# **Special Issue**

# Cardiovascular Disease Risk Stratification in the Era of Machine Learning and Personalized Medicine

## Message from the Guest Editor

Machine learning (ML) has been promisingly applied in cardiovascular medicine in recent years, both for disease diagnosis and in prognosis prediction. Compared with traditional statistical techniques, ML algorithms can analyze variables by performing greater numbers of mathematical operations and better define complex relationships between risk factors and outcomes of interest, strengthening the predictive process. The extraction and integration of data from various possible sources (clinical measurements and observations, biological -omics, experimental results, wearable devices) make cardiovascular disease particularly suitable for the application of ML techniques. However, at present, the lack of generalizability, reproducibility, and standardized methodologies for developing and validating ML-based prognostic models reduces the quality of the available evidence and limits their implementation in clinical practice.

The Special Issue aims to collect original research articles and reviews that will provide updates and future perspectives regarding the application and implementation of ML to the risk stratification of patients suffering from cardiovascular disease.

### **Guest Editor**

Dr. Franca Dipaola

- 1. Internal Medicine, Humanitas Clinical and Research Center-IRCCS, Rozzano, 20089 Milan, Italy
- 2. Department of Biomedical Sciences, Humanitas University, Pieve Emanuele, 20090 Milan, Italy

### Deadline for manuscript submissions

closed (25 October 2023)



# Journal of Personalized Medicine

an Open Access Journal by MDPI

CiteScore 6.0
Indexed in PubMed



### mdpi.com/si/117857

Journal of Personalized Medicine Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 jpm@mdpi.com

mdpi.com/journal/ jpm





# Journal of Personalized Medicine

an Open Access Journal by MDPI

CiteScore 6.0
Indexed in PubMed



## About the Journal

## Message from the Editor-in-Chief

Journal of Personalized Medicine (JPM; ISSN 2075-4426) is an international, open access journal aimed at bringing all aspects of personalized medicine to one platform. JPM publishes cutting edge, innovative preclinical and translational scientific research and technologies related to personalized medicine (e.g., precision medicine, pharmacogenomics/proteomics, systems biology, 'omics association analysis). JPM is covered in Scopus, the Science Citation Index Expanded (SCIE), PubMed, PMC, Embase, and other databases.

### Editor-in-Chief

### Prof. Dr. Kenneth P.H. Pritzker

Department of Laboratory Medicine and Pathobiology, Department of Surgery, University of Toronto, 6 Queens Pk Crescent W.F, Toronto, ON M5S 3H2, Canada

### **Author Benefits**

## **High Visibility:**

indexed within Scopus, PubMed, PMC, Embase, and other databases.

### **Journal Rank:**

CiteScore - Q1 (Medicine (miscellaneous))

### **Rapid Publication:**

manuscripts are peer-reviewed and a first decision is provided to authors approximately 21.5 days after submission; acceptance to publication is undertaken in 3.5 days (median values for papers published in this journal in the first half of 2025).

