

## Special Issue

# Molecular, Cellular and Systemic Signature of Microglia 2.0

### Message from the Guest Editors

How do microglia, the innate immune cells of the central nervous system, shape the structure and function of the central nervous system? What happens when the neural environment changes due to an injury or microbial neuroinvasion? How do microglia communicate with astrocytes and neurons? Since the state of microglia is vital for the health of neural cells, answers to these questions are indispensable for understanding the (patho)physiology of the brain. The structural phenotype of microglia reflects their functional state. The ramified phenotype, surveilling its environment in the healthy brain, transforms upon rupture of capillaries or microbial neuroinvasion into an amoeboid phagocyte, boosting the clearance of cell debris. While pruning of a surplus of synapses by microglia is physiological in early development, it may become pathophysiological in the adult brain, thus driving neurodegeneration. This special issue is open to state-of-the-art reviews and original research from all biomedical fields.

### Guest Editors

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### Deadline for manuscript submissions

closed (28 February 2022)



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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.

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### Editor-in-Chief

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