



Opening position at **Université de Paris**

24 month POST-DOCTORAL FELLOWSHIP

Research

Stroke is a leading cause of death worldwide for which clinicians lack therapeutic strategies. Oxidative stress is a well-known contributor to ischemic stroke damage. Besides neuronal loss, oxidative stress is also implicated in vessel damages, inducing cerebral hemorrhage, a major stroke complication. The current anti-oxidant strategies however have failed their translation into clinics. The goal of the **ANR sponsored project Stric-On** (*Stroke thrombolysis with r-tPA improved by cerium oxide nanoparticles*) is to develop anti-oxidant nanoparticles of cerium oxide coated with innovative polymers and biomolecules for neuronal and vascular protection following stroke. The outcome of the project will be the knowledge of the potential of innovative nanoparticles as therapeutic agents for stroke.

Context

The post-doctoral position is funded from the Agence Nationale de la Recherche for 24 months (starting November 01, 2021). The work will be performed at the Université de Paris (MSC and UTCBS). In the postdoctoral work, emphasis will be on nanoparticle synthesis and catalytic activity, coating with polymers and functionalization with biomolecules. For this purpose, innovative polymer architectures synthesized by our partner SPECIFIC POLYMERS (www.specificpolymers.fr) will be used. Motivated candidates should have a solid expertise in nanomedicine, with a good knowledge of nanoparticle synthesis and functionalization for biological applications. Experimental techniques used will be nanoparticle synthesis, catalysis, scattering, spectrometry, calorimetry and microscopy.

If you are interested in this position, please contact Dr. Jean-François Berret (jean-francois.berret@u-paris.fr) and Dr. Cyrille Richard (cyrille.richard@u-paris.fr), or visit my website: <https://www.jean-francois-berret-website-pro.fr>

Send applications to above emails, include CV with names and addresses of two referees / motivation letter required

Université de Paris

Laboratoire Matière et Systèmes Complexes
(MSC), UMR 7057, 10 rue Alice Domon et Léonie
Duquet, 75205 Paris Cedex 13, France
email jean-francois.berret@univ-paris-diderot.fr
phone : +33 1 57 27 61 47

Université de Paris

Faculté des Sciences Pharmaceutiques et Biologiques
Unité de Technologies Chimiques et Biologiques
pour la Santé (UTCBS), 4 av. de l'Observatoire
75270 Paris Cedex 06
email cyrille.richard@u-paris.fr
phone : +33 1 53 73 95 66