

## June 3 & 4 - FaceBase 2025 Community Forum

Information Sciences Institute  
10th Floor, Room 1014  
4676 Admiralty Way, Marina del Rey, CA 90292

Zoom link available upon registration. Email [help@facebase.org](mailto:help@facebase.org) for assistance.

### Meeting Objectives

The theme of the FaceBase 2025 Community Forum is

**“Enabling and Expanding the Reach of Craniofacial Research: Building Connections and Supporting Reuse”**

This year's focus will center on three key themes:

1. **Targeting the Entire Data Lifecycle to Maximize Data Reuse in Research:** Demonstrating FaceBase's role in facilitating the planning for and the sharing of original and derived data to maximize data reuse in the context of the data lifecycle.
2. **Promoting Use of Multi-dimensional Preclinical and Clinical Data:** Enhancing pre/clinical data contribution and use. Strengthening the connection between human diseases and relevant animal models.
3. **Expanding and Connecting Scientific Dental, Oral, Craniofacial and Inner Ear (DOC-IE) Data with Anatomically and Biologically Relevant Health and Disease Models:** Engaging more thought leaders, investigators, clinicians, organizations, and funders to explore FaceBase's unique offerings.

## Day 1 - Tuesday, June 3

Information Sciences Institute

10th Floor, Room 1014

PDT	All times are in Pacific Daylight Time
8:00 AM	<b>Registration</b>
9:00 AM (10 min)	<b>Introduction</b> Yang Chai, D.D.S., Ph.D. (USC)
9:10 AM (30 min)	<b>Opening Remarks</b> Jennifer Webster-Cyriaque, D.D.S., Ph.D., Acting Director, National Institute of Dental and Craniofacial Research (NIDCR/NIH); Debara L. Tucci, M.D., M.S., M.B.A., National Institute on Deafness and Other Communication Disorders (NIDCD/NIH) Susan Gregurick, Ph.D., Associate Director for Data Science and Director of the Office of Data Science Strategy (ODSS/NIH)
9:40 AM (30 min)	<b>FaceBase 4 Roadmap</b> (25 min talk/5 min Q&A) Carl Kesselman, Ph.D. (USC) and Rob Schuler, Ph.D. (USC)
<b>Keynote Talk</b>	
10:10 AM (40 min)	<b>The Need for High Quality Data for Data Reuse and Machine Learning</b> (30 min talk / 10 min Q&A) Helen M. Berman, Ph.D. (USC, co-founder of the Protein Data Bank (PDB))
10:50 AM (15 min)	<i>Break</i>
<b>Studies Comparing Normal and Abnormal Craniofacial Development</b>	
11:05 AM (25 min)	<b>Long Range Gene Regulation in the Developing Human Face</b> (20 min talk / 5 min Q&A) Justin Cotney, Ph.D. (Children's Hospital of Philadelphia)
11:30 AM (25 min)	<b>Beaks, Bones, and Beyond: Using Avian Models to Study Normal and Abnormal Development</b> (20 min talk / 5 min Q&A) Samantha Brugmann, Ph.D. (Cincinnati Children's Hospital)
11:55 AM (1 hour)	<i>Lunch – 60 min - Information will be provided for nearby lunch options.</i>
<b>Panel: Incorporating Relevant Clinical Elements (EMR/EDR, etc) into FaceBase to Effectively Facilitate Clinical Research</b>	
12:55 PM (50 min)	<b>Moderator:</b> Vidhya Venkateswaran, B.D.S., M.P.H., Ph.D. (NIH/NIDCR)

	<p><b>Panelists:</b> Parish Sedghizadeh, D.D.S, M.S. (Herman Ostrow School of Dentistry/University of Southern California) (chair); Mohammad Khalifeh D.D.S., M.S. (University of Southern California); Anette Vistoso Monreal D.D.S., M.S. (University of Southern California)</p> <p><b>Focus:</b> Incorporating EMR/EDR elements into FaceBase using USC clinical data on orofacial pain/TMD.</p>
<b>Connecting Clinical Tools and Data to Advance Craniofacial Pain Research – Integrating Imaging, AI, and Multimodal Data to Drive Discovery</b>	
1:45 PM (25 min)	<p><b>Approaches to Integration of Clinical Data into FaceBase: Highlighting work from BACPAC Using Multimodal Data Modeling for Chronic Low Back Pain and Dataset Aggregation and Harmonization</b> (20 min talk / 5 min of Q&amp;A)</p> <p>Thomas Peterson, Ph.D. (UCSF)</p>
2:10 PM (35 min)	<p><b>The Role of Artificial Intelligence in TMD and Orofacial Pain Diagnosis</b> (30 min talk/5 min of Q&amp;A)</p> <p>Glenn Clark, D.D.S, M.S. and Anette Vistoso Monreal, D.D.S., M.S (USC)</p>
2:45 PM (25 min)	<p><b>The Potential for Dynamic MRI to Study TMD and Other Craniofacial and Oral Conditions</b> (20 min talk / 5 min of Q&amp;A)</p> <p>Krishna S. Nayak, Ph.D. (USC)</p>
3:10 PM (20 min)	Break
<b>Poster Session</b>	
3:30 PM (90 min)	<p><b>Onsite Poster Session</b></p> <p>11th floor - Room 1135/37</p>
5:00 PM	Adjourn for the day
7:00 PM	<p><b>Group Dinner: Playa Provisions</b></p> <p>119 Culver Blvd, Playa Del Rey, CA 90293</p> <p>10 minutes from the meeting venue by car/rideshare. Attendees pay for their own dinner.</p>

## Day 2 - Wednesday, June 4th

Information Sciences Institute

10th Floor, Room 1014

PDT	All times are in Pacific Daylight Time
9:00 AM (15 min)	<b>Welcome/Recap of Day 1</b> Yang Chai, D.D.S., Ph.D. (USC)
<b>Keynote Speaker</b>	
9:15 AM (40 min)	<b>Vision for Data Science: Advancing Craniofacial Research Through Integration, Accessibility, and Innovation</b> (30 minutes talk, 10 minutes Q&A) Axel Visel, Ph.D. (Lawrence Berkeley National Lab)
<b>Reuses of FaceBase Data</b>	
9:55 AM (25 min)	<b>How FaceBase Data Helped Develop Designs for Pediatric Respirators</b> (20 min talk / 5 min of Q&A) Christopher Nemeth, Ph.D. (Applied Research Associates, Inc) and Benedikt Hallgrímsson (Univ of Calgary)
10:20 AM (25 min)	<b>3D Facial Analysis and Learning Using FaceBase Data</b> (20 min talk / 5 min Q&A) Peter Claes, Ph.D. (KU Leuven, Belgium)
<b>FaceBase in Related Health Domains</b>	
10:45 AM (25 min)	<b>Macroglossia in Beckwith-Wiedemann Syndrome</b> (20 min talk / 5 min Q&A) Jennifer Kalish, MD, PhD (Children's Hospital of Philadelphia)
<b>Panel: Leveraging FaceBase in Related Health Domains</b>	
11:10 AM (50 min)	<b>Moderator:</b> Helen Berman, Ph.D (USC, co-founder of the Protein Data Bank (PDB))  <b>Panelists:</b> Yang Chai (USC, FaceBase), Benjamin Yixing Xu (USC), Jennifer Kalish (CHOP), Axel Visel (LBL)  <b>Focus:</b> Exploring connections between DOC-IE research and relevant systemic health and disease models. Demonstrating FaceBase for sharing multi-modal datasets and multidisciplinary collaborations.
12:00 PM (5 min)	<b>Closing Thoughts</b> Carl Kesselman, Ph.D. (University of Southern California)

12:05 PM	<b>Meeting Adjourned</b>
1:30 PM (60 min)	<b>Internal Meeting for FaceBase, Advisors, NIDCR and NIDCD External Scientific Panel (ESP) and the NIH FaceBase staff</b> <i>10th Floor, Room 1014 with breakout room available for the ESP in 1016 (remote attendance available)</i>
2:30 PM	<b>Internal Members Adjourn</b>