



PostDoc position Preclinical and Translational MRI

EndoCARE:

preclinical functional MRI for the evaluation of pharmacotherapy in PTSD

Project

The EndoCARE project is a Eurostars funded consortium project starting February 2021 and headed by *Synendos*, a Swiss biopharmaceutical company that develops safe and effective therapies for neuropsychiatric diseases. In our project, we aim to develop a novel first-in-class drug for treatment of post-traumatic stress disorder (PTSD) by restoring the imbalance in physiological levels of endocannabinoid signaling in the brain.

In preparation of a full clinical program to evaluate the use of this new treatment strategy, the EndoCARE consortium will now first work on a translational preclinical package including **preclinical neuroimaging** and biomarker discovery. The Amsterdam UMC specifically will lead the development and execution of preclinical **functional magnetic resonance imaging (fMRI)** studies to evaluate the new PTSD treatment in a rat model of PTSD that reflects disrupted fear regulation and a dysfunctional endocannabinoid system.

The new PostDoc position is supervised by dr. Bram Coolen (BioMedical Engineering & Physics) & prof. Reneman (Radiology & Nuclear Medicine). The PostDoc will be responsible all aspects of the study, including setting up the preclinical fMRI protocol in collaboration with MRI physicist both from the vendor and Amsterdam UMC, performing all relevant experiments at the preclinical 7T MRI lab (BMEP) and taking the lead in analysis and interpretation of the study outcome. Furthermore, you will become part of the preclinical MRI team and contribute to supervision of PhDs and MSc students.

Profile

You have a PhD degree in biomedical sciences / neuroscience. **Experience with preclinical studies is a prerequisite.** Experience in preclinical MRI studies is preferred.

In general, you should have a strong interest in neuroscience and imaging and preferably have publications in this field. Furthermore, you are skilled in performing data acquisition, as well as data analysis and statistics. Finally, you are expected to be able to perform your research independently and show assertiveness in making decisions within the project. As you will be part of a large international team, excellent communication and social skills are considered of great importance.

Salary and benefits are in accordance with the Collective Labour Agreement for Dutch University Medical Centers. This job is based on a temporary position for **2 years**. In addition, we offer an annual benefit of 8.3%, holiday allowance and travel expenses

More information

If you have any questions about this vacancy, please contact

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<https://www.amc.nl/web/research-75/department/b.f.-coolen-meng-phd.htm>

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