



## New Insights of Molecular Dentistry in Dental Management and Oral Biology

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**Introduction:** Evolution in dentistry, dental materials, genetics and disease management has been growing over the last few decades. Understanding the links between genetics and dental and oral diseases could result in better treatment option. This knowledge could also result in better control and prevention of diseases. In dentistry, the hereditary factors involvement in caries, oral cancer, periodontal diseases, malformation of the teeth, congenially missing teeth or common oral disorders are becoming highly evident in dentistry together with the collaboration of systematic genetic disease on oral health care. Gene therapy has been introduced for dental management. Molecular dentistry and utilization of genes is being used to treat & manage various dental aspects such as regeneration & repair of teeth, orofacial pain, bone repair, cancer management and orthodontic tooth movement. All this information will help a dentist in proposing effective prevention & treatment protocol for oral diseases. This review demonstrates various links between genetic predisposition and effect on dental & oral issues.

**Conclusion:** The future of molecular and genetic implications in dentistry, in this the use of dental genetic and molecular techniques might develop in the future. The focus will be on targeting genetics to regenerate dental tissues rather than repair those using dental materials. This can be achieved by investigating the specific genes involved in evolution and maintenance of dental and surrounding tissues.

**Keywords:** Molecular Biology, Genetics in Dentistry, Molecular dentistry, Gene therapy.

### Biography

Dr. Priyanka Tiwari did her Bachelor's in Dental Surgery (BDS) and Master's in Dental Surgery (MDS) in Prosthodontics from India. Completed a Certificate course on Medical Affairs in 2020 from Singapore Duke-NUS Medical University. She has 6 years of experience including teaching & clinical in various eminent hospitals, college and clinics. She practices Prosthodontics as well as general dentistry. She was invited to appear LIVE twice on GSTV channel in the program name YES DOCTOR SHOW in July 2014 & September 2014. She has 6 publications in various national & international journals. She has done 3 researches. She is a part of reputed associations in India i.e. Indian Dental Association (IDA) and Indian Prosthodontic Society (IPS). She was also invited in 2018 as a Speaker & Chairperson in 2 international conferences to Kuala Lumpur, Malaysia and Bali, Indonesia. She has been invited in 2020 to become a Speaker in 3 International Conference. Finally, she is also a Reviewer to 10 national & international journals. Editorial board member in 4 international journals.



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