May 7 & 8 - FaceBase 2024 Community Forum

NIH Main Campus
Building 35A in Room 620/630
9000 Rockville Pike, Bethesda, Maryland 20892
Zoom link available upon registration.

Meeting Objectives

The theme of the FaceBase 2024 Community Forum is “Supporting data-driven research spanning the translational spectrum with diverse dental, oral, and craniofacial data.”

The objectives for this meeting include:

1. Learn how FaceBase can effectively bridge investigators and clinicians to discover and translate health solutions.
2. Define the needs of FaceBase data contributors and users for improvement of the FaceBase features, capabilities, and data offerings.
3. Illustrate best practices for data sharing to maximize reusability and comply with NIH's Data Management and Sharing (DMS) policy and implementation guidelines.
4. Provide networking and collaboration opportunities among diverse groups of investigators.
5. Provide hands-on workshops or breakout sessions on data analysis, the use of FaceBase tools, and other relevant skills to empower researchers and contributors.
6. Describe ways that FaceBase can further synergize with other resources for data intensive research.
7. Discuss strategies for outreach to and engagement with underrepresented groups in the research community.
**Monday, May 6th**

**NIH Building 31, 6C Rooms F&G**

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| **1:00 PM (3 hours)** | **Tutorial for NIH Intramural Researchers: Using FaceBase to Access and Share Data**  
Rob Schuler, PhD, USC and Alejandro Bugacov, PhD, USC  
This is an onsite-only training for the NIH intramural investigators, clinicians and trainees who conduct foundational, translational, and clinical research of dental, oral, craniofacial, as well as anatomically and biologically relevant diseases and conditions.  
This tutorial addresses both those who want to learn about what FaceBase offers and how to use it as well as those who are interested in contributing data to fulfill their Data Management Sharing (DMS) plans.  
Registration for this event is separate. If you are a member of the NIH Intramural program, please visit this link for more information and to register. |

**Tuesday, May 7th - Day 1**

**NIH Building 35A, Room 620/630**

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| **9:00 AM (10 min)** | **Introduction**  
Yang Chai, DDS, PhD (USC) |
| **9:10 AM (10 min)** | **Opening Remarks**  
Rena D’Souza, DDS, PhD, Director of NIDCR |
| **9:20 AM (40 min)** | **FaceBase3 Review with a focus on Year 5 (25 min talk/15 min Q&A)**  
Carl Kesselman, PhD (USC) and Rob Schuler, PhD (USC)  
**Cleft Palate/Cleft Lip Case Study**  
In this session, we are using malformation as a case study to bring biomedical investigators, data scientists, clinicians, and data resource developers together to have a meaningful discussion of how data science can help facilitate translation.  
**Moderator:** Zubaida Saifudeen, PhD (NIH/NIDCR) |
| **10:00 AM (20 min)** | **Jeffrey Bush PhD (UCSF) (Remote speaker)** |
| **10:20 AM (20 min)** | **Developmental programs for palate development (15 min talk / 5 min Q&A)**  
Junichi Iwata DDS, PhD (UTHealth) |
| **10:40 AM (20 min)** | **Devin Feigelson (Operation Smile)** |
## Craniosynostosis Case Study

In this session, we look at the connection between skull malformation and brain function; how data science aids basic discovery to clinical implementation.

Moderator: TBD

### 11:15 AM (20 min)

**Ethylin W. Jabs MD (Mayo Clinic)**

### 11:35 AM (20 min)

**A data-driven approach to the management of craniosynostosis (15 min talk / 5 min Q&A)**

*Antonio R. Porrás, PhD (University of Colorado Anschutz and Children’s Hospital Colorado)*

### 11:55 AM (20 min)

**Jesse Goldstein MD (University of Pittsburgh)**

### 12:15 PM (1 hour)

**Lunch – 60 min**

## Data Stewardship Session

### 1:15 PM (10 min)

**Opening Remarks**

*Alicia Chou, MS or Noffisat Oki, PhD*

### 1:25 PM (20 min)

**How FaceBase can support data stewardship best practices (10 min talk / 10 min Q&A)**

*Laura Pearlman (USC)*

### Data Sharing Examples (or continuation of Data Stewardship Session)

Examples of FaceBase contributors and users who exemplify the FaceBase ecosystem of data sharing (demonstrating the reciprocal interactions between FaceBase Hub and data contributors and users).  
*(15 min talk with 5 min Q&A each)*

### 1:45 PM (20 min)

**EnamelBase (amelogenesis imperfecta) and FaceBase (15 min talk / 5 min Q&A)**

*Derk Joester PhD (Northwestern University) and Jan Hu, BDS, PhD (University of Michigan) (Remote)*

### 2:05 PM (20 min)

(Speaker pending)

### 2:25 PM (20 min)

(Speaker pending)

### 2:45 PM (30 min)

**Opportunities for Training Data Scientists in Ghana: FaceBase and Beyond (20 min talk / 10 min of Q&A)**

*Christy M. McKinney PhD, MPH (University of Washington) (Remote)*

### 3:15 PM (15 min)

**Break – 15 min**

## Poster Session

### 3:30 PM (90 min)

**Onsite Poster Session and Reception**

### 5:00 PM

**Adjourn for the day**

### 6:00 PM

**Group Dinner starts 6:00**
### Wednesday, May 8th

NIH Building 35A, Room 620/630

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| 9:00 AM (15 min)  | Welcome/Recap of Day 1  
Yang Chai (USC)   |
| 9:15 AM (20 min)  | Human enhancers (15 min talk / 5 min Q&A)  
Aki Ushiki PhD (UCSF) |
| 9:35 AM (20 min)  | Contributions of non-coding human variants on the etiology of non-syndromic clefts (15 min talk / 5 min Q&A)  
Emmanuel Aladenika (Univ of Iowa) (Remote) |
| 9:55 AM (60 min)  | Panel: Bridging foundational, translational, clinical, and public health research – Lessons learned and future perspectives  
Chair: Ethylin W. Jabs, MD (Mayo Clinic)  
Panelists:  
- Antonio R. Porras, PhD (University of Colorado Anschutz and Children’s Hospital Colorado)  
- Devin Feigelson (Operation Smile)  
- Junichi Iwata, DDS, PhD (UTHealth)  
- Jay Patel, BDS, PhD (Temple University) |
| 10:55 AM (10 min) | Break |
| 11:05 AM (60 min) | Panel: Expanding FaceBase to accommodate research needs for integrated EHR, imaging and -omics data  
Moderator: Vidhya Venkateswaran, PhD (NIH/NIDCR)  
Panelists:  
- FaceBase Hub (Rob Schuler, PhD, or Carl Kesselman, PhD)  
- University of Pittsburgh representative (Mary Marazita, PhD, tentatively)  
- A third panelist is TBD |
| 12:05 PM (15 min) | Closing Thoughts 15 minutes (Yang Chai) |
| 12:20 PM         | Adjourn |