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.
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.*
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<thead>
<tr>
<th>Time</th>
<th>Speaker/Institution</th>
<th>Topic</th>
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<tbody>
<tr>
<td>1:45 – 2:00 PM</td>
<td>Kara Powder, PhD, Clemson University</td>
<td>Determining the origins of craniofacial variation using comparative genomics in Lake Malawi cichlid fishes</td>
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<tr>
<td>2:00 – 2:15 PM</td>
<td>Lorena Maili, PhD, Stowers Institute for Medical Research</td>
<td>Ribosome Biogenesis is Essential for Craniofacial Development and Palatogenesis</td>
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<tr>
<td>2:15 – 2:30 PM</td>
<td>Timothy Nguyen, University of Iowa</td>
<td>It Takes Two to Tango: TFAP2 Paralogs in a Frontonasal Dysplasia-Related Neural Crest Gene Regulatory Network</td>
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**SCGDB Business meeting** (2:30 – 3:00 PM)

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<th>Activity/Participants</th>
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<tr>
<td>2:30 – 2:40 PM</td>
<td>President’s Comments (Amy Merrill, PhD)</td>
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<tr>
<td>2:40 – 2:45 PM</td>
<td>Treasurer’s report (Juhee Jeong, PhD)</td>
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<td>2:45 – 2:55 PM</td>
<td>Election for Secretary (host TBD)</td>
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<td>2:55 – 3:00 PM</td>
<td>Martine Dunnwald, PharmD, PhD, President of American Association of Anatomy</td>
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**Break** (3:00 - 3:30 PM)

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

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

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<tr>
<td>3:30 – 4:00 PM</td>
<td>Timothy Cox, PhD, University of Missouri, Kansas City</td>
<td>Plenary talk: Facing reality: the challenges of elucidating the genetics of common craniofacial anomalies</td>
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<tr>
<td>4:00 – 4:15 PM</td>
<td>Soma Dash, PhD, University at Albany</td>
<td>Mediator complex subunit, Med23 is required in both neural crest cells and endothelial cells to regulate craniofacial development</td>
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<tr>
<td>4:15 – 4:30 PM</td>
<td>Sarah Curtis, PhD, Emory University</td>
<td>Enrichment of de novo mutations in craniofacial enhancers in trios with orofacial clefts</td>
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<tr>
<td>4:30 – 4:45 PM</td>
<td>Jang Kim, University of Oklahoma Health Sciences Center</td>
<td>Calvaria agenesis in a mouse model of Penttinen Syndrome</td>
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**Break and poster setup** (4:45 – 5:30 PM)

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

*Light refreshments will be served.*

*FaceBase representative will be conducting demonstrations and answering questions during the poster session.*
Thursday, October 12th, 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
Matthew Harris, PhD, Boston Children’s Hospital*

**Adjourn** - 12:00 PM