Pathophysiology of chronic inflammatory demyelinating polyneuropathies (CIDP): from patients' deep immunophenotyping to preclinical testing. Toward the identification of new therapeutic target

Chronic Inflammatory Demyelinating Polyradiculoneuropathy (CIDP) is a result of damages to peripheral nerves induced by immune cells. Our first objective is to identify the immune cells responsible for disease development. Our second objective is to define the nerves proteins targeted by the antibodies present in CIDP patients. Our third objective is to combine immunological and antibody data sets in order to uncover biological features correlating with particular clinical presentation and/or response to treatment. In our fourth objective, we will test whether drugs efficient in treating multiple sclerosis, a disease of central nervous system, would be effective in CIDP. This project will pave the way for the development of innovative targeted therapies expected to be more effective than those currently proposed.