

FaceBase: an NIDCR–funded resource for the craniofacial research community

- Promotes multidisciplinary collaboration and research in craniofacial development, molecular genetics, and genomics
- Works to integrate genomic and phenotype data from multiple species
- Includes research on the developmental biology and genetics of a variety of craniofacial structures
- Provides large datasets to members of the research community for use in their own projects

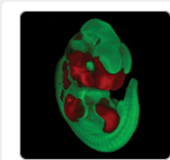
www.facebase.org



FaceBase - Comprehensive data and resources for craniofacial researchers

FaceBase is a collaborative NIDCR-funded consortium generating data in support of advancing research into craniofacial development and malformation. Members of the consortium contribute large datasets of a variety of types and make them available to the wider research community via this website. [Read the FAQs.](#)

Featured Publications [View all FaceBase publications here.](#)



Fine tuning of craniofacial morphology by distant-acting enhancers.

Attanasio C, Nord AS, Zhu Y, Blow MJ, Li Z, Liberton DK, Morrison H, Plajzer-Frick I, Holt A, Hosseini R, Phouanavong S, Akiyama JA, Shouky M, Afzal V, Rubin EM, FitzPatrick DR, Ren B, Hallgrímsson B, Pennacchio LA, Visel A. *Science*. 2013 Oct 25;342(6157):1241006. doi: 10.1126/science.1241006.

[Related FaceBase datasets](#)

Browse the Data Repository by Attributes [Get started with one of these or start from scratch.](#)

Try the new [Mouse Matrix](#) to visualize our mouse data.

By Organism

- Mouse
- Zebrafish
- Human

By Genomics Data

- Human Genotype and Phenotype Assay
- Expression Profiling
- Enhancer Identification
- Gene Expression Pattern

By Imaging Modality

- microCT
- microMRI
- OPT Images

Anatomical Resources

[Mouse Anatomy and Age Stage Matrix](#)
 Datasets by mouse anatomy and age stages.

[Mouse Anatomy](#)
 Images of mouse anatomical features by age stage.

[FishFace](#)
 Developmental atlas of zebrafish.

[OCDM](#)
 Ontology for craniofacial anatomy and development.

Genetic Repositories and Resources

[Gene Summary](#)
 Descriptions of selected genes for mouse and human. Includes gene expression pattern drawings and links to related FaceBase datasets.

[Genome Browser](#)
 Our custom track on the UCSC Genome Browser.

[Gene Expression Omnibus](#)
 Curated set of mouse gene expression data.

[Human Genomics Analysis Interface](#)

3D Imaging Resources

[3D Facial Norms Database](#)
 High-quality craniofacial anthropometric normative data.

[CranioGUI](#)
 Software to analyze facial abnormalities.

[Using 3D Viewers in the Data Browser](#)
 Information on viewing 3D imaging data.

FaceBase Data Methods About Projects Help Log in Sign up

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Selected by: [Clear All Filters](#) [Experiment Type RNA expression \(mi...](#)

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Gene expression microarray - mouse E10.5 maxillary arch

Accession	Investigator	Summary
FB0000008	Steve Potter	Gene expression microarray using tissue obtained by laser capture microdissection (LCM) from the maxillary arch of mouse embryos at E10.5. The results are also presented as tracks on the Facebase Genome Browser Mirror

Gene expression microarray - mouse E10.5 mandibular arch

Accession	Investigator	Summary
FB0000009	Steve Potter	Gene expression microarray using tissue obtained by laser capture microdissection (LCM) from the mandibular arch of mouse embryos at E10.5. The results are also presented as tracks on the Facebase Genome Browser Mirror

Gene expression microarray - mouse E10.5 medial-nasal process

Accession	Investigator	Summary
FB0000103	Steve Potter	Gene expression microarray using tissue obtained by laser capture microdissection (LCM) from the medial-nasal process of mouse embryos at E10.5. The results are also presented as tracks on the Facebase Genome Browser Mirror

Gene expression microarray - mouse E11.5 single cell from medial-nasal process

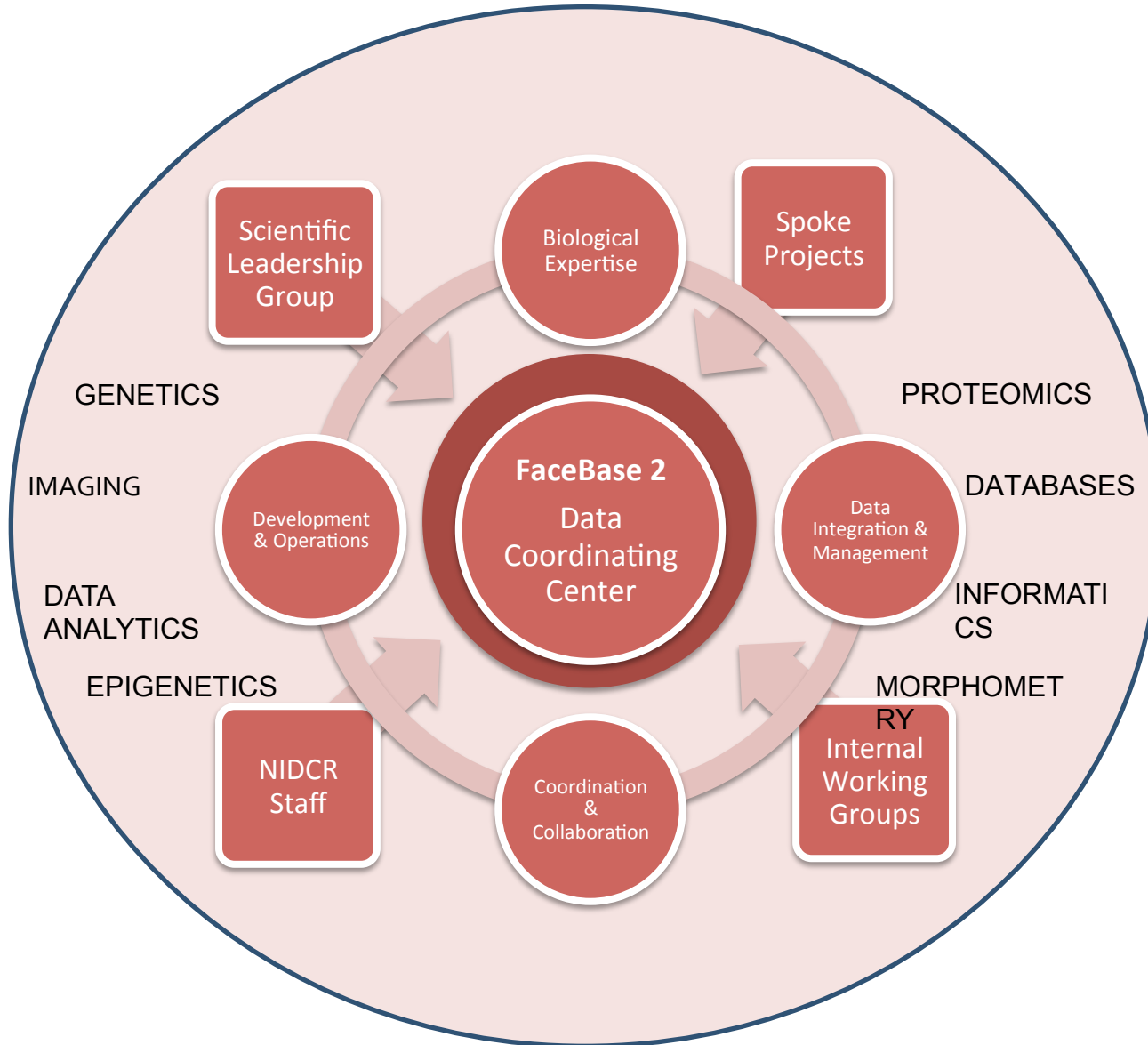
Accession	Investigator	Summary
FB0000104	Steve Potter	Gene expression microarray using a single cell obtained by laser capture microdissection (LCM) from the medial-nasal process of mouse embryos at E11.5. See Genome Browser Track

Gene expression microarray - mouse E10.5 lateral-nasal process

Accession	Investigator	Summary
FB0000105	Steve Potter	Gene expression microarray using tissue obtained by laser capture microdissection (LCM) from the lateral-

- Chromatin modifier-associated region ide...
- Enhancer reporter gene assay
- Hard tissue microCT images
- Human genotype and phenotype data
- microMRI images
- miRNA expression (RNA-Seq)
- Morphometric analysis
- Protein expression data
- RNA expression (microarray)
- RNA expression (RNA-seq)
- Soft tissue microCT images

FaceBase 2 Consortium



Discussion topics at this meeting

- What data do users want to see from my project?
- How do I make my data more useful for others?
- How can hub and spoke interactions help to create integrated data displays to better serve the community?
- What are some of the immediately achievable goals for us?