



**Society for Craniofacial Genetics & Developmental Biology
47th Annual Meeting**

September 9th-11th, 2024

Stowers Institute for Medical Research and Children's Mercy Research Institute
Kansas City, Missouri

Monday, September 9th, 2024

**The National WWI Museum and Memorial
Auditorium**

2 Memorial Drive
Kansas City, MO 64108 USA

Welcome (4:30 – 4:35 PM)

Amy Merrill, PhD, University of Southern California, SCGDB President
Paul Trainor, PhD, Stowers Institute for Medical Research, Meeting Host

Awards Session (4:35 – 6:30 PM)

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

4:35 – 5:20 PM David Bixler Excellence in Craniofacial Research Award

Jean-Pierre Saint-Jeannet, PhD, New York University

5:20 – 6:05 PM Marylou Buyse Excellence in Craniofacial Research Award

Elizabeth Leslie, PhD, Emory University

6:05 – 6:35 PM Keynote Speaker: Daniel Jensen, MD, Children's Mercy Kansas City

Zooming out and zooming in: Treacher Collins syndrome as physician and patient

Reception (6:35 – 8:00 PM)

Hors d'oeuvres and drinks will be served in the Auditorium Lobby.

Tuesday, September 10th, 2024

**Stowers Institute for Medical Research
Auditorium**

1000 E 50th Street
Kansas City, MO 64110

Check in and poster set-up (8:00 – 8:45 AM)

Workshops (8:45 – 10:25 AM)

8:45 – 9:30 AM

How to Influence Editors and Win Over Reviewers

Paul Trainor, PhD, Editor in Chief *Developmental Dynamics*

Jean-Pierre Saint-Jeannet, PhD, Editor in Chief *genesis*

9:30 – 10:25 AM

Mentoring Up

Jeffrey Bush, PhD, University of California, San Francisco

Katherine Fantauzzo, PhD, University of Colorado Anschutz Medical Campus

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: Ronald Parchem, PhD, Baylor College of Medicine

The MIR302 family cooperatively regulates neural fate specification

11:15 – 11:30 AM

Greg Holmes, PhD, Icahn School of Medicine at Mount Sinai

Suture-specific regulation of coronal and lambdoid suture patency by HHIP and PTHLH activity in mice

11:30 – 11:45 PM

Elizabeth Barretto, PhD, University of Calgary

Quantifying the epistatic relationship between fibroblast growth factors 8 and 17 in embryonic craniofacial development

11:45 – 12:00 PM

Stefani Gjorcheska, BS, Cincinnati Children's Hospital Medical Center

Sox10 is required for systemic initiation of bone mineralization

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

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

Session Chair: David Clouthier, PhD, University of Colorado Anschutz Medical Campus

1:15 – 1:45 PM

Plenary talk: Axel Visel, PhD, Lawrence Berkeley National Laboratory

Distant-acting enhancers in craniofacial development and disease

1:45 – 2:00 PM

Pierre Le Pabic, PhD, University of North Carolina Wilmington

Anatomically specific regulation of growth zone activity by rargb in the cichlid skull

2:00 – 2:15 PM

Wei Zhang, PhD, University of Southern California

Ribosome biogenesis controls skull MSC fate via the complement pathway

2:15 – 2:30 PM

Yilun Huang, BS, Cincinnati Children's Hospital Medical Center

Sf3b2^{+/-}, but not Sf3b2^{flox/+};Wnt1-Cre, mice phenocopy craniofacial microsomia syndrome

SCGDB Business meeting (2:30 – 3:15 PM)

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| 2:30 – 2:35 PM | President's comments (Amy Merrill, PhD) |
| 2:35 – 2:45 PM | Election for Vice President and Treasurer |
| 2:45 – 2:50 PM | Treasurer's report (Juhee Jeong, PhD) |
| 2:50 – 3:15 PM | SCGDB affiliation discussion (Amy Merrill, PhD and Matthew Harris, PhD) |

Break and poster set-up (3:15 – 3:30 PM)

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

Session Chair: Timothy Cox, PhD, University of Missouri – Kansas City

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| 3:30 – 4:00 PM | Plenary talk: Seth Weinberg, PhD, University of Pittsburgh
<i>Investigating the genetics of cranial vault shape in humans</i> |
| 4:00 – 4:15 PM | Shuo Wei, PhD, University of Delaware
<i>Diphthamide deficiency promotes association of eukaryotic translation elongation factor 2 with p53 to induce p21 expression and neural crest defects</i> |
| 4:15 – 4:30 PM | Priyanka Kumari, PhD, University of Washington
<i>High incidence and geographic distribution of cleft palate cases in Finland are associated with a regulatory variant in IRF6</i> |
| 4:30 – 4:45 PM | Thoa Truong, BS, Stowers Institute for Medical Research
<i>Phenotypic characterization of genes with pathogenic splice disrupting variants associated with rare pediatric disorders of brain and craniofacial development</i> |

Break (4:45 – 5:00 PM)

Poster Session and Reception (5:00 – 8:00 PM)

Light refreshments will be served.

Wednesday, September 11th, 2024

Children's Mercy Research Institute

Auditorium

2401 Gillham Road
Kansas City, MO 64108

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

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

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| 8:30 – 9:00 AM | Plenary talk: Matthew Greenblatt, MD, PhD, Cornell University
<i>A dual stem cell basis for calvarial mineralization and pathologic fusion</i> |
| 9:00 – 9:15 AM | Samantha Brugmann, PhD, Cincinnati Children's Hospital
<i>Targeting Sufu-mediated Gli transcription alleviates ciliopathic phenotypes</i> |

9:15 – 9:30 AM Katherine Woronowicz, PhD, Boston Children's Hospital and Harvard Medical School
Setting aside differences: undescribed skeletal-like progenitors as fodder for development and evolution

9:30 – 9:45 AM Arshia Bhojwani, BS, University of Southern California
Investigating the role of LGRs in mouse and zebrafish jaw connective tissue stem cells

Coffee Break (9:45 – 10:00 AM)

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

Session Chair: Juhee Jeong, PhD, New York University

10:00 – 10:30 AM **Plenary talk:** Janice Lee, DDS, MD, MS, NIDCR
A paradigm shift – modular integration to predict facial development

10:30 – 11:00 AM Emily Farrow, PhD, CGC, Children's Mercy Kansas City
TBD

11:00 – 11:30 AM Courtney Berrios, MS, The Rare Voices Advisory Group, Children's Mercy Kansas City and Annette Campbell, MPA, RN, Rare Voices
Rare Voices: Engaging communities to inform the development of research

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

Amy Merrill, PhD, University of Southern California

Matthew Harris, PhD, Boston Children's Hospital and Harvard Medical School

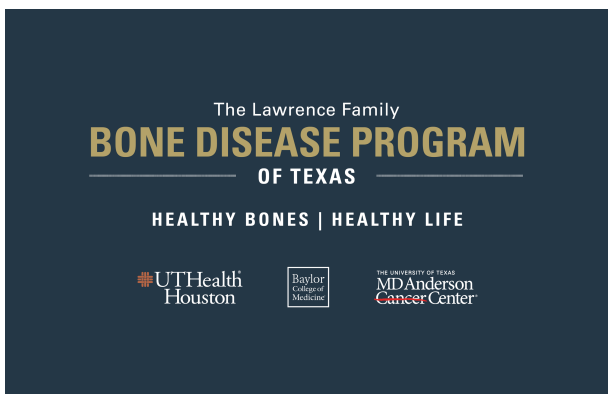
Adjourn - 12:00 PM

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