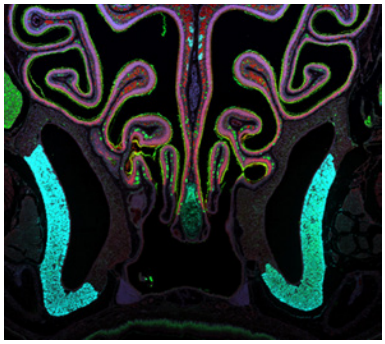
Fiscal Year 2023

HIGHLIGHTS
Across the Institute

National Institute of Dental and Craniofacial Research

About Us

At the National Institute of Dental and Craniofacial Research (NIDCR), our mission is to advance fundamental knowledge about dental, oral, and craniofacial health and disease and translate these findings into prevention, early detection, and treatment strategies that improve overall health for all individuals and communities across the lifespan.

How We Accomplish Our Mission

NIDCR **supports scientists at all stages of their careers**, from pre-college students to independent researchers, and **funds cutting-edge basic, translational, and clinical research** to **create the scientific foundation** for oral health policy and practice. NIDCR **shares research findings** and **health information** with the public, health care professionals, researchers, and policy makers to promote oral health for all.

Leading the Way to Improve Oral Health

The **NIDCR Strategic Plan 2021-2026** charts a course for supporting science that advances oral health for all.

The **Oral Health in America: Advances and Challenges** report is a far-reaching examination of the nation's oral health, including calls to action for addressing persistent oral health challenges.

NIDCR Recent Accomplishments

- Partnered with the **Helping to End Addiction Long-term® (HEAL) Initiative** to speed up scientific solutions for oral complications arising from pharmacotherapies used to treat opioid use disorders.
- Piloted projects and enrolled study participants in the **Sjögren's Team for Accelerating Medicines Partnership (STAMP)** through the Accelerating Medicines Partnership® Autoimmune and Immune-Mediated Diseases (AMP® AIM) Program. The goal is to understand the biology of Sjögren's disease, an autoimmune disorder, to identify new biomarkers and therapeutic targets.
- Released over 1,000 data sets through a collaborative world-wide project, **FaceBase**, a hub for data-intensive research on face and skull development. The recently renewed FaceBase program will expand community outreach, training, and educational resources.

FACTS ABOUT NIDCR

- Largest funder of oral health research in the world, with an annual budget of more than **$520 million**
- Funds approximately 785 grants, 350 trainees, and 220 organizations
- Provides 63% of NIH's funding to dental schools in the United States
- Supports 82% of NIH awardees who have dental or oral health-related degrees
- Awards 44% of its extramural budget to dental schools
- Funds research that provides the evidence base for clinical decision-making by over 200,000 dental professionals in the United States

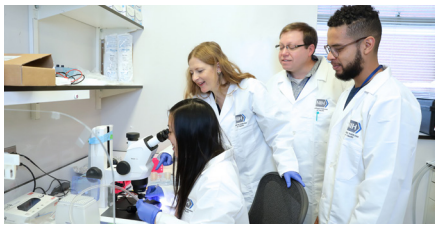
Supporting the Next Generation of Oral Health Researchers

NIDCR invested over **$27 million** to support **research training and career development programs** spanning the career stages of scientists to help build a vibrant community of researchers.

SPOTLIGHT

Mentoring and Career Development Opportunities

NIDCR Dual Degree Dentist Scientist Predoctoral to Postdoctoral Transition Award provides support and mentorship to dual degree graduates transitioning from predoctoral student to postdoctoral scholar.



Research Across the United States

NIDCR invested over **$412 million** to support biomedical research at universities, dental schools, medical schools, and small businesses, primarily in the United States. Examples of current and future initiatives include:

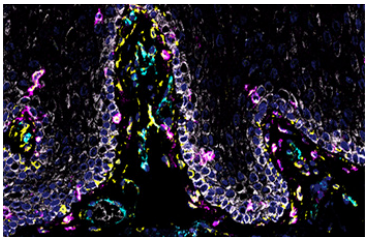
- **Advancing Oral Health Across the Lifespan: A Workshop**, a National Academies of Sciences, Engineering, and Medicine (NASEM) workgroup co-sponsored by NIDCR, explores innovative practices and models for advancing oral health in the United States across the lifespan.
- **Advancing Precision Imaging for Enhanced Diagnosis and Treatment of Oral Lesions** aims to enhance accuracy, detection, diagnosis, and personalized treatment of oral lesions.
- **Collaborative Science to Achieve Disruptive Innovations in Dental, Oral and Craniofacial Research** supports transdisciplinary research teams that address questions with the potential to advance dental, oral, and craniofacial research.
- **NIDCR Award for Sustaining Outstanding Achievement in Research (SOAR)** provides long-term support for outstanding mid-career investigators to conduct innovative research with potential for improving dental, oral, and craniofacial health.
- **Developing Salivary Components as Therapeutics for Oral Health** encourages interdisciplinary research that harnesses the functional components of saliva towards therapeutics to restore the health of the oral cavity.

Research on the NIH Campus

NIDCR invested over **$75 million** to support basic, translational, and clinical intramural research and training on the NIH campus, which includes the state-of-the-art NIH Clinical Center Dental Clinic that serves NIH's unique patient populations.

Some examples include:

- The **Dental Clinic Research Core** supports research to develop diagnostics and treatments for dental, oral, and craniofacial diseases, including salivary gland disorders and craniofacial anomalies.
- **Periodontal Disease Research** explores the underlying mechanisms that trigger gum disease. One recent study uncovered that gum cells detect changes in mouth microbiome composition that may trigger inflammation and gum disease.



www.nidcr.nih.gov/about-us/highlights

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