

Dipartimento di Biotecnologie e Bioscienze – UNIMIB

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Omics and targeted approaches to investigate mitochondrial alterations in neurological disorders

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Abstract: At neuronal level, mitochondria (mt) are involved in several molecular processes, including neurogenesis, neuronal survival, synaptic transmission and plasticity. Therefore, neuronal cells critically depend on mt functions to fulfill and maintain their physiological activity. Given their fundamental role in supporting neuronal functions, it is not surprising that countless studies have linked mt damage with the onset/progression of neurological disorders. In this seminar, I will present how omics approaches - coupled with more targeted techniques - can be used to discover new mt molecular pathways linked to disease etiology, with a particular emphasis on Parkinson's and bipolar disorders.

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