

## Special Issue

# Advances in Genetic Diseases of Teeth

### Message from the Guest Editors

Healthy teeth are comprised of three mineralized tissues, enamel, dentin, and cementum. These three unique mineralized tissues are fabricated by highly specialized cells: ameloblasts, odontoblasts, and cementoblasts. Initial studies of hereditary tooth defects have focused on the extracellular effects of mutant proteins involved in amelogenesis, dentinogenesis, and cementogenesis. However, in recent years there has been increasing evidence suggesting that mutant matrix proteins such as amelogenin, enamelin, or dentin sialophosphoprotein are prone to misfolding, resulting in intracellular pathologies such as endoplasmic reticulum (ER) stress and unfolded protein response (UPR), which in turn affect the composition and mechanical properties of dental mineralized tissues.

This Special Issue aims to publish case reports, original research articles, and critical reviews that report recent advances in inherited tooth defects, including the identification of novel gene mutations, the elucidation of cellular and molecular mechanisms, the generation of animal models to investigate the pathogenesis of a mutant gene/protein, and the development of therapeutic interventions.

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### Guest Editors

Dr. Yongbo Lu

Prof. Dr. Chunlin Qin

Prof. Dr. Thomas G. H. Diekwisch

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### Deadline for manuscript submissions

closed (15 March 2023)

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## Genes

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### Message from the Editor-in-Chief

*Genes* is central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fast-moving field. There is a need for good quality, open access journals in this area, and the *Genes* team aims to provide expert manuscript handling, serious peer review, and rapid publication across the whole discipline of genetics. Starting in 2010, the journal is now well established and recognised. Why not consider *Genes* for your next genetics paper?

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### Editor-in-Chief

Prof. Dr. Selvarangan Ponnazhagan  
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