Special Issue

Unraveling the Molecular Pathways of Alzheimer's Disease

Message from the Guest Editor

Early diagnosis of Alzheimer's disease (AD) and the discovery of therapies to halt or significantly slow the course of the disease are daunting challenges facing our society. A deeper understanding of the molecular basis underlying the anatomopathological and clinical changes characteristic of AD would allow us to change the paradigm and identify promising therapeutic targets for these patients. Examples of molecular pathways currently under active investigation would be age-related defects in autophagy capacity or oxidative stress conditioned by external stimuli, such as pollution or diet. Additional hypotheses would include changes in inflammatory molecules related to innate or adaptive immunity and a number of alterations in the molecular processes that influence adult neurogenesis. All the above must be considered without forgetting the molecular machinery that epigenetic mechanisms use to combine environment and genetic susceptibility in developing AD. All these processes and others have a molecular translation that needs to be elucidated in order to better understand the disease and seek therapeutic alternatives for AD.

Guest Editor

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Message from the Editor-in-Chief

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