

## Special Issue

# Immunological Nudging – Maintaining Vigilance and Reactivity

### Message from the Guest Editor

Immunology is regulated with regulatory systems that are fine-tuned in a constant homeostasis. The prerequisite of the ability to react immediately as needed in this system of defense is a constant availability of regulative mechanisms turning on and off in interaction with each other. Swift effective response requires anticipation. Only by constant availability of all components necessary for effective functionality of each regulatory unit is a swift immunological response in full coordination with all regulatory units possible. It is suggested to introduce the term immunological nudging, for the constant subclinical external stimuli that keep all components of the system in good functional condition and reactive capacity. Due to the constant soft push on the activation of autoregulatory mechanisms, such immunological nudging guarantees the availability of immediate immunological response ability by constantly, usually subclinically, activating and silencing each regulatory unit. It is suggested that the constant activation and deactivation of major regulatory circuits in perfect harmony maintains the readiness to immediate immunological reaction.

---

### Guest Editor

Prof. Dr. Gysbert-Botho van Setten  
Department of Clinical Neuroscience, St. Eriks Eye Hospital,  
Karolinska Institutet, 11282 Stockholm, Sweden

---

### Deadline for manuscript submissions

closed (31 December 2021)



## International Journal of Molecular Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.9  
CiteScore 9.0  
Indexed in PubMed



[mdpi.com/si/54441](https://mdpi.com/si/54441)

*International Journal of  
Molecular Sciences*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[ijms@mdpi.com](mailto:ijms@mdpi.com)

[mdpi.com/journal/  
ijms](https://mdpi.com/journal/ijms)





# International Journal of Molecular Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.9  
CiteScore 9.0  
Indexed in PubMed



[mdpi.com/journal/  
ijms](https://mdpi.com/journal/ijms)



## About the Journal

### 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.

---

### 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

---

### 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, CAPus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q1 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Organic Chemistry)