

Special Issue

The bHLH Transcription Factors Intrinsic Disorder and Disease

Message from the Guest Editor

The bHLH (basic Helix-Loop-Helix) proteins are highly differentiated family of transcription factors (TFs) present in all eukaryotes: from yeasts and fungi to plants and metazoans. bHLH TFs play a central role in cell proliferation, determination, and differentiation. Recent findings indicate the importance of intrinsically disordered regions (IDRs) mediating liquid-liquid phase separation (LLPS) for the regulation of transcription. Importantly, bHLH TFs were linked to serious human diseases, like neurodegeneration or cancerogenesis. The Special Issue, "The bHLH Transcription Factors Intrinsic Disorder and Disease", aims to present current knowledge and questions concerning the role of IDRs and LLPS in the functioning of bHLH family in the context of pathophysiology, leading to different kind of serious disorders. Also, discussion of new therapeutic strategies based on the bHLH IDRs ability to drive LLPS is expected. Experimental and theoretical papers, up-to-date review articles, and commentaries are welcome.

Guest Editor

Dr. Beata Greb-Markiewicz

Department of Biochemistry, Molecular Biology and Biotechnology,
Faculty of Chemistry, Wrocław University of Science and Technology,
Wybrzeże Wyspiańskiego 27, 50-370 Wrocław, Poland

Deadline for manuscript submissions

closed (31 July 2024)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/191976

*International Journal of
Molecular Sciences*
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MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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