

CONTRACT Ref:109/2020

Requirements to participate in the call:

- Have Spanish nationality or work permit, or some other nationality that allows access to public sector employment. If you do not have it and this person is selected, the contract will not be formalized until the corresponding documentation is in order. In the event that this procedure is not finally completed within two months of the grant the selected person cannot be hired; leaving, in this case, the square deserted or referred to the next person in the event that priority order has been given in the Resolution.
- Be 16 years old and not exceed, where applicable, the maximum age of forced retirement or the other age that you may establish by law.
- The applicant will be bound by TEMPORARY WORK AGREEMENT with the Foundation for Health Research of the University Hospital and La Fe Polytechnic for the period determined for the research project. This procurement is subject to the granting of the relevant administrative authorisation.
- The Foundation and/or the Tribunal, for reasons of interest to the entity, may at any time withdraw the resolution or cancellation of this Call, without any justification.

Research Project Title: Personalize AF: Personalized Therapies for Atrial Fibrillation. A Translational Approach Training Network.

ESR1 (SPAIN): Prediction of drug effect on tissue arrhythmogenicity by hi-IPSC in vitro model.

About HULAFE:

The Health Research Institute Hospital La Fe (IIS La Fe) manages the scientific policy of La Fe University Hospital (Hospital Universitari i Politècnic La Fe) in its sphere of influence (La Fe Health Department, Valencia - Departament de Salut València La Fe). Its managing body is the Research Foundation of La Fe University Hospital (Hospital Universitari i Politècnic La Fe), a non-profit foundation of the public sector of the Generalitat Valenciana. The Institute encourages, promotes and fosters cutting-edge investigation, scientific and technological knowledge and its further transfer to the production sector. The same holds true in its role in teaching and training in the Hospital and other primary care centres that fall under the Health Department. The IIS La Fe was accredited by the Health Institute Carlos III (Ministry of Economy and Competitiveness) as a Health Research Institute in 2009, and again re-accredited in 2014, and is made up of the following entities: Hospital Universitari i Politècnic La Fe, Conselleria de Sanitat Universal i Salut Pública, Universitat de València, Universitat Politècnica de València, Consejo Superior de Investigaciones Científicas and Foundation for Research of the U. and P. La Fe Hospital of the Valencian Community. The Institute is formed by 26 Accredited Research Groups, 12 Mixed Units and other 13 Research Groups. Moreover, our research staff form part of other networks and consortiums, such as 4 CIBERs (Consortium of Biomedical Research) and 10 RETICs (Collaborative Investigation Thematic Network in Health). In 2016, the R+D management system of IIS La Fe was certified according to the UNE 166002 standard for innovation, development and innovation activities in medical sciences (clinical sciences, pathology, internal medicine, surgery), computers and instrumentation technology applied to health sciences. The Quality and R+D Policy of the Institute establishes the general guidelines of this system, and evidences the Management's commitment to it.

Project description:

The aim of this project is to develop an in-vitro workbench for drug screening by developing a population of hiPSC-derived atrial cardiomyocytes that account for the interpatient variability in cardiac ion channels due to genetic/transcriptional factors. This population of models will be used for testing the arrhythmia inducibility after administration of drugs by analyzing the electrophysiological behaviors and to determine patient biomarkers that can predict drug response and plan a personalized AF therapy.

IIS La Fe has decided to publish a call for a job offer, by a competitive procedure, for a University – Health Sciences – Experimental Sciences, to perform the tasks in the framework of the Project

Service/Unit/Accredited Group: REGENERATION AND HEART TRANSPLANTATION UNIT

Candidate requirements: *(All requirements are necessary to apply):*

University Degree - Health Sciences - Experimental Sciences

Merits to value: (0-5 points)

HULAFE are looking for an Early Stage Researcher (ESR) with a special interest in cardiology focused in atrial fibrillation therapies, biology and genetics alterations, in order to perform during 3 years a basic research project aiming to identify specific transcriptome determinants of Atrial Fibrillation progression in patients.

Skills:

- Experience and knowledge in electrophysiology, especially in cardiac cells (1pt)
- Experience in hiPSC cell culture and differentiation towards cardiomyocytes (2 pt)
- Knowledge of specific techniques of cardiac function such as optical mapping, calcium transients and patch clamp (1.5 pt).
- Experience in standard biology and genetic laboratory techniques (0.5pt)

Eligibility:

- The candidate should meet H2020 MSCA ITN call's mobility rule. The respective candidate must not have resided for more than 12 months in Spain in the last three years.
- The candidate needs to be in his/her first four years of his/her research career. The four years are counted from the date a degree was obtained which formally entitles to embark on a doctorate in the country either in the country in which the degree was obtained or in the country in which the research training is provided.

Curriculum vitae and Academic Track-Record (0-2 points)

Candidates applying to HULAFE (ESR1) will need to apply directly within HULAFE website at <https://www.iislafe.es/en/job-offers/> (online registration, required documents: curriculum (CV), Degree, Academic Record and Other merits).

- Curriculum Vitae (1.5 pt)
- Academic track-record (0.5 pt)

Other Merits: (Complementary Training) (0-1 point)

- Experience in biology, cell culture, laboratory techniques and genetics will be considered an important merit. (0.2 pt)
- Capacity to communicate with scientists, engineers and clinicians of different disciplines. (0.2 pt)
- Motivated, flexible and positive work attitude. (0.2 pt)
- Proficiency in English language. (0.2 pt)
- Willingness to travel throughout the Europe in order to exchange expertise between the partners of Personalize AF consortium. (0.2 pt)

Interview (0-2 points)

Training/Roles to develop:

The candidate will perform functional techniques of cardiac electrophysiology under the supervision of Dr. Andreu Climent and Dr. Pilar Sepúlveda. Therefore, the essential requirements for this position include knowledge in cardiac electrophysiology and experience in iPSC culture and iPSC differentiation towards cardiomyocyte. The candidate will perform functional studies on hiPSC-derived cardiomyocytes obtained from patients suffering from atrial fibrillation in which will analyze electric properties such as the wave front conduction velocity, the duration, amplitude and shape of the action potential and calcium transients. The candidate will have the possibility to defend a PhD thesis at the end of the project.

Contract/Fellowship characteristics:

- Full time 40 hours/week.
- Amount:
 - Case A: 3.182,18 €/monthly gross (including living, mobility and family allowance).
 - Case B: 2.805,11 €/ monthly gross (including living and mobility allowance).
- Lenght: 36 months
- Exclusive devotion.

Deadline for application submission: 20/10/2020



Required documents On-Line www.iislafe.es

- Updated Curriculum Vitae.
- Track-Record with academic grade media.
- Copy of required educational qualifications.
- Supporting documents of the outlined merits.

** The documentation submitted for this open competition will be on deposit of IIS La Fe.*