

## Special Issue

# The Molecular Mechanism of Dementia and Age-Related Comorbidity

### Message from the Guest Editor

This Special Issue aims to develop our understanding of the transition of middle-life processes from normal aging to disease. Recent studies on the human genome, including on genome-wide association studies (GWAS), have identified the metabolism and diabetes genes that are risk indicators of dementia. These represent the comorbidities of multiple diseases that are associated with dementia. A goal of those studies is to apply to direct-to-consumer (DTC) genomics in which we could predict the risk of each disease by looking at the genetic data. However, how the genes mediate the transition of middle-life to late-life problems such as dementia has yet to be adequately explored. This Special Issue emphasizes but is not limited to the involvement or association of metabolism and diabetes with dementia, including neurodegenerative diseases such as Alzheimer's disease. Particularly, model systems will be useful to understand the mechanisms in humans. We would like to invite a collection of heritable knowledge toward the middle-life crisis theory of aging, which explains the transition from young to old.

---

### Guest Editor

Prof. Dr. Shin Murakami

Department of Basic Sciences, College of Osteopathic Medicine, Touro University California, Vallejo, CA, USA

---

### Deadline for manuscript submissions

closed (15 September 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/52905](https://mdpi.com/si/52905)

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

[ijms](https://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)