

PhD / Postdoctoral Position in Neuroscience *Université de Montréal*

We are seeking a highly motivated **PhD student or Postdoctoral Fellow** to join an exciting collaborative project between the laboratories of **Dr. Antonio Nanci** and **Dr. Ravi Rungta** at the Université de Montréal.

The project will investigate the role of the oral pathogen ***Porphyromonas gingivalis*** in **Alzheimer's disease**, with a focus on how infection and associated factors contribute to neurovascular and neurodegenerative processes – and the impact of a novel antimicrobial peptide in preventing neurodegeneration associated with this pathogenic bacterium. The successful candidate will work at the interface of neuroscience, microbiology, and imaging to uncover novel mechanisms linking periodontal disease to brain pathology.

Approaches & Techniques

- **Advanced microscopy:** electron microscopy (EM), super-resolution, and in vivo optical imaging
- **Histology & immunohistochemistry**
- **In vivo models**
- **Computational analysis:** image analysis, quantitative morphometry, statistical modeling
- Multidisciplinary collaborations with neuroscientists and microbiologists

Qualifications

- Background in **Neuroscience, Neurobiology**, or a related field (experience with infection biology, neuroinflammation, or neurovascular physiology), would be an asset.
- Strong skills in **microscopy, imaging analysis**, and/or **histology**
- Experience with **computational / data / image analysis**
- Ability to work independently and as part of a multidisciplinary team
- Excellent written and oral communication skills.

Start date: ASAP

Location: Université de Montréal, Montréal, Canada

To apply, please send a single PDF including:

1. A cover letter outlining your research interests and relevant experience
2. Curriculum vitae
3. Contact information for two references

Applications should be sent to: Antonio.nanci@umontreal.ca and ravi.rungta@umontreal.ca
Applications will be reviewed on a rolling basis until the position is filled