

# Special Issue

## Lipids and Brain Aging

### Message from the Guest Editor

The aim of this Special Issue is to explore lipid-related molecular mechanisms involved in brain aging in health and disease. Indeed, lipids play many roles in the central nervous system, as membrane structural components, in cell signaling and gene expression regulation. Glia were originally considered to be a support system providing lipids and other nutrients to neurons. Now, recent data point to the importance of glia-neuron communication for the functional integrity of the tripartite synapse composed of pre- and postsynaptic membranes and glia. Lipid homeostasis, ensuring a balance between glia-neuron lipid influx and efflux, is a critical determinant of neuron function and synaptic plasticity. The tight regulation of lipid homeostasis involves a system of enzymes, transporters, receptors, and transcription factors involved in lipid metabolism and trafficking between glia and neurons. Original articles or focused reviews addressing these topics will be considered for publication.

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### Guest Editor

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### Deadline for manuscript submissions

closed (30 June 2022)



# International Journal of Molecular Sciences

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