

Special Issue

The Contribution and Application of Molecular Biology in the Applied Biosciences – Focusing on Medicine, Biomaterials and Tissue Engineering Fields

Message from the Guest Editors

The rapid development of new approaches and techniques in the area of molecular biology has led to new insights in the field of medicine for clinical applications and biomaterial science for tissue engineering approaches. More specifically, investigative methods of molecular biology have made inroads into uncovering fundamental medical processes that are revealed when we fully understand their molecular details. Cloning tools, CRISPR/Cas9 technology, DNA arrays and next-generation sequencing are some of the molecular biology tools used in in guiding drug discovery and development diagnostic methods. Additionally, as molecular biologists progressively discover the pathogenetic mechanisms that underly several entities, evidence regarding the correct combination of extracellular and intracellular chemical gradients, cellular attachments complexes and other stimuli required to activate tissue regeneration is revealed. The aim of this Special Issue is to gather all the relevant new insights and updates from the field of medicine, biomaterials and tissue engineering under the prism of molecular biology tools.

Guest Editors

Dr. Ioannis Tsamesidis

Department of Biomedical Sciences, University of Sassari, Sassari, Italy

Dr. Evangelia Stalika

1. Lab of Computing, Medical Informatics and Biomedical Imaging Technologies, School of Medicine, AUTH, 54124 Thessaloniki, Greece
2. Department of Prosthodontics, School of Dentistry, Faculty of Health Sciences, Aristotle University of Thessaloniki, 54124 Thessaloniki, Greece

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
cimb@mdpi.com

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Editor-in-Chief

Prof. Dr. Madhav Bhatia

Department of Pathology and Biomedical Science, University of Otago,
Christchurch, 2 Riccarton Avenue, P.O. Box 4345, Christchurch 8140,
New Zealand

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