

Postdoctoral position in vascular biology

Job Profile

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Offer description A postdoctoral position is available for 12 months in the Team III: "Vascular and pulmonary diseases" at the research unit UMR Inserm 1087/Cnrs 6291 of *l'Institut du thorax*, Nantes, FR. The team is looking for a highly motivated postdoctoral researcher with expertise in vascular biology/pathophysiology to join an interdisciplinary project gathering neuroradiologists, geneticists and vascular biologists focused on intracranial aneurysm. Although the pathogenesis of intracranial aneurysm has been the subject of many studies for the last decade, the mechanisms underlying intracranial aneurysm formation, growth and rupture are still mostly unknown and relevant animal models of IA are not available. Familial history of aneurysm predisposes to intracranial aneurysm formation and rupture and increasing evidence suggest a genetic component of IA formation. We identified intracranial aneurysm-causing variants by whole-exome sequencing in familial forms of the disease and the project aims at discovering the mechanisms through which these variants predispose to intracranial aneurysm.

- Researcher profiles**
- First-Stage Researcher (*PhD candidate*)
 - Young Researcher (*with less than 4 years research experience after PhD*)
 - Established Researcher (*with more than 4 years research experience*)
 - Senior Researcher

- Research Fields (2 max.)**
- | | |
|---|---|
| <input checked="" type="checkbox"/> Biological Sciences | <input type="checkbox"/> Medical Sciences |
| <input type="checkbox"/> Chemistry | <input type="checkbox"/> Neurosciences |
| <input type="checkbox"/> Computer Science | <input type="checkbox"/> Pharmacological Sciences |
| <input type="checkbox"/> Engineering | <input type="checkbox"/> Physics |
| <input type="checkbox"/> Environmental Science | <input type="checkbox"/> Technology |
| <input type="checkbox"/> Ethics in Health Sciences | <input type="checkbox"/> Other (specify): |

- Main Activities**
- Conduct a set of biological approaches cell and molecular biology, biochemistry, histology, microscopy, in/ex vivo, imaging, ...
 - Study gene and protein expression/activity by RNA sequencing, quantitative PCR and Western blot.
 - Implement in vitro/ex vivo/in vivo physiological exploratory protocols in relevant cell and animal models

- Associated Activities**
- Participate actively in the supervision of students (L3, M1, M2) and young researchers.

Specific Requirements or Constraints

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- Skills/Qualifications**
- Expertise in vascular biology, cell and molecular biology, biochemistry, cell signalling/signal transduction, and animal models (rodents).
 - Good communication and interpersonal skills is critical, as well as the ability to work within an interdisciplinary team.

- The ideal candidate will have a track record of scientific productivity, as evidenced by first-authored publications in peer-reviewed scientific journals.

Required Experience 0 to 2 years 2 to 4 years 4 to 10 years >10 years

Fields: Vascular biology and physiology

Required Education Level or Diploma

- A PhD or MD/PhD degree is required

Required Languages

- English, french

Hosting Unit

Code UMR 1087

Name The research unit of l'institut du thorax

Director Richard REDON

Composition 171 people

Address 8, QUAI MONCOUSU 44000 NANTES

Website <https://umr1087.univ-nantes.fr/>

Contract

Type Fixed-term contract

Duration One-year contract.

Salary Salary will be commensurate to skills and previous experience and in line with EU standards.

Envisaged Start Date 01/06/2022

Application

Applicants must send a CV and a cover letter to: Gervaise Loirand, PhD, Deputy director of UMR Inserm 1087/Cnrs 6291 of l'Institut du thorax, Nantes, FR; Head of the team III: Vascular and pulmonary diseases. To apply, please email with your CV and the name of 2 references, a 2-3 p Research Statement outlining past, present and future research interests, and why you consider yourself a good candidate for the position. Applications will be considered on a rolling basis.

Contact for further information (name, telephone/mail): gervaise.loirand@univ-nantes.fr

Deadline for application: 31/04/2022