



Weill Cornell
Medicine



The Neurosurgery dept. at Weill Cornell Medicine is recruiting a postdoctoral researcher in neuroscience to work in the newly established research group of Dr. Roberta Marongiu, PhD, to study the role of sex and menopause on pathology spread from the gut to the brain in models of Parkinson's disease. This will primarily use models of menopause, Parkinson's disease, and viral vectors to identify at a single cell and network level the spread of the disease throughout the nervous system along with behavioral studies to correlate specific symptoms with circuit pathology.

The successful candidate will work directly with Dr. Marongiu, Assistant Professor of Neurological Surgery, and in collaboration with co-investigators at several institutions, including Weill Cornell Medicine, Cornell University, Johns Hopkins Medicine, and the Karolinska Institute.

This position is funded for three years, with possibility to extend upon funding. Salary and benefits for postdocs at Weill Cornell were recently adjusted to reflect the needs of the local market and to provide competitive compensation to outstanding candidates.

Post-doctoral Training

Dr. Roberta Marongiu is an award-winning new principal investigator with interest in understanding the role of sex dimorphism and menopause on neurodegenerative disorders like Parkinson's and Alzheimer's disease. The postdoc will be an essential member of an ambitious diverse group. Candidate will interact directly with Roberta and will be given significant responsibility and autonomy to establish their own systems and have a major impact in shaping the lab's culture and approach to science for the coming years.

This project will offer opportunities for research training and accomplishments using a wide range of technologies and methods, including: molecular and cell biology, viral vector production, surgical methods for targeting gene delivery in the brain and

periphery, sophisticated and complex behavioral assays including motor, cognitive and affective behaviors as well as assays of metabolism and other peripheral functions, imaging of neuronal function in live animals and advanced histological and microscopic assays for neuronal circuit function and gene expression.

Dr. Marongiu fosters a success driven environment, aiming to inspire a new generation of scientists. Throughout her career, she has mentored over 40 students and scientists including graduate and medical students, residents, postdocs, and research technicians, who moved on to very successful careers. This position will also offer the opportunity for professional development training such as career path preparation, grantsmanship workshops, networking events, public speaking at workshops, external meetings of funding organizations and at national neuroscience meetings.

The College

Weill Cornell Medical College is the medical and biomedical graduate arm of Cornell University. Located on the upper east side of Manhattan in New York city, Weill Cornell Medicine is within a complex of leading institutions, including the Rockefeller University and Memorial-Sloan Kettering Cancer Center, that provides a vibrant and very collaborative environment with virtually unmatched opportunities for research collaboration and excellence within immediate proximity.

Requirements:

The laboratory is seeking one postdoc for this fully funded position who is highly self-motivated, energetic, ambitious, and collegial. In addition:

- Candidate must possess a PhD or equivalent in neuroscience, behavioral neurobiology, molecular biology, neurogenetics or related field.
- Experience in small animal surgery and behavior and/or advanced microscopy and histological techniques would be a major advantage
- Experience in transcriptomics, metagenomics, and genetic data analysis would be beneficial
- Independent work ethic, and strong organizational, communication and writing skills are essential

Documents required

Interested candidates should send the following documents to rom2043@med.cornell.edu:

- a letter describing their relevant background and interest in this position
- a CV including bibliography
- contact information for at least two references

Additional info on Dr. Marongiu can be found at:

<https://vivo.weill.cornell.edu/display/cwid-rom2043>

<https://news.weill.cornell.edu/news/2021/10/9m-grant-funds-study-of-gut-brain-connection-in-parkinson%E2%80%99s-disease>

www.robertamarongiu.com

<https://weillcornellbrainandspine.org/research/roberta-marongiu>

<https://neurosurgery.weill.cornell.edu/about-us/news-updates/dr-marongiu-awarded-nih-nia-grant-study-menopause-effects-development>