

Special Issue

The Prefrontal Cortex in Cognition and Diseases

Message from the Guest Editor

Considering the pivotal role of the PFC in orchestrating higher-order cognitive functions and its multifaceted involvement in neuropsychiatric disorders, neurodevelopmental trajectories, and aging processes, comprehensively elucidating its underlying neurobiological mechanisms is imperative. Investigations in this domain advance our shared mechanistic understanding of brain function and hold substantial clinical promise for enhancing diagnostic precision, optimizing preventive measures, refining therapeutic approaches, and improving prognostic assessments of associated neuropathologies.

It will focus on the following thematic areas in particular:

1. Multi-level neural mechanisms of prefrontal cognitive functions;
2. Pathophysiology of PFC dysfunction in neuropsychiatric disorders;
3. Developmental plasticity of the PFC and its impact on cognition and behavior;
4. Age-related changes and mechanisms of PFC degeneration;
5. Neural modulation and intervention strategies targeting prefrontal cognitive dysfunction;
6. Translational and interdisciplinary approaches in PFC research.

Guest Editor

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Message from the Editor-in-Chief

Biomedicines (ISSN 2227-9059) is an open access journal devoted to all aspects of research on human health and disease, the discovery and characterization of new therapeutic targets, therapeutic strategies, and research of naturally driven biomedicines, pharmaceuticals, and biopharmaceutical products. Topics include pathogenesis mechanisms of diseases, translational medical research, biomaterial in biomedical research, natural bioactive molecules, biologics, vaccines, gene therapies, cell-based therapies, targeted specific antibodies, recombinant therapeutic proteins, nanobiotechnology driven products, targeted therapy, bioimaging, biosensors, biomarkers, and biosimilars. The journal is open for publication of studies conducted at the basic science and preclinical research levels. We invite you to consider submitting your work to *Biomedicines*, be it original research, review articles, or developing Special Issues of current key topics.

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