

Special Issue

Heat Transfer in Biomedical Applications

Message from the Guest Editors

Heat transfer is of fundamental importance in many biomedical applications. For example, thermal excursions are used to selectively preserve or destroy cells and tissues, such as in biopreservation, which is an innovative technology, applied to cell and tissue banking, cell therapeutics, tissue engineering, organ transplantation, and assisted reproductive technologies. The aim of this Special Issue is to collect original research articles on the most recent analytical, numerical, and experimental results in this field, with the purpose of providing guidelines for future research directions. Potential topics include, but are not limited to:

- Cryobiology and hyperthermic biology;
- Thermal therapies;
- Heat transfer in clinical dentistry;
- Heat transfer in ophthalmology;
- Numerical and analytical investigations of heat transfer in living tissues;
- Employment of nanoparticles for targeted heating and in bio heat transfer enhancement;
- Thermal management in the implantable medical devices.

Guest Editors

Prof. Dr. Assunta Andreozzi

Dr. Marcello Iasiello

Dr. Victoria Timchenko

Prof. Dr. Kambiz Vafai

Deadline for manuscript submissions

closed (31 December 2021)



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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
processes@mdpi.com

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Editor-in-Chief

Prof. Dr. Giancarlo Cravotto

Department of Drug Science and Technology, University of Turin, Via P. Giuria 9, 10125 Turin, Italy

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