

Special Issue

Blood–Brain–Barrier– Penetrating Therapeutics Targeting Intrinsically Disordered Proteins in Neurodegenerative Diseases

Message from the Guest Editor

Intrinsically disordered proteins (IDPs) hold tremendous potential for therapeutic interventions of neurodegenerative diseases. There is a need to call for the use of novel strategies and approaches to advance the development of IDP-targeting therapeutics. The molecular mechanisms of action of typical drug-like candidates include (i) shifting IDP conformational ensembles, (ii) the disassembly of intermediate toxic oligomeric species, and (iii) the inhibition of protein–protein interactions and distortions of IDP functional complexes. Importantly, the highly restrictive nature of the blood–brain barrier (BBB) represents a major hurdle to advance brain-targeting drugs, which necessitates the development of new therapeutics with BBB-penetrating capability. We invite authors to submit original articles and review articles highlighting the latest developments of BBB-penetrating therapeutics targeting IDPs in neurodegenerative diseases.

Guest Editor

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Editor-in-Chief

Prof. Dr. Amélia Pilar Rauter

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