

## Special Issue

# Aryl Hydrocarbon Receptor in Biology and Toxicology 2.0

### Message from the Guest Editor

The aryl hydrocarbon receptor (AHR) is a ligand-activated transcription factor that translocates to the nucleus and initiates the transcription of many target genes upon binding of the relevant ligands. AHR is of increasing interest in many areas of biology and medicine. Its rather chemical name results from its first characterized function in xenobiotic metabolism and the AHR-dependent toxicity of various aryls, especially dioxins and dioxin-like compounds. In recent years, many endogenous and dietary ligands have been identified, though still a far cry from the multitude of environmental pollutants. Moreover, in humans, evolution seems to have shaped differential AHR responses that correspond to certain ligand classes. In this Special Issue of *IJMS*, we wish to offer a platform for high-quality publications on these various aspects of AHR research. Bringing together the different aspects into one issue will hopefully trigger synergy and also be of interest for non-AHR researchers.

### Guest Editor

Prof. Dr. Charlotte Esser

IUF – Leibniz Research Institute for Environmental Medicine, Auf'm Hennekamp 50, D-40225 Düsseldorf, Germany

### Deadline for manuscript submissions

closed (31 July 2020)



## International Journal of Molecular Sciences

an Open Access Journal  
by MDPI

Impact Factor 4.9  
CiteScore 9.0  
Indexed in PubMed



[mdpi.com/si/29730](https://mdpi.com/si/29730)

*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*, 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.

---

### 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

---

### 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)