Postdoctoral Positions Available in Tunneling Nanotube Research at the Pasteur Institute

Are you passionate about unraveling the mysteries of cell-to-cell communication and its role in neurodegenerative diseases? The Zurzolo Lab at the Pasteur Institute in Paris invites applications for three fully funded postdoctoral positions to embark on groundbreaking research in the field of Tunneling Nanotubes (TNTs).

About Us: Tunneling Nanotubes (TNTs) are membranous connections between distant cells, enabling the transfer of cellular materials, including amyloid proteins associated with neurodegenerative diseases such as Alzheimer's and Parkinson's. At Zurzolo's Lab, we are pioneering research to understand the formation, biophysical properties, and physiological relevance of TNTs. We are dedicated to unraveling the role of TNTs in the progression of neurodegenerative diseases and exploring their functions during development in mouse and zebrafish models.

What We Offer:

- **Cutting-Edge Research:** Engage in innovative research using interdisciplinary approaches, including biochemistry, cell/molecular biology, mathematics, machine learning, and advanced imaging techniques (high-throughput electron microscopy and light microscopy).
- **Holistic Approach:** Undertake a comprehensive study employing different cell cultures, ex vivo tissue cultures, mouse brains, and zebrafish models to demonstrate the existence of TNTs in vivo, identify specific TNT pathways, and analyze their involvement in neurodegenerative diseases.
- **Outstanding Environment:** Join a vibrant, intellectually stimulating research group in Paris at the Pasteur Institute equipped with top-notch facilities and resources.
- **Collaborative Atmosphere:** Thrive in a friendly and collaborative atmosphere, where excellence is the norm, and knowledge and skills are shared among passionate scientists.

Immediately Available Positions:

1. **Mechanisms of TNT Formation:** Investigate the cellular and biophysical properties underlying TNT formation.
2. **TNT and Neurodegenerative Diseases:** Explore the role of TNTs and lysosome/autophagy pathways in the progression of Parkinson's and Alzheimer's diseases.
3. **TNT Functions during Development:** Study TNT functions during development using mouse and zebrafish models.

How to Apply: If you are enthusiastic about science and wish to contribute to our cutting-edge research, please submit:

- **Cover Letter:** Express your motivation to join the lab and your interest in the specific research project.
- **Research Experience:** Provide a brief description of your research experience and accomplishments.
- **CV:** Include your curriculum vitae detailing your academic and research background.
- **References:** Provide names and contact information for two references. Submit all documents as a single PDF file to chiara.zurzolo@pasteur.fr.

Learn More: Explore our unit homepage: Membrane Traffic and Pathogenesis

Complete List of Published Work in My Bibliography:
https://www.ncbi.nlm.nih.gov/sites/myncbi/18Oi91jp0nrAe/bibliography/52746105/public/?sort=date&direction= ascending

`We Are Committed: We are dedicated to fostering a fair, inclusive, and diverse work environment where every scientist has the opportunity to excel and contribute meaningfully to scientific progress.