

## Special Issue

# The Interface between Human Physiology and Medical Device Development

### Message from the Guest Editor

The evolution in current medical practice has been built on a foundation of a growing improved understanding of the fundamental physiological principles that control the human body function. In parallel, over the last 30 years, the discipline of biomedical engineering has reported on a vast wealth of knowledge of how the human body interacts with foreign materials, and has grown our understanding of the forces and dynamics of these interactions. These two disciplines have merged to great effect in modern medicine, where clinicians can now treat human disease with a level of specificity and sensitivity unimaginable 30 years ago. There has been an explosion in the development of medical device technologies with the arrival of novel physiological sensors (both wearable and implantable), actuators (both mechanical and electrical), improved signal processing tools, and machine learning algorithms. All of this allows, for example, for heart disease in individual patients to be not only managed better, but managed remotely.

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### Guest Editor

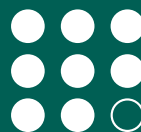
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### Deadline for manuscript submissions

closed (30 November 2020)



## Journal of Personalized Medicine

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Medicine*  
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## About the Journal

### Message from the Editor-in-Chief

*Journal of Personalized Medicine* is one of the few journals that covers the diverse areas involved in the field, including research at basic, translational, and clinical levels. It focuses on “omics”-level studies that seek to define the basis of interindividual variation in susceptibility for a disease, its prognosis or definition of clinical subsets, and response to therapy (pharmacogenomics). We are also interested in systems biology as it relates to interindividual variation, and research on new methodologies, informatics, and biostatistics, in the aforementioned areas.

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### Editor-in-Chief

Prof. Dr. Kenneth P.H. Pritzker

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