EDITORIAL

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

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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

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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.

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Conflicts of Interest

The author declares no conflicts of interest.

Ethical Approval and Consent to Participate

Not applicable.

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