



Cardiomyopathy and Precision Medicine

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

The diagnosis of the most common forms of cardiomyopathies, dilated and hypertrophic cardiomyopathies, have long been based on morphology and function by non-invasive diagnostic modalities (e.g., echocardiography). In addition, despite extensive studies on biophysical, cellular, and animal models, the current approaches to the management of patients with cardiomyopathies remain largely unchanged.

Recent advances in genetics, proteomics, metabolomics, and microbiomics broadened our understanding of the molecular and cellular pathophysiology of cardiovascular diseases including cardiomyopathies, which can potentially lead to more precise risk prediction and the discovery of the optimal treatment strategies for individual patient. Also, novel approaches such as artificial intelligence and machine learning to medical big data from various sources including clinical registries, electronic health records, biomarkers, medical images, and all spectrum of 'omics' data (e.g., genomic, proteomic, and metabolomic data) have a huge potential of empowering personalized medicine for cardiomyopathy patients.

Dr. Yuji Nagatomo

Guest Editor





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Message from the Editor-in-Chief

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