



## State-of-the-Art Molecular and Translational Medicine in Poland

Guest Editor:

### Dr. Małgorzata Wrzosek

Department of Biochemistry and  
Pharmacogenomics, Faculty of  
Pharmacy, Medical University of  
Warsaw, Banacha St. 1, 02-097  
Warsaw, Poland

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### Message from the Guest Editor

New therapeutic approaches require the knowledge and skills of multiple disciplines. Comprehensive exploration of biological mechanisms and the molecular pathogenesis of major human diseases enable personalized treatment. The integration of omics approaches in combination with modeling approaches and systems biology may play a crucial role in establishing novel clinical applications. Sequencing of individual human genomes has provided the opportunity to develop pharmacogenetics in routine medical practice in order to avoid side effects and to choose the best drug and dose according to each individual genotype.

For this Special Issue, we seek papers focused on mechanisms associated with the development of diseases, including cell-to-cell metabolic crosstalk in physiology and pathology and in cancer research. New insights into molecular mechanisms related to therapy effectiveness and changes in gene expression that have important implications for understanding genotype-phenotype maps are also of importance. There is no doubt that further knowledge is required for the future development and new methods for the early detection, prevention, treatment, and prognosis of diseases.





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### Prof. Dr. Felipe Fregni

1. Neuromodulation Center and  
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Massachusetts General Hospital,  
Harvard Medical School, Boston,  
MA 02114, USA  
2. Department of Epidemiology,  
Harvard T.H. Chan School of  
Public Health, Boston, MA 02115,  
USA

## Message from the Editor-in-Chief

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*Biomedicines* Editorial Office  
MDPI, St. Alban-Anlage 66  
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