

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 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 (DOCIE) 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	Registration and Breakfast <i>Gather your meeting materials and badge and enjoy breakfast (with coffee, tea and water)</i>
9:00 AM (10 min)	Introduction <i>Yang Chai, D.D.S., Ph.D. (USC)</i>
9:10 AM (20 min)	Opening Remarks <i>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)</i>
9:30 AM (40 min)	FaceBase 4 (25 min talk/15 min Q&A) Preview of the roadmap for the next five years of FaceBase. <i>Carl Kesselman, Ph.D. (USC) and Rob Schuler, Ph.D. (USC)</i>
Keynote Talk <i>Introduction by TBD</i>	
10:10 AM (40 min)	The Need for High Quality Data for Data Reuse and Machine Learning (30 min talk / 10 min Q&A) <i>Helen M. Berman, Ph.D (USC, co-founder of the Protein Data Bank (PDB))</i>
10:50 AM (15 min)	<i>Break - Refreshments available</i>
Scientific Talks A: Studies Comparing Normal and Abnormal Craniofacial Development Examples of researchers and clinicians who have compared normal vs. abnormal development <i>Moderator: TBD</i>	
11:05 AM (25 min)	Long Range Gene Regulation in the Developing Human Face (20 min talk / 5 min Q&A) <i>Justin Cotney, Ph.D. (Children's Hospital of Philadelphia)</i>
11:30 AM (25 min)	Title TBD (20 min talk / 5 min Q&A) <i>Samantha Brugmann, Ph.D. (Cincinnati Children's Hospital)</i>
11:55 PM (1 hour)	<i>Catered Lunch – 60 min</i>
Panel A: Incorporating relevant clinical elements (EMR/EDR, etc) into FaceBase to effectively facilitate clinical research <i>Moderator: Vidhya Venkateswaran, B.D.S., M.P.H., Ph.D. (NIH/NIDCR)</i>	
12:55 PM (50 min)	<i>Panelists: Parish Sedghizadeh, D.D.S, M.S. (Herman Ostrow School of Dentistry/University of Southern California) (chair)</i> <ul style="list-style-type: none"> Panelists: TBD <i>Dr. Sedghizadeh's lab is contributing data from a clinical database at USC - patients with oral/facial pain, heart issues, TMD as a pilot project for demonstrating incorporating elements of EMR/EDR into FaceBase.</i>

	<p><i>Discussion points:</i></p> <ul style="list-style-type: none"> • <i>How such an offering can answer user's research questions</i> • <i>Ways to make such a database accessible online at facebase.org (this is a new type of offering)</i> • <i>AI-readiness in clinical data for reuse in research</i> • <i>What data elements should or should not be included for an initial pilot project to be useful? For example, pharmaceutical metadata is incredibly complex</i> • <i>Consent issues</i>
<p>Scientific Talks B: Connecting Clinical Tools and Data to Advance Craniofacial Pain Research – Integrating Imaging, AI, and Multimodal Data to Drive Discovery</p> <p>Leveraging FaceBase to support cross-disciplinary data science research and expand the value of FaceBase data</p> <p><i>Moderator: TBD</i></p>	
1:45 PM (25 min)	<p>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 (20 min talk / 5 min of Q&A)</p> <p><i>Thomas Peterson, Ph.D. (UCSF)</i></p>
2:10 PM (35 min)	<p>The Role of Artificial Intelligence in TMD and Orofacial Pain Diagnosis (30 min talk/5 min of Q&A)</p> <p><i>Glenn Clark, D.D.S, M.S. and Anette Vistoso Monreal, D.D.S., M.S (USC)</i></p>
2:45 PM (25 min)	<p>The Potential for Dynamic MRI to Study TMD and Other Craniofacial and Oral Conditions (20 min talk / 5 min of Q&A)</p> <p><i>Krishna S. Nayak, Ph.D. (USC)</i></p>
3:10 PM (20 min)	<p><i>Break – Refreshments available</i></p>
<p>Poster Session</p>	
3:30 PM (90 min)	<p>Onsite Poster Session and Reception</p> <p>Opens with Lightning Talks of posters (opt-in)</p> <p><i>11th floor - Room 1135/37</i></p>
5:00 PM	<p>Adjourn for the day</p>
7:00 PM	<p>Group Dinner</p> <p>Playa Provisions</p> <p>119 Culver Blvd, Playa Del Rey, CA 90293</p> <p>10 minutes from the meeting venue by car/rideshare.</p>

Day 2 - Wednesday, June 4th

Information Sciences Institute - 10th Floor, Room 1014

PDT	All times are in Pacific Daylight Time
8:00 AM (60 min)	Breakfast Enjoy a breakfast (Coffee, tea and water also available) and mingle with fellow attendees.
9:00 AM (15 min)	Welcome/Recap of Day 1 <i>Yang Chai, D.D.S., Ph.D. (USC)</i>
Keynote Speaker <i>Introduction by TBD</i>	
9:15 AM (40 min)	Vision for Data Science: Advancing Craniofacial Research Through Integration, Accessibility, and Innovation (30 minutes talk, 10 minutes Q&A) <i>Axel Visel, Ph.D. (Lawrence Berkeley National Lab)</i>
Scientific Talks C: Reuses of FaceBase Data Examples of the FaceBase community's reuse of FaceBase data <i>Introduction by TBD</i>	
9:55 AM (25 min)	How FaceBase Data Helped Develop Designs for Pediatric Respirators (20 min talk / 5 min of Q&A) <i>Christopher Nemeth, Ph.D. (Applied Research Associates, Inc) and Benedikt Hallgrímsson (Univ of Calgary)</i>
10:20 AM (25 min)	3D Facial Analysis and Learning Using FaceBase Data (20 min talk / 5 min Q&A) <i>Peter Claes, Ph.D. (KU Leuven, Belgium)</i>
FaceBase in Related Health Domains	
10:45 AM (25 min)	Macroglossia in Beckwith-Wiedemann Syndrome (20 min talk / 5 min Q&A) <i>Jennifer Kalish, MD, PhD (Children's Hospital of Philadelphia)</i>
Panel B: Temporary title: FaceBase in Related Health Domains Exploring connections between DOC research and relevant systemic health and disease models. Demonstrating FaceBase for sharing diverse datasets and multidisciplinary collaborations. <i>Moderator: Helen Berman (tentative)</i>	
11:10 AM (50 min)	Panelists: Yang Chai (USC, FaceBase), Benjamin Yixing Xu (USC), Jennifer Kalish (CHOP), Axel Visel (LBL) Discussion points: <ul style="list-style-type: none"> What insights can the FaceBase data provide for and beyond DOCIE? Conversely, how can data from related biological, health, and disease areas inform DOCIE research? What is the role of FaceBase in sharing data across NIH institutions and encouraging interdisciplinary research?

12:00 PM (5 min)	Closing Thoughts <i>Carl Kesselman, Ph.D. (University of Southern California)</i>
12:05 PM	Adjourn/Lunch Lunch available while attendees can mingle and talk about the meeting before they travel home.
1:30 PM (60 min)	Internal Meeting for FaceBase, Advisors, NIDCR and NIDCD External Scientific Panel (ESP) and the NIH FaceBase staff <i>10th Floor, Room 1014 with breakout room available for the ESP in 1016 (remote attendance available)</i>
2:30 PM	Internal Members Adjourn