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Dopamine and Serotonin Receptors: Selective or Multitarget Ligands for the Treatment of Central Nervous System Diseases

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Deadline for manuscript submissions:

closed (25 March 2025)

Message from the Guest Editors

Dear Colleagues,

Dopamine and serotonin neurotransmitter pathways play important roles in regulating several physiological functions in the central nervous system and are altered in numerous diseases, including psychiatric and neurodegenerative disorders. An efficacious treatment strategy involves the discovery and development of ligands selectively targeting dopamine or serotonin receptor subtypes, with limited side effects (“magic bullets”).

However, the multitarget or “magic shotgun” approach, combining dopamine and serotonin receptor systems, might produce improved results in the treatment of polyfactorial pathologies. Indeed, with respect to combined therapies, multitarget drugs may offer clear advantages, including reduced risk of drug interactions, more predictive pharmacokinetics, and better patient compliance.

We invited you to submit original or review articles dealing with the discovery and/or development of subtype selective or multitarget ligands targeting dopamine and/or serotonin receptors potentially useful for the treatment of central nervous system diseases.

Dr. Fabio Del Bello
Dr. Wilma Quaglia
Guest Editors



mdpi.com/si/180896

Special Issue



an Open Access Journal by MDPI

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