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Paola Cavalcante is a senior researcher at the Fondazione Istituto Neurologico Carlo Besta in Milan (Italy), where she has been working since 2006. She holds a PhD in Molecular Bio-pathology and is an expert in the field of neuroimmunology, with a specific focus on myasthenia gravis (MG). She leads a team investigating the immunopathogenesis of MG, with particular attention to the role of innate immunity and microRNAs in immune dysregulation. Currently, P. Cavalcante coordinates an EU - Next Generation EU-funded project, 'MG-RNATHER' (PNRR-MCNT2-2023-12377231), aimed at developing advanced microRNA-based therapies to modulate T and B cell function and counteract autoimmunity in MG. Additionally, she is the coordinator of the ERAPERMED European project 'MG-PerMed' (ERAPERMED2022-258), which aims to promote implementation of biomarker-based, AI-guided personalized medicine approaches in MG clinical practice.