EDITORIAL

Journal of Oral and Dental Approaches (*JODA*): Innovative Perspectives in Oral Health, Dentistry, and Clinical Research

Aida Meto[1,2,3,*]

[1] Department of Dentistry, Faculty of Dental Sciences, University of Aldent, Tirana 1007, Albania
[2] Department of Surgery, Medicine, Dentistry and Morphological Sciences with Interest in Transplant, Oncology and Regenerative Medicine, University of Modena and Reggio Emilia, Modena 41125, Italy
[3] Department of Dental Research Cell, Dr. D. Y. Patil Dental College and Hospital, Pune 411018, India

As Louis Pasteur once stated, "Science knows no country, because knowledge belongs to humanity, and is the torch which illuminates the world"; embracing this spirit of collaboration without borders, we are proud to present the inaugural editorial of the *Journal of Oral and Dental Approaches* (*JODA*).

Dentistry is undergoing rapid transformation, where advances in 3D printing for materials and surgical devices are streamlining design and workflow in maxillofacial care [1]. In parallel, foundation models are reshaping intelligent decision-making across the biomedical continuum [2], and AI is accelerating progress in restorative dentistry from diagnosis to treatment planning [3]. Breakthroughs in nanomaterials are opening new options for prevention and therapy [4, 5], while insights into mitochondrial regulation of dental-derived mesenchymal stem cells deepen our understanding of tissue regeneration [6]. At the same time, fundamental work on hydrogen sulfide biology and protein aggregation/cell viability underscores how basic science can illuminate oral–systemic connections and future therapeutic directions [7]. These developments directly support regenerative strategies in clinical endodontics, with cell-homing approaches advancing through recent trials [8] and molecular programs guiding odontoblast-like differentiation [9].

Yet oral diseases remain among the most prevalent non-communicable conditions globally (3.5 billion affected), disproportionately impacting vulnerable populations and demanding equitable solutions [10]. Perspectives from human evolutionary nutrition refine how we view diet, behavior, and health across time [11], while novel antimicrobial leads from underexplored botanicals highlight opportunities for affordable, context-appropriate interventions [12]. At the microbial interface, evidence from ancient dental calculus charts the long arc of the host–oral microbiome relationship [13]. Contemporary work details the dynamic ecology of oral communities and host interactions [14] and the assembly and disease impact of oral polymicrobial consortia [15]. Building on this, saliva is emerging as a practical diagnostic

Submitted: 21 September 2025
Accepted: 18 December 2025
Published: 22 December 2025

Vol. 1, **No.** 1, 2026.
10.62762/JODA.2025.688967

***Corresponding author:**
✉ Aida Meto
aida.meto@ual.edu.al

Citation
Meto, A. (2025). Journal of Oral and Dental Approaches (JODA): Innovative Perspectives in Oral Health, Dentistry, and Clinical Research. *Journal of Oral and Dental Approaches*, 1(1), 1–3.

© 2025 by the Author. Published by Institute of Central Computation and Knowledge. This is an open access article under the CC BY license (https://creativecommons.org/licenses/by/4.0/).

matrix for systemic diseases [16], aided by robust methods for parallel DNA and microRNA isolation from cell-free saliva and salivary extracellular vesicles that enable epigenetic and multi-omics analyses [17].

The *JODA* is committed to rigorous editorial and ethical standards and to open access, ensuring that high-quality, peer-reviewed research informs clinical practice, education, and policy worldwide. This launch is an invitation to researchers, clinicians, educators, public-health professionals, and industry partners to share ideas, challenge assumptions, and co-create the future of oral healthcare. By accelerating translation from discovery to chairside application, we aim to improve outcomes, enhance quality of life, and reduce global disparities in oral health.

Data Availability Statement

Not applicable.

Funding

This work was supported without any funding.

Conflicts of Interest

The author declares no conflicts of interest.

Ethical Approval and Consent to Participate

Not applicable.

References

[1] Wang, X., Mu, M., Yan, J., Han, B., Ye, R., & Guo, G. (2024). 3D printing materials and 3D printed surgical devices in oral and maxillofacial surgery: design, workflow and effectiveness. *Regenerative Biomaterials, 11*, rbae066. [CrossRef]

[2] Huang, J., Xu, Y., Wang, Q., Wang, Q. C., Liang, X., Wang, F., ... & Fei, A. (2025). Foundation models and intelligent decision-making: Progress, challenges, and perspectives. *The Innovation*. [CrossRef]

[3] Najeeb, M., & Islam, S. (2025). Artificial intelligence (AI) in restorative dentistry: current trends and future prospects. *BMC Oral Health, 25*(1), 592. [CrossRef]

[4] Sreenivasalu, P. K. P., Dora, C. P., Swami, R., Jasthi, V. C., Shiroorkar, P. N., Nagaraja, S., ... & Anwer, M. K. (2022). Nanomaterials in dentistry: current applications and future scope. *Nanomaterials, 12*(10), 1676. [CrossRef]

[5] Abedi, M., Ghasemi, Y., & Nemati, M. M. (2024). Nanotechnology in toothpaste: Fundamentals, trends, and safety. *Heliyon, 10*(3). [CrossRef]

[6] Liu, H., Xu, K., He, Y., & Huang, F. (2023). Mitochondria in Multi-Directional Differentiation of Dental-Derived Mesenchymal Stem Cells. *Biomolecules, 14*(1), 12. [CrossRef]

[7] Ostrakhovitch, E. A., Song, E. S., Stegemann, J. E., McLeod, M., & Yamasaki, T. R. (2025). Effect of hydrogen sulfide on alpha-synuclein aggregation and cell viability. *Scientific Reports, 15*(1), 15597. [CrossRef]

[8] Yan, H., De Deus, G., Kristoffersen, I. M., Wiig, E., Reseland, J. E., Johnsen, G. F., ... & Haugen, H. J. (2023). Regenerative endodontics by cell homing: a review of recent clinical trials. *Journal of Endodontics, 49*(1), 4-17. [CrossRef]

[9] Pan, G., Zhou, Q., Pan, C., & Zhang, Y. (2025). Role and Molecular Mechanism of miR-586 in the Differentiation of Dental Pulp Stem Cells into Odontoblast-like Cells. *Cell Biochemistry and Biophysics, 83*(1), 507-517. [CrossRef]

[10] Bawaskar, H. S., & Bawaskar, P. H. (2020). Oral diseases: a global public health challenge. *The Lancet, 395*(10219), 185-186. [CrossRef]

[11] Alt, K. W., Al-Ahmad, A., & Woelber, J. P. (2022). Nutrition and health in human evolution–past to present. *Nutrients, 14*(17), 3594. [CrossRef]

[12] Sailo, H., Khiangte, L., Lalremliani, Ralte, L., Singh, S. P., & Singh, Y. T. (2025). Exploring the Nutritional and Antimicrobial Properties of Wild Fruit, Castanopsis tribuloides: In Vitro and In Silico Insights for Potential Antimicrobial Drug Development. *Scientifica, 2025*(1), 2106755. [CrossRef]

[13] Putrino, A., Marinelli, E., Galeotti, A., Ferrazzano, G. F., Ciribè, M., & Zaami, S. (2024). A Journey into the Evolution of Human Host-Oral Microbiome Relationship through Ancient Dental Calculus: A Scoping Review. *Microorganisms, 12*(5), 902. [CrossRef]

[14] Lamont, R. J., Koo, H., & Hajishengallis, G. (2018). The oral microbiota: dynamic communities and host interactions. *Nature reviews microbiology, 16*(12), 745-759. [CrossRef]

[15] Hajishengallis, G., Lamont, R. J., & Koo, H. (2023). Oral polymicrobial communities: Assembly, function, and impact on diseases. *Cell host & microbe, 31*(4), 528-538. [CrossRef]

[16] Surdu, A., Foia, L. G., Luchian, I., Trifan, D., Tatarciuc, M. S., Scutariu, M. M., ... & Budala, D. G. (2025). Saliva as a Diagnostic Tool for Systemic Diseases—A Narrative Review. *Medicina, 61*(2), 243. [CrossRef]

[17] Yousaf, I., Kegler, U., Hofner, M., & Noehammer, C. (2025). Evaluation of Commercially Available Kits for Parallel DNA and microRNA Isolation Suitable for Epigenetic Analyses from Cell-Free Saliva and Salivary Extracellular Vesicles. *International Journal of Molecular Sciences, 26*(13), 6365. [CrossRef]

Dr. Aida Meto is a specialist in orthodontics and endodontics and holds a PhD in Clinical and Experimental Medicine from the University of Modena and Reggio Emilia, Italy. In 2025, she earned the Italian National Scientific Qualification (ASN) as Associate Professor. She lectures at Aldent University (AL) and the University of Modena (IT), with more than 60 peer-reviewed publications. Her research centers on oral microbiology, biofilm control, and advanced dental materials. She also serves as a reviewer and editorial board member for several international journals. (Email: aida.meto@ual.edu.al)