

Special Issue

Artificial Intelligence in Oral Medicine: Advancements and Challenges

Message from the Guest Editor

Artificial intelligence (AI), particularly machine learning and deep learning, is rapidly transforming oral medicine. These technologies offer immense potential for improving diagnostic accuracy and efficiency in clinical image analysis and documentation. However, significant challenges remain. This Special Issue seeks to explore both the advancements and challenges of AI in oral medicine. We invite submissions that address topics including, but not limited to, the following:

- Developing robust and generalizable AI models for diverse dental clinical settings;
- Overcoming legal, ethical, and financial hurdles to AI implementation;
- Integrating AI into existing dental workflows and practices;
- Evaluating the impact of AI on patient outcomes and experiences;
- Addressing bias and fairness in AI algorithms for oral healthcare;
- Exploring the future of AI in oral medicine education.

We encourage submissions from researchers, clinicians, educators, and other stakeholders engaged in the development and application of AI in oral medicine.

Guest Editor

Dr. Xiaoyuan Han

Department of Biomedical Sciences, Arthur A. Dugoni School of Dentistry, University of the Pacific, San Francisco, CA 94103, USA

Deadline for manuscript submissions

20 December 2025



Oral

an Open Access Journal
by MDPI

Impact Factor 1.1
Indexed in Scopus



mdpi.com/si/221861

Oral
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
oral@mdpi.com

mdpi.com/journal/

[oral](https://mdpi.com/journal/)





Oral

an Open Access Journal
by MDPI

Impact Factor 1.1
Indexed in Scopus



[mdpi.com/journal/
oral](https://mdpi.com/journal/oral)



About the Journal

Message from the Editor-in-Chief

Oral is an official, peer-reviewed publication from MDPI, which deals with the key issues of oral health and its related fields. It allows for the dissemination of scientific research focused on emerging problems in the fields of dentistry and oral health, providing a forum to promote scientific information. Indeed, the need to face emerging problems, such as the progressive aging of the population and the impact of technological progress on healthcare, represents some pillars on which to build novel therapeutic strategies in the field of dentistry. *Oral* provides a great opportunity to contribute to progress in the field of oral health through the distribution of high-quality articles

Editor-in-Chief

Prof. Dr. Giuseppina Campisi

Department of Rehabilitation, Fragility and Continuity of Care, Unit of Oral Medicine, University Hospital Palermo, 90127 Palermo, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within ESCI (Web of Science), Scopus and other databases.

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 23.3 days after submission; acceptance to publication is undertaken in 9.9 days (median values for papers published in this journal in the first half of 2025).