



## The bHLH Transcription Factors Intrinsic Disorder and Disease

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### Message from the Guest Editor

Dear Colleagues,

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.





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