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Alpha-Synuclein Pathology in Human Diseases

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Deadline for manuscript submissions:
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Message from the Guest Editors

Dear Colleagues,

Alpha-synuclein insoluble protein aggregates are the key neuropathological characteristics of several neurodegenerative disorders. The protein is known as the main component of Lewy bodies (LB), intra-neuronal/parenchymal inclusions found in the post-mortem brains of patients affected by Parkinson's disease (PD), LB dementia (DLB), or the LB variant of Alzheimer's disease (LBVAD) as well as of glial cytoplasmic inclusions (GCI), which are instead oligodendrocyte inclusions typical of multiple system atrophy (MSA). Neurodegeneration with brain iron accumulation (NBIA) and pure autonomic failure (PAF) are other disorders characterized by central and peripheral alpha-synuclein pathological deposits. The gradual spreading and diffusion of alpha-synuclein pathological aggregates in and between the central and peripheral nervous system underlie the progression of disease symptoms in several of the above-cited disorders. This Special Issue aims at providing an overview on the impact of alpha-synuclein pathology deposition and spreading on neurodegenerative disorders.

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