



## Environmental Determinants and Their Impact on Human Reproduction and Reproductive Immunology

Guest Editors:

**Dr. Gulfam Ahmad**

1. Redox Biology Group, Charles Perkins Centre, Faculty of Medicine and Health, School of Medical Sciences, The University of Sydney, Sydney, NSW 2006, Australia

2. Andrology Department, Royal Women's and Children's Pathology, Carlton, VIC 3053, Australia

**Prof. Dr. Paul K. Witting**

Discipline of Pathology, The University of Sydney, Sydney, NSW 2006, Australia

Deadline for manuscript submissions:

**closed (15 June 2023)**

### Message from the Guest Editors

Dear Colleagues,

Over the years, there has been a significant rise in the industrialisation and use of synthetic chemical products, causing a daily exposure to hazardous compounds at home and the workplace, with some compounds acting as endocrine-disrupting chemicals (EDCs) known to adversely affect the endocrine system and leading to compromised hormonal functions resulting in developmental anomalies in the reproductive tract and sub/infertility. In assisted reproductive technology, every step in the early embryo development involves the use of a range of plastics and environmental fluctuations crucial for epigenetic reprogramming in the early embryo, defining the landscape for life. Therefore, there is a dire need to understand the molecular mechanisms through which environmental determinants cause reproductive dysfunction. This Special Issue calls for papers addressing the impact of environmental determinants on cellular/molecular mechanisms and the underlying pathways implicated in reproductive disorders and infertility.





an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. José L. Quiles

Department of Physiology,  
Institute of Nutrition and Food  
Technology “Jose Mataix”,  
Biomedical Research Center,  
University of Granada, Avda.  
Conocimiento s/n, 18100 Armilla,  
Granada, Spain

## Message from the Editor-in-Chief

The *International Journal of Molecular Sciences (IJMS)* 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, and molecular biophysics. *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 and Molecular Biology) / CiteScore - Q1 (Organic Chemistry)

## Contact Us

---

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

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

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