

A research fellow position is immediately available to work in Dr. Simone Bido's Team at the Division of Neuroscience on the project "Decoding the molecular basis of the interplay between neuroinflammation and neurodegeneration in Parkinson's disease". The candidate will join a dynamic and enthusiastic team engaged in unveiling novel molecular and cellular pathways controlling the dynamic interaction between the immune and neuronal systems during neurodegeneration.

Position description: Applications are invited for a research fellow position to unravel inflammatory mechanisms in Parkinson's disease and setting innovative gene-based approaches to limit their contribution in neurodegeneration.

In particular, the project investigates the role of the inflammation in the development of Parkinson's disease and the successful candidate will focus on investigating the mechanisms by which alpha-synuclein accumulation within the different cell type can contribute to the pathophysiology of the disease. Most importantly, the candidate will help in the design disease-modifying approaches by the use of viral vector deliverable gene therapy in order to counteract the contribution of the inflammation in the disease onset. The different approaches will be tested in different animal models of inflammation-driven Parkinson's disease developed in the laboratory. The project will be carried out in a multi-disciplinary environment at the crossroad between genomics, advanced imaging, in vivo modelling, and functional gene-based therapy. The researcher will actively support the supervision of an undergraduate students.

The position is immediately available and is funded by a 3-year grant by "Fondazione Regionale per la Ricerca Biomedica" (FRRB). Salary will be commensurate to the experience and seniority of the candidate.

Eligibility: A PhD in in the fields of Neuroscience/Cell Biology/Neuroimmunology with background in molecular biology, neuroscience and/or immunology are ideal. Experience with in vivo models is a plus.

To apply: Please submit a letter of interest, detailed CV and at least one reference contact to bido.simone@hsr.it

More information about the research team can be found on the [Vania Broccoli Lab website](#).