Special Issue

Locus Coeruleus Function and Vulnerability in Neurodegenerative Conditions: Evidence from Animal Model and Human Imaging Studies

Message from the Guest Editors

You are cordially invited to contribute to a Special Issue summarizing the materials of the 3rd Locus Coeruleus Meeting (2024) to be held in Innsbruck 9–11 September, 2024. The Special Issue will focus on the locus coeruleus (LC), a core nucleus of the brain noradrenergic system. The scope of this Special Issue encompasses basic and applied, human and animal, empirical and theoretical research. It aims to elucidate the developmental origin of the LC neuron diversity, reasons for vulnerability of the LC in neurodegeneration, provide an overview of cognitive and physiological functions linked with the LC and how these change in aging and neurodegeneration, and will discuss methods for mapping brainstem nuclei precisely in in vivo data. The contributions on the following topics are welcome:

- How do subcortical structures contribute to sleep;
- What makes the LC vulnerable to neurodegeneration;
- What contributes to LC MRI contrasts;
- Altered and altering LC function in aging and neurodegeneration;
- Cognitive functions supported by the LC and changes in aging;
- Brainstem mapping.

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Deadline for manuscript submissions

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You are invited to contribute a research article or a comprehensive review for consideration and publication in *Brain Sciences* (ISSN 2076-3425). *Brain Sciences* is an open access, peer-reviewed scientific journal that publishes original articles, critical reviews, research notes, and short communications on neuroscience. The scientific community and the general public can access the content free of charge as soon as it is published.

Editor-in-Chief

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