



## Fate of Pancreatic Islets in Type 2 Diabetes

Guest Editors:

**Dr. Shunichiro Asahara**

Division of Diabetes and  
Endocrinology, Department of  
Internal Medicine, Kobe  
University Graduate School of  
Medicine, Kobe 650-0017, Japan

**Dr. Katsuya Tanabe**

Division of Endocrinology,  
Metabolism, Hematological  
Sciences and Therapeutics,  
Yamaguchi University Graduate  
School of Medicine, 1-1-1  
Minamikogushi, Ube, Yamaguchi  
755-8505, Japan

### Message from the Guest Editors

In the development of type 2 diabetes, the function and volume of pancreatic  $\beta$ -cells has been known as important factors. In particular, pancreatic  $\beta$ -cell mass is regulated by various factors. Recent studies revealed that dedifferentiation is associated with the regulation of pancreatic  $\beta$ -cell mass in addition to proliferation and apoptosis. This Special Issue of IJMS is focused on the molecular mechanisms of pancreatic  $\beta$ -cell fate, and aims to discuss underlying the mechanisms and downstream pathways involved in the pathogenesis of pancreatic  $\beta$ -cell failure. We welcome unique and creative basic research on the mechanisms of proliferation, apoptosis, transdifferentiation, neogenesis, and dedifferentiation of pancreatic  $\beta$ -cells. We look forward to your contributions.

Deadline for manuscript  
submissions:

**closed (25 September 2022)**





an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Maurizio Battino

Department of  
Odontostomatologic and  
Specialized Clinical Sciences,  
Sez-Biochimica, Faculty of  
Medicine, Università Politecnica  
delle Marche, Via Ranieri 65,  
60100 Ancona, Italy

## Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

## 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), PubMed, PMC, MEDLINE, Embase, CAPlus / SciFinder, and other databases.

**Journal Rank:** JCR - Q1 (*Biochemistry & Molecular Biology*) / CiteScore - Q1 (*Inorganic Chemistry*)

## Contact Us

*International Journal of Molecular  
Sciences* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
www.mdpi.com

mdpi.com/journal/ijms  
ijms@mdpi.com  
X@IJMS\_MDPI