

## Special Issue

# Oxidative Stress in Neurodegenerative Diseases: Amyloid, Extracellular Vesicles and Biomarkers

### Message from the Guest Editors

This Special Issue will cover some emerging role of oxidative stress on neurodegenerative diseases including Alzheimer's and Parkinson's diseases. It will focus on the role of redox chemistry on the amyloidogenic pathway, on tau hyperphosphorylation and on their propagation by extracellular vesicles. Finally, recent research on biomarkers based on oxidative markers and antioxidant strategies will be discussed. Topics include, but are not limited to:

- Reactive oxygen species: chemical basis, ROS production in brain, link with neurodegenerative diseases;
- Amyloid peptides and their roles in diseases (Alzheimer's disease, Parkinson's disease, mild cognitive impairment, etc.): detection, interactions with other molecules, oxidation, metal coordination, ROS production;
- Tau phosphorylation and extracellular vesicles;
- Biomarkers of oxidative stress in Alzheimer's disease: AGE, lipid and protein oxidation;
- Antioxidant strategies.

### Guest Editors

Prof. Dr. Charles Ramassamy  
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### Deadline for manuscript submissions

closed (31 August 2019)



## International Journal of Molecular Sciences

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Impact Factor 4.9  
CiteScore 9.0  
Indexed in PubMed



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*International Journal of  
Molecular Sciences*  
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### 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.

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### Editor-in-Chief

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