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Glycoconjugate metabolism: A common player for different brain disorders

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Our data shows that defects in metabolism/pathways of glycoconjugates, including glycosphingolipids are common to different brain disorders including neurodevelopmental and neurodegenerative diseases and may contribute to their complex pathogenesis. Here, we discuss such evidence and the hypothesis that modulation of metabolism of glycoconjugates and their related signalling pathways may represent a potential therapeutic approach for those devastating conditions. The plausible "druggability" of glycoconjugate pathways has huge therapeutic potential, as a number of molecules that selectively target them are available. A clear comprehension of "glycoconjugate scenario" in brain disorders would enhance therapeutic perspectives for the diseases, by taking advantage from the already available molecules and by promoting the development of new ones.

Biography

Vittorio Maglione has completed his PhD in Neurobiology from University of Catania (Italy) and postdoctoral studies first from Neurological Institute "IRCCS Neuromed" (Italy) and successively from University of Alberta (Canada). After which he was awarded a Marie Curie Fellowship, he became Group Leader at Centre for Neurogenetics and Rare Diseases of IRCCS Neuromed. He has published more than 35 scientific papers and serves as Editorial Board Member for different journals.

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