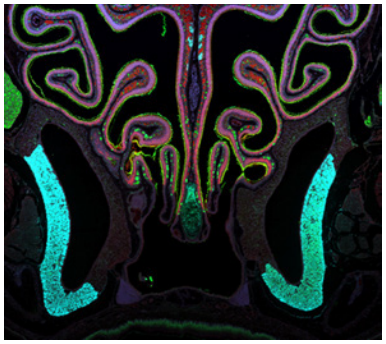
Fiscal Year 2025

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 career stages**, from pre-college students to independent researchers, and funds cutting-edge **basic, translational, and clinical research** to generate 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

- In partnership with multiple NIH institutes and the U.S. Food and Drug Administration, NIDCR established the **TMD Collaborative for IMproving PAtient-Centered Translational Research (TMD IMPACT) Initiative**, with the goal of advancing basic and clinical TMD research, research training, and translation to evidence-based treatments and improved clinical care.
- NIDCR supports high-impact, translational research through initiatives such as the **Dental, Oral, and Craniofacial Tissue Regeneration Consortium (DOCTRC)**, to advance the development of promising treatments to regenerate tissues of the head and face.
- NIDCR is improving patient care through **medical-dental integration** efforts to better assess overall health. One relevant study developed clinical criteria to characterize the autoimmune disorder **Sjögren's disease**, based on data in the patient's electronic health record. Researchers examined links of Sjögren's disease to co-morbidities including other autoimmune disorders.

FACTS ABOUT NIDCR

- Largest funder of oral health research in the world, with an annual budget of more than **$520 million**
- Funds approximately 769 grants, 320 trainees, and 220 organizations
- Supports 78% of NIH awardees who have dental or oral health-related degrees
- Awards over 41% 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
- Funded work leading to over 60,000 publications and the development of over 175 drugs

Supporting the Next Generation of Oral Health Researchers

NIDCR invested over **$13 million** to support **research training and career development programs** spanning the career stages of scientists to help build a vibrant community of researchers.

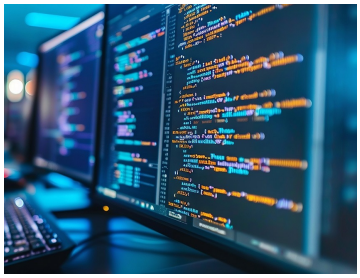
SPOTLIGHT

NIDCR Data-Driven Science Hub

NIDCR launched the **Data-Driven Science (DDS) Hub**, a centralized resource for dental, oral, and craniofacial researchers, enabling high-quality data sharing, modern analytics, and data science approaches to improve discovery, transparency and reproducibility, and patient outcomes.

NIDCR DDS Hub



Research Across the United States

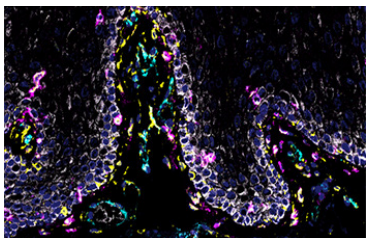
NIDCR invested over **$407 million** to support biomedical research at universities, dental schools, medical schools, and small businesses, primarily in the United States. Selected examples of current areas of interest (also known as Highlighted Topics) include:

- **Accelerating Research in Celiac Disease**
- **Advancing "Science of Science" Research to Understand and Strengthen the Biomedical Research Ecosystem**
- **Advancing Autoimmune Disease Research: Integrating Genetic, Environmental, and Immunological Factors to Improve Diagnosis and Treatment**
- **Advancing Childhood and Adolescent & Young Adult (AYA) Cancer Research**
- **Advancing Microbiome Science Through Multidisciplinary Mechanistic Investigations of the Human Microbiome in Health and Disease**
- **Advancing the Use of Genomic Information Into Clinical Care**
- **Computational Modeling of Complex Processes Across Biological Scales**
- **Implementation Science to Optimize HIV Prevention and Treatment**
- **Optimal Interprofessional Teaming and Care Coordination Strategies for Cancer Care Quality and Outcomes**
- **Quantum Information Science & Technologies for Biomedical Applications**
- **Research on the Transition from Pediatric to Adult Health Care**
- **Strengthening Biomedical Research, Promoting Trust, and Improving Health through Bioethics Research**

NIDCR Grants and Funding

Research on the NIH Campus

NIDCR invested over **$78 million** to support basic, translational, and clinical intramural research and training on the NIH campus, including the state-of-the-art NIH Clinical Center Dental Clinic that serves NIH's unique patient populations. Some examples include:

- By examining the normal looking enamel of people with the rare disease Loeys-Dietz syndrome, researchers were able to identify underlying structural defects in their teeth. This has led to a better general understanding of why teeth chip or erode, **improving diagnostic and prevention approaches for all.**

- Researchers helped lead clinical testing of a drug, encaleret, for use in autosomal dominant hypocalcemia type 1 (ADH1), a genetic condition that causes dangerously low calcium levels. This work **translates precision medicine insights** into a potential therapy for a rare disease through a public-private partnership.

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