



## Cardiometabolic Biomarkers

Guest Editor:

**Prof. Dr. Massimiliano M. Corsi  
Romanelli**

Department of Biomedical  
Sciences for Health, University of  
Milan, 00133 Milan, Italy

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### Message from the Guest Editor

Cardiometabolic diseases can be present long before becoming clinically apparent. Accurate molecular predictors of disease are of particular importance since the delay or prevention of morbidity is possible via pharmacological and behavioral interventions. Metabolomics is increasingly applied to molecular biomarker discovery. Large epidemiological cohort studies can assess whether metabolite biomarkers improve upon existing disease markers. Furthermore, experimental work in model systems and integration with other functional genomic approaches will facilitate the discovery of causal links between select molecular biomarkers and disease pathogenesis.

Biomarkers can assist in the care of patients without apparent disease (screening biomarkers), with a suspected disease (diagnostic biomarkers), or with progression or remission of overt disease (prognostic biomarkers). Biomarkers that participate in molecular disease pathways are the most likely candidates for disease surrogates—substitutes for a clinical endpoint.





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### Prof. Dr. José L. Quiles

Department of Physiology,  
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University of Granada, Avda.  
Conocimiento s/n, 18100 Armilla,  
Granada, Spain

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*International Journal of Molecular  
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MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

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