

## Special Issue

# The Role of Norepinephrine in Neuroprotection

### Message from the Guest Editors

I am pleased to announce this Special Issue entitled "The Role of Norepinephrine in Neuroprotection". Most of brain norepinephrine (NE) is produced by neurons belonging to the locus coeruleus (LC), which send their efferents to the whole cortical mantle and to several subcortical structures. LC is degenerated early and significantly in several neurodegenerative disorders, and especially in Parkinson's and Alzheimer's disease. Thus, NE released by LC may play a critical role in the physiopathology of the neuronal degeneration occurring in these diseases. Several studies in the last few decades have shown a neuroprotective effect of NE on the neuronal damage induced by different neurotoxins. This has been evaluated by several authors in vivo, after administration in different animal species of the neurotoxins specific to dopaminergic nigrostriatal neurons and, more recently, also in vitro. Old studies proposed a key role of the release of growth factors on the neuroprotective effects of NE, whilst more recent studies are disclosing further potential mechanisms.

### Guest Editors

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### Deadline for manuscript submissions

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## International Journal of Molecular Sciences

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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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