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# Zirconia and Innovative Biomaterials for Dental and Biomedical Applications

Guest Editors:

## Prof. Dr. Sangwon Park

Department of Prosthodontics, Dental Science Research Institute, School of Dentistry, Chonnam National University, Gwangju 61186, Korea

#### Prof. Dr. John G. Fisher

School of Materials Science and Engineering, Chonnam National University, Gwangju 61186, Korea

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# **Message from the Guest Editors**

Zirconia and zirconia-based materials have a wide range of applications in the biomedical and dentistry fields owing to their excellent mechanical properties, aesthetics, and biocompatibility. This issue critically explores the art and surface  $\circ f$ zirconia treatments state (mechanical/chemical/physical), which are a significant challenge in implantology in designing implant biomaterial using advanced technologies which have evolved rapidly to enrich the biological and osteointegration process of dental implants. The surface characteristics are proposed to improve the capacity of anchorage into the bone that determines the long-term clinical success rate. Besides, digital technology (CAD/CAM and 3D printing) in dentistry plays a crucial role in the fabrication of dental restorations and prostheses because of its efficient manufacturing process with high accuracy in a short time. The perfectibility of technology and the suitability of materials are considered as the ultimate requisite for the future.

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#### Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada

2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, OC H3A 0C7, Canada

# **Message from the Editor-in-Chief**

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