11:40 am Discussion
- 11:40 am - 11:55 am **Alon Kahana** (University of Michigan, Ann Arbor, USA)
"Retinoic acid regulates a balance between Pitx2 and Pitx3 expression to promote morphogenesis of extraocular muscles in zebrafish"
- 11:55 am - 12:05 pm Discussion
- 12:05 pm - 12:20 pm **Abigail Tucker** (Kings College London, UK)
"Mouse models of conductive hearing loss"
- 12:20 pm - 12:30 pm Discussion
- 12:30 pm Lunch
- 1:30 pm - 4:00 pm Free Time
- 4:00 pm - 5:30 pm Poster Session
- 5:30 pm - 7:30 pm **SIGNALING AND COMMUNICATION**
Discussion Leader: **Michael Depew** (King's College, London, UK)
- 5:30 pm - 5:55 pm **Fred Relaix** (UPMC-Paris VI, Paris, France)

	"Analysis of Pax3 and Pax7 functions and downstream genetic networks in craniofacial development"
5:55 pm - 6:05 pm	Discussion
6:15 pm - 6:30 pm	Yukiko Kurihara (University of Toyko, Japan) "Non-coding RNA regulation of endothelin signaling in branchial arch development"
6:30 pm - 6:35 pm	Discussion
6:35 pm - 7:00 pm	Filippo Rijli (Friedrich Miescher Institute, Basel, Switzerland) "Mapping the face in the somatosensory brain stem"
7:00 pm - 7:10 pm	Discussion
7:10 pm - 7:25 pm	Cathy Krull (University of Michigan, Ann Harbor, USA) "Development of the Brainstem Taste Relay Nucleus"
7:25 pm - 7:30 pm	Discussion
8:00 pm	Dinner

WEDNESDAY

7:30 am - 8:30 am	Breakfast
9:00 am - 12:30 pm	CRANIOFACIAL SYNDROMES AND DISORDERS: MODELS AND GENETICS I
	Discussion Leader: Andrew Wilkie (Weatherall Institute, Oxford, UK)
9:00 am - 9:25 am	Danny Huylebroeck (University of Leuven, Belgium) "Conditional Zfh1b mutant mice for studying Mowat-Wilson syndrome"
9:25 am - 9:35 am	Discussion
9:35 am - 9:50 am	Yuji Mishina (University of Michigan, Ann Arbor, USA) "Smad-dependent BMP signaling directs cranial neural crest cell fate towards chondrocytes to cause craniosynostosis"
9:50 am - 10:00 am	Discussion
10:00 am	Coffee Break
10:30 am - 11:00 am	Gary Landreth (Case Western University, Cleveland, USA) "Perturbation of the ERK-MAP Kinase pathway in Neuro-cardio-facial cutaneous syndromes"
11:00 am - 11:10 am	Discussion
11:10 am - 11:25 am	Heiko Peters (University of Newcastle, Newcastle upon Tyne, UK) "Inactivation of the Cornelia de Lange syndrome locus cohesin-loading protein Nipbl affects proximal regions of neural crest cell-derived skull elements"
11:25 am - 11:30 am	Discussion
11:30 am - 11:45 am	Pilar Cejudo-Martin (Burnham Institute, San Diego, USA) "Disruption of the podosome adaptor protein TKS4 (SH3PXD2B) causes the craniofacial abnormalities of Frank-Terr Harr syndrome"

11:45 am - 11:50 am Discussion

11:50 am - 12:05 pm **Maria Mansilla** (University of Iowa, Iowa City, USA)
 "The role of MAFB and ABCA4 in the etiology of cleft lip and palate"

12:05 pm - 12:10 pm Discussion

12:10 pm - 12:25 pm **Victoria Leitch** (Women and Children's Health Research Institute, Adelaide, Australia)
 "The molecular mechanism of craniosynostosis: localized downregulation of RBP4 and its role in premature suture fusion"

12:25 pm - 12:30 pm Discussion

12:30 pm Lunch

1:30 pm - 4:00 pm Free Time

4:00 pm - 5:30 pm Poster Session

5:30 pm - 7:30 pm **CRANIOFACIAL SYNDROMES AND DISORDERS: MODELS AND GENETICS II**

Discussion Leader: **Rob Maxson** (University of Southern California, Los Angeles, USA)

5:30 pm - 6:00 pm **Max Muenke** (National Institutes of Health, Bethesda, USA)
 "Holoprosencephaly: the genotype predicts the phenotype"

6:00 pm - 6:10 pm Discussion

6:10 pm - 6:25 pm **Ralph Marcucio** (University of California San Francisco, USA)
 "Mechanisms underlying covariation of the brain and face"

6:25 pm - 6:35 pm Discussion

6:35 pm - 6:50 pm **Samantha Brugmann** (Stanford University, Stanford, USA)
 "Primary cilia provide a common etiology for a spectrum of midfacial defects"

6:50 pm - 6:55 pm Discussion

6:55 pm - 7:20 pm **Andy Copp** (Institute Child Health, London, UK)
 "Mechanisms of cranial neural tube closure - normal and abnormal"

7:20 pm - 7:30 pm Discussion

7:30 pm - 8:00 pm Business Meeting
 (Nominations for the next Vice Chair; Fill out Conference Evaluation Forms; Discuss future Site & Scheduling preferences; Election of the next Vice Chair)

8:00 pm Dinner

THURSDAY

7:30 am - 8:30 am Breakfast

9:00 am - 12:30 pm **STEMS CELLS, TISSUE ENGINEERING AND REGENERATION**

	Discussion Leader: Irma Thesleff (University of Helsinki, Finland)
9:00 am - 9:20 am	Brigitte Arduini (Rockefeller University, New York, USA) "Neural crest differentiation from human ES and iPS cells"
9:20 am - 9:25 am	Discussion
9:25 am - 9:50 am	Jennifer Elisseff (Johns Hopkins University, Baltimore, USA) "Tissue engineering and repair of craniofacial anomalies"
9:50 am - 10:00 am	Discussion
10:00 am	Coffee Break
10:30 am - 10:55 am	Wayne Grayson (Johns Hopkins University, Baltimore, USA) "Craniofacial and Orthopaedic Tissue Engineering"
10:55 am - 11:05 am	Discussion
11:05 am - 11:30 am	Pam Yelick (Tufts University, Boston, USA) "Tooth and Dare"
11:30 am - 11:40 am	Discussion
11:40 am - 12:05 pm	Paul Sharp (King's College London, UK) "Polycomb complex proteins regulate rodent incisor mesenchymal stem cells"
12:05 pm - 12:10 pm	Discussion
12:10 pm - 12:25 pm	Hidemitsu Harada (Iwate University, Iwate, Japan) "Live cell imaging of cervical loop epithelium in HERS formation process"
12:25 pm - 12:30 pm	Discussion
12:30 pm	Lunch
1:30 pm - 4:00 pm	Free Time
4:00 pm - 5:30 pm	Poster Session
5:30 pm - 7:30 pm	KEYNOTES: EVOLUTION, DEVELOPMENT AND DISEASE
	Discussion Leader: Paul Trainor (Stowers Institute, Kansas City, USA)
5:30 pm - 6:15 pm	Chuck Kimmel (University of Oregon, Eugene, USA) "Mechanisms of Craniofacial Variation and Evolution"
6:15 pm - 6:30 pm	Discussion
6:30 pm - 7:15 pm	Andrew Wilkie (Weatherall Institute, Oxford, UK) "Future directions for research into the craniosynostoses"
7:15 pm - 7:30 pm	Discussion
8:00 pm	Dinner
FRIDAY	
7:30 am - 8:30 am	Breakfast

9:00 am

Depart
