

## Special Issue

# Athlete's Heart: From Cellular-Molecular Mechanism to Structural Anomalies

### Message from the Guest Editors

Physical activity plays an important role in the prevention of cardiovascular diseases, which represent the leading cause of death worldwide. Exercises have effects on mitochondria, sarcoplasmic reticulum, nuclear envelope, and plasma membrane of cardiac myocytes. Extreme exercise may cause physiological changes that are usually found in athletes and are known as “athlete’s heart”, which can be difficult to distinguish from pathological changes causing sudden cardiac death. Athletes’ metabolism presents differences regarding glucose, lipids, proteins, iron, vitamins, and micro and macronutrients compared with that of normal people. Moreover, 20-60% of athletes suffer from stress caused by excessive exercise. This Special Issue is supervised by and , and assisted by Dr. Silviu Stanciu (University Central Military Hospital Bucharest). The main aim of this Special Issue is to observe the perturbations that appear in athletes’ hearts from a cellular to a clinical point of view and provide new insights into the underlying molecular mechanisms. Original research articles and review papers are welcome.

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### Deadline for manuscript submissions

closed (15 July 2024)



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