

Postdoc position (Regenerative Medicine Center Utrecht)

Profile

We are looking for an enthusiastic, highly motivated candidate with a strong interest in a molecular understanding of biology. We are especially interested in applicants that are excited to work in a collaborative and multidisciplinary environment and have solid background in cell and molecular biology.

Project

The project aims to characterize the molecular mechanisms underlying the anti-inflammatory and regenerative properties of MSC-derived extracellular vesicles (MSC-EVs) in cartilage repair. The research is a follow up of our work showing that MSC-EVs are an important component of MSC paracrine signalling and have a major contribution to cartilage regeneration and inhibition of inflammatory responses in osteoarthritic chondrocytes.

You will be working with the variety of techniques including: differential centrifugation and sucrose gradient, size exclusion chromatography, Western blotting, flow cytometry, cell culture, confocal microscopy, electron microscopy, nanoparticle tracking analysis, cutting edge cloning techniques, lentiviral transductions, making transgenic cell lines, co-culture, siRNA knock down and Crispr-Cas9 technology. The project will also make use of the unique material from osteoarthritic patients.

Organization

You will be working at the Regenerative Medicine Center in Utrecht, which offers an international, very dynamic and stimulating work environment. The RMCU is an inter-faculty initiative with scientists from medicine and veterinary medicine gathered together. This provides a unique collaborative setting for regenerative medicine projects. The RMCU houses the world-class equipment and is located in the scientific campus of the Utrecht University with the access to a large number of facilities. Utrecht is beautiful city located in the center of the Netherlands, in close proximity of Amsterdam and its international airport.

Application deadline: 28 February 2019

Application process: Please send one PDF document containing a cover letter with your motivations, a very concise summary of previous research activities, the curriculum vitae and the contact details for 3 referees to m.j.lorenowicz@umcutrecht.nl

Further information: For more information on the research focus of the group please check our website: <https://www.msc-biology-group.com>. For questions about the position, please send an email to m.j.lorenowicz@umcutrecht.nl.