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Postdoctoral position available at the Department of Molecular Medicine and Medical Biotechnologies, University of Naples "Federico II"

Job description

“Role of (macro)autophagy in the regulation of turn-over, unconventional secretion and inter-neuronal spreading of neurodegenerative diseases-associated aggregation-prone proteins.”

We are seeking a highly motivated research scientist with previous training in cell biology and/or biochemistry for a postdoctoral position (24 months). The successful candidate will be enrolled on a funded research project aimed at identifying novel genes and signalling pathways regulating the interplay between mammalian autophagy and neurodegenerative diseases. More specifically, the project will require the use of up-to-date molecular and cellular biology techniques, such as confocal and live cell imaging, gene expression and mass spectrometry analyses, siRNA, shRNA and CRISPR/CAS9-based molecular manipulations of target gene expression, functional analyses in cell lines, patients-derived primary cells and ultimately in animal disease models, which will be deployed to analyse the contribution of the autophagolysosomal and unconventional secretion pathways to neurodegenerative diseases.

Desired skills and experience The successful candidate should have a PhD with a solid background in molecular biology, cell biology and/or biochemistry. Research experience in molecular biology (including molecular cloning, DNA, RNA and protein manipulations) as well as an extensive experience in cell biology and cell imaging techniques are required. Additional experience in isolation and culture of primary cells, mass spectrometry and bioinformatic analyses would be considered advantageous.

Interested applicants should submit a letter of application, CV and references (or informal enquiries) to:

Maurizio Renna, PhD (maurizio.renna@unina.it)