Special Issue

Novel Approaches for Diabetes

Message from the Guest Editor

The research in the field of diabetes has made tremendous progress over the last century. However, this coincided with a major worldwide change in the lifestyle of human society, which has outpaced the research, resulting in increasing rates of diabetes since mid-1980s. There are many factors that contribute to the development of this family of diseases, the main three being insulin resistance, loss of glucose sensing by pancreatic islets, and loss of islets themselves due to autoimmunity. Understanding of detailed mechanisms of the diabetes pathophysiology frequently depends on the advances in the research technology and novel approaches.

The Special Issue “Novel Approaches for Diabetes” welcomes original research and technological developments related to pancreatic hormone secretion, glucose homeostasis, or energy metabolism. The essential criterion is the presence of a non-medical and non-biological component, such as microfluidics, spectroscopy, analytical chemistry, data science, or mathematical modeling. We particularly welcome works from scientists whose main area of expertise lies outside of the diabetes field.

Guest Editor

Dr. Andrei Tarasov

Radcliffe Department of Medicine, University of Oxford, Oxford OX3 7LE, UK

Deadline for manuscript submissions

closed (30 November 2020)

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/36341

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

mdpi.com/journal/applsci

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/journal/applsci

MDPI

About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)