Call for applications for the award of No. 1 post-doc research contract pursuant to Article 22-bis of Law No. 240/2010, Scientific Disciplinary Group 05/BIOS-06 - Physiology, Scientific Disciplinary Sector BIOS-06/A - Physiology, at the Research Unit in Molecular Neuroscience and the Departmental Faculty of Medicine, Surgery and Dentistry of Università Campus Bio-Medico of Rome.

Competition code: IPD/02_26

Departmental Faculty/Research Unit of affiliation	Medicine, Surgery and Dentistry/ RU in Molecular Neuroscience
Place where the activities will be carried out	U.C.B.M.
Contract duration (at least one year)	1 year
Scientific Disciplinary Group	05/BIOS-06 - Physiology
Scientific Disciplinary Sector	BIOS-06/A - Physiology
Subject of the contract	Impact of dopaminergic alterations on the hypothalamic-pituitary-adrenal axis in translational Alzheimer's disease models.
Brief description of the research program to which the position is linked	The project investigates how early alterations of the dopaminergic system in Alzheimer's disease can influence the hypothalamic-pituitary-adrenal axis, leading to chronic peripheral inflammation. Using translational murine models, the research will combine retrograde tracing techniques with histological and molecular biology analyses. The three main objectives are: 1) to determine the neuronal circuit connecting the ventral tegmental area to the paraventricular nucleus of the hypothalamus; 2) to evaluate the impact of dopaminergic depletion on hypothalamic neurons; and 3) to verify whether and how this chronic deficit can induce peripheral inflammation. The expected outcome is the definition of a circuit and mechanistic framework linking mesencephalic dopaminergic neurodegeneration to the systemic inflammation typical of Alzheimer's Disease.
Teaching and third mission activities in which the postdoctoral fellow is required to collaborate	The postdoctoral researcher will be expected to contribute to teaching and training activities in the fields of neuroscience, the neurobiology of Alzheimer's disease, and the experimental methodologies employed in the project, with particular

	emphasis on histological techniques, molecular biology, and neuronal circuit tracing. The researcher may also contribute to the supervision and mentoring of students, undergraduate trainees, and interns involved in laboratory activities. In addition, the researcher teaches Physiology in the Bachelor's Degree Programme in Nursing. As part of third mission activities, the postdoctoral researcher may participate in scientific outreach and dissemination initiatives aimed at both the scientific community and the general public, contributing to the dissemination of knowledge on the neurobiological and neuroinflammatory mechanisms associated with Alzheimer's disease and to raising awareness of the importance of research in the field of neurodegenerative disorders.
Any additional qualifications subject to evaluation	Teaching activities in the field of Physiology; FELASA certificate for animal experimentation.
Research Supervisor	Prof. Marcello D'Amelio
Maximum number of publications	8
Language knowledge and skills	English
Date and time of the interview	**26th October 2026, at 5:00 p.m.** Remote candidates on Microsoft Teams platform