

Metabolismo, Sistemas Modelo y Terapias para la ELA.

Tercer Encuentro Internacional de Investigación en ELA en España

Metabolism, Model Systems and Therapies for ALS.

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BIO

Hélène Blasco

Hélène Blasco holds a PhD in Pharmacy by the University of Tours and a PhD in Science by the University of Paul Sabatier. Currently, she is professor and practitioner in the Laboratory of Biochemistry and Molecular Biology and the INSERM U1253 (CHU and University of Tours). She is specifically working on Amyotrophic Lateral Sclerosis (ALS), a neurodegenerative disease characterized by degeneration of motor neurons that leads to a progressive muscular paralysis. ALS diagnosis is mostly based on clinical criteria that lack the precision to establish a rapid diagnosis. Thus, her research activity is focused on the development of biomarkers, the understanding the aetiology of the disease and the identification of new neuroprotective agents. She has particularly used metabolomics and lipidomics approach to highlight diagnosis and prognosis biomarkers in ALS patients and animal models, and to improve the knowledge of pathophysiological ways in cell models. More recently, in her laboratory, they are developing a therapeutic approach based on intrabodies to target protein aggregates. Thus their current project is mainly to develop biopharmaceuticals in ALS and to use pharmacometabolomics to assist this development.