

# Postdoctoral Position

## Edgar R. Gomes Lab

We are looking for a motivated post-doc to join the Gomes Lab at IMM-Lisbon, funded by a European Research Council (ERC) Synergy Grant. The position represents an exciting opportunity to work as part of a collaborative ERC synergy grant with [Michael Way](#) (the Francis Crick Institute, London) and [Carolyn Moores](#) (Birkbeck, London) to investigate the molecular, cellular and physiological diversity of the Arp2/3 complex.

### Project scope:

The Arp2/3 complex consisting of seven protein subunits is essential to stimulate dynamic branched actin networks during multiple fundamental cellular processes. The Way lab previously demonstrated that Arp2/3 subunit composition dramatically affects the formation and stability of branched actin networks (Abella et al., 2016). Moreover, the Gomes lab demonstrated that specific Arp2/3 isoforms are essential for normal muscle development, specifically the position of the nucleus in the periphery of the myofibers and the formation of muscle triads (Roman et al. 2017). The proposed project, which involves a close and interactive collaboration with the labs of Carolyn Moores (Birkbeck, London) and Michael Way (Crick, London), will use structural, biochemical and cellular approaches to understand the regulation and properties of the eight different human Arp2/3 complexes during muscle development and regeneration. The successful candidate(s) will be expected to drive their own independent research programme using high resolution microscopy in combination with biochemistry, optogenetics and molecular biology approaches.

[Abella et al., Nature Cell Biol 2016](#)

[Roman et al., Nature Cell Biol 2017](#)

[Roman et al., Science 2021](#)

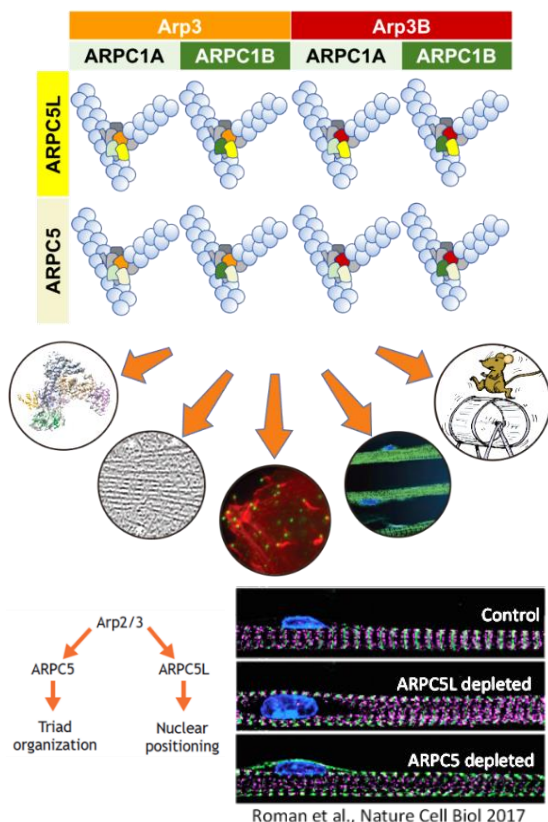
For more information on the Gomes laboratory, please visit our website [here](#).

### Host Institution :

The [IMM](#) is a leading Portuguese biomedical research institute, that aims to nurture innovative ideas in basic, translational and clinical research, with the mission of improving human life through the study of disease mechanisms and the development of novel predictive/diagnostic tests and therapeutic approaches.

### Research in Portugal:

"In the western tip of Europe, you will find a country at the forefront of technological developments with the perfect combination of European cultural traditions, an eight centuries-old history, a pleasing lifestyle and the most welcoming people." (from [www.study-research.pt](#) video [here](#))



### Post-doctoral Profile :

- Curiosity to understand how the cytoskeleton controls cell organization and membrane contact sites.
- Imagination to decipher how organelle connections mediate cellular functions.
- Capacity to work in a multi-disciplinary team.

- Experience with *in vitro* and/or *in vivo* fluorescent microscopy experience (preferential).
- Mouse cell biology and/or physiology experience (preferential).

### Expression of Interest:

Please send the following documents to [imm-egomeslab@medicina.ulisboa.pt](mailto:imm-egomeslab@medicina.ulisboa.pt) until the 15<sup>th</sup> of December.

- Cover letter (please include contacts of at least two references).
- CV including major achievements.