



Metals in Neurodegenerative Diseases

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Message from the Guest Editor

Dear Colleagues,

The human brain is perhaps the most complex organ in existence. As a direct consequence of high nutrient input, the brain is rich in essential elements (particularly Fe, Cu, and Zn), with concentrations in some regions of the brain equalling or exceeding those found in the liver. Alarming, during neurodegeneration, the balance of essential trace elements and the metalloenzymes that use them is disrupted. Although the measurement of total essential element abundances is important, it only yields a fraction of the story. Currently, our understanding of the relationships between changes in trace elements and the function of their related metalloproteins is limited. In this Special Issue, we highlight the most current discoveries in this area: (1) The consequences of metal mis-incorporation and absence to proper protein structure and function, (2) The recent advances made in speciation techniques and their application to direct measurement of metalloenzymes, and (3) New therapeutic strategies aimed at targeting metal dyshomeostasis.

Prof. Dr. Blaine Roberts
Guest Editor





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Message from the Editor-in-Chief

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