



**Society for Craniofacial Genetics & Developmental Biology  
46<sup>th</sup> Annual Meeting**

October 10<sup>th</sup>-12<sup>th</sup>, 2023

Cincinnati Children's Hospital Medical Center  
Cincinnati, Ohio

**Tuesday, October 10<sup>th</sup>, 2023**

**Cincinnati Art Museum**

953 Eden Park Dr  
Cincinnati, OH 45202  
Great Hall & Fath Auditorium

**Welcome (5:00 – 5:10 PM)**

*Amy Merrill, PhD, University of Southern California  
President, Society for Craniofacial Genetics and Developmental Biology*

**Awards Session (5:10 – 6:40 PM)**

*Session Chair: Amy Merrill, PhD, University of Southern California*

5:10 – 6:00 PM **David Bixler Excellence in Craniofacial Research Award**  
Sally Moody, George Washington University

6:00 – 6:50 PM **Marylou Buyse Excellence in Craniofacial Research Award**  
Justin Cotney, University of Connecticut Health Center

6:50 – 7:10 PM **Introduction of New NIDCR Program Officer**  
Zubaida Saifudeen, PhD (Program Director of the Developmental Biology and Genetics Program, NIDCR).

**Reception (7:10-9:00)**

*Hors d'oeuvres and drinks will be served.*

**Wednesday, October 11<sup>th</sup>, 2023**

**Sabin Auditorium,**

Cincinnati Children's Hospital Medical Center

Location D

3333 Burnet Ave,

Albert Sabin Way,

Cincinnati, OH 45229

**Check in (8:00 – 8:30 AM)**

**Workshops (8:35 – 10:25 AM)**

*Session Chair: Jean-Pierre Saint-Jeannet, PhD, New York University*

8:35 – 9:30 AM

**Spatial Transcriptomics Workshop**

Matthew Warman, MD Harvard Medical School

9:30 – 10:25 AM

**Scientific Communication**

Jason Organ, PhD Indiana University School of Medicine

*Communicating with Public Audiences Requires Different Approaches*

**Coffee Break (10:25 – 10:45 AM)**

**Signaling in Craniofacial Development (10:45 – 12:00 PM)**

*Session Chair: Katherine Fantauzzo, PhD, University of Colorado Anschutz Medical Campus*

10:45 – 11:15 AM

**Plenary talk:** Lisa Taneyhill, PhD, University of Maryland, College Park

*Building the trigeminal ganglion: A tale of two precursors*

11:15 – 11:30 AM

Jennifer Fish, PhD, University of Massachusetts Lowell

*Fgf8 dosage regulates patterning and symmetry of the first pharyngeal pouch, cleft, and arch*

11:30 – 11:45 PM

Jennyfer Mitchell, PhD, University of Colorado Anschutz Medical Campus

*Alx function in the frontonasal skeleton revives the pharyngeal arch-0 hypothesis*

11:45 – 12:00 PM

Evan Brooks, Cincinnati Children's Hospital Medical Center

*Ciliary protein C2cd3 is required for patterning mandibular musculoskeletal tissues*

**Lunch (12:00 – 1:15 PM) Boxed lunch provided.**

**Genomics of Craniofacial Development (1:15 – 2:30 PM)**

*Session Chair: Matthew Harris, PhD, Boston Children's Hospital & Harvard Medical School*

1:15 – 1:45 PM

**Plenary talk:** Robert Cornell, PhD, University of Washington

*An approach to the missing heritability of orofacial cleft: Transcriptional regulatory network models trained on single-cell multiome data reveal key regulators of periderm integrity.*

- 1:45 – 2:00 PM Kara Powder, PhD, Clemson University  
*Determining the origins of craniofacial variation using comparative genomics in Lake Malawi cichlid fishes*
- 2:00 – 2:15 PM Lorena Maili, PhD, Stowers Institute for Medical Research  
*Ribosome Biogenesis is Essential for Craniofacial Development and Palatogenesis*
- 2:15 – 2:30 PM Timothy Nguyen, University of Iowa  
*It Takes Two to Tango: TFAP2 Paralogs in a Frontonasal Dysplasia-Related Neural Crest Gene Regulatory Network*

**SCGDB Business meeting (2:30 – 3:00 PM)**

- 2:30 – 2:40 PM President's Comments (Amy Merrill, PhD)
- 2:40 – 2:45 PM Treasurer's report (Juhee Jeong, PhD)
- 2:45 – 2:55 PM Election for Secretary (host TBD)

**Break (3:00 - 3:30 PM)**

**Human Genetics of Craniofacial Development (3:30 – 4:45 PM)**

*Session Chair: Juhee Jeong, PhD, New York University*

- 3:30 – 4:00 PM **Plenary talk:** Timothy Cox, PhD, University of Missouri, Kansas City  
*Facing reality: the challenges of elucidating the genetics of common craniofacial anomalies*
- 4:00 – 4:15 PM Soma Dash, PhD, University at Albany  
*Mediator complex subunit, Med23 is required in both neural crest cells and endothelial cells to regulate craniofacial development*
- 4:15 – 4:30 PM Sarah Curtis, PhD, Emory University  
*Enrichment of de novo mutations in craniofacial enhancers in trios with orofacial clefts*
- 4:30 – 4:45 PM Jang Kim, University of Oklahoma Health Sciences Center  
*Calvaria agenesis in a mouse model of Penttinen Syndrome*

**Break and poster setup (4:45 – 5:30 PM)**

**Poster Session and Reception (5:30 – 7:30 PM)**

*Light refreshments will be served.*

**Thursday, October 12<sup>th</sup>, 2023**

**Translational and Regenerative Approaches in Craniofacial Biology (8:30 AM – 9:45 AM)**

*Session Chair: Lindsey Barske, PhD, Cincinnati Children's Hospital Medical Center*

- 8:30 – 9:00 AM      **Plenary talk:** Mildred Embree, DMD, PhD, MS, Columbia University  
*The lower jaw joint as a model for defining cartilage niche and chondrocyte identity*
- 9:00 – 9:15 AM      Jianfu Chen, PhD, University of Southern California  
*The development of temporomandibular joint (TMJ) osteoarthritis and pain at spatial single-cell resolution*
- 9:15 – 9:30 AM      Michi Kanai, PhD, University of Colorado Anschutz Medical Campus  
*The Gq/11 Family of Gα Subunits is Necessary and Sufficient for Lower Jaw Development*
- 9:30 – 9:45 AM      Katherine Inskeep, Nationwide Children's Hospital  
*SMPD4 Mediated Sphingolipid Metabolism Regulates Brain and Primary Cilia Development*

**Coffee Break (9:45 – 10:00 AM)**

**Special Session: Clinical Management of Craniofacial Differences (10:00 AM – 11:30 AM)**

*Session Chair: Elizabeth Leslie, PhD, Emory University*

- 10:00 – 10:30 AM      Russell Reid, MD, PhD, University of Chicago  
*A-Head of the Game: The Need for Craniofacial Research from A Surgeon's Perspective*
- 10:30 – 11:00 AM      Howard Saal, MD, FACMG Cincinnati Children's Hospital Medical Center  
*Collaboration Between Clinical Genetics and Research Genomics: Expanding Our Understanding of Craniofacial Conditions*
- 11:00 – 11:15 AM      Britteny Underwood, Cincinnati, OH  
*Connecting Face to Face*
- 11:15 – 11:30 AM      Carolina Sommer, Born a Hero, Seattle, WA  
*It began when my daughter was BORN A HERO*

**Awards and closing remarks (11:30 AM – 12:00 PM)**

*Amy Merrill-Brugger, PhD, University of Southern California*

**Adjourn - 12:00 PM**