

## POST-DOCTORAL POSITION AVAILABLE

### AT THE MOLECULAR MEDICINE LABORATORY OF THE INTERNATIONAL CENTRE FOR GENETIC ENGINEERING AND BIOTECHNOLOGY (ICGEB)

#### Job description

This is a 3-year position for a talented and ambitious post-doc for a project aimed to generate iPSCs from patients with inherited cardiomyopathies and to study the cellular, molecular and structural effect of the investigated mutations. The position is funded through a collaborative programme between the Molecular Medicine Laboratory of ICGEB (Professor Mauro Giacca) and the SC Cardiologia of ASUGI-University of Trieste (Professor Gianfranco Sinagra). The postholder will be part of a multi-disciplinary research team of clinical and experimental investigators, who have over 20 year-experience in the field of molecular studies in cardiology. Recent publications of the team include: Merlo, M, et al. 2020. *Eur J Heart Fail* 22, 1111; Cannata, A, et al. 2020. *Circ Res* 126, 1394; Gabisonia, K, et al. 2019. *Nature* 569, 418; Zacchigna, S, et al. 2018. *Nat Commun* 9, 2432; Lesizza, P, et al. 2017. *Circ Res* 120, 1298; Eulalio, A, et al. 2012. *Nature* 492, 376).

#### Key objectives of the post

The incumbent will establish iPSCs from patients, apply methods for their differentiation into cardiomyocytes, develop technologies for the generation of engineered myocardial tissue in vitro and study the properties of the cells and structures that will be obtained. A specific goal of the project is to use the established iPSC cell platform to develop innovative technologies for CRISPR/Cas9 genetic editing of inherited cardiac mutations.

This post will be offered on a fixed-term contract until 3 years

#### Skill, knowledge and experience

PhD or equivalent degree in Medicine, Biophysics, Biological Science or other related fields.

Previous research experience in molecular and cellular biology.

Experience in the generation of iPSCs, electrophysiology, work in animal models of cardiac disease an asset.

#### Contact details

Candidates should send their CV together with a cover letter and contact details to [matteo.dalferro@asugi.sanita.fvg.it](mailto:matteo.dalferro@asugi.sanita.fvg.it) and [francesca.bortolotti@icgeb.org](mailto:francesca.bortolotti@icgeb.org). Evaluation of the applications will begin as they are received and will continue until the position is filled.

