

CONTRACT Ref:80/2018

Research Project Title: Iplacenta. innovation in placenta modelling for maternal and fetal health.

Iplacenta. innovation in placenta modelling for maternal and fetal health. IIS La Fe has decided to publish a call for a job offer, by a competitive procedure, for a University Degree- Health Sciences/Experimental sciences, to perform the tasks in the framework of the Project 2017/0540. iPLACENTA: Innovation in modelling Placenta for Maternal and Fetal Health.

ESR 14 (SPAIN) Development of epigenetic markers of abnormal fetal intrauterine neurodevelopment, correlation with fetal Doppler ultrasound. About HULAFE:

The FUNDACION PARA LA INVESTIGACION DEL HOSPITAL UNIVERSITARIO LA FE DE LA COMUNIDAD VALENCIANA (HULAFE) is a Spanish non-profit organization that carries out the scientific and research policy of the "La Fe" Health Department. The research of excellence carried out at the HULAFE is patient-oriented and was accredited as a "Health Research Institute" by the Spanish Ministry of Science and Innovation in 2009. The HULAFE offers scientific and technological services and has more than 10,000 m2 of clinical and research laboratories to undertake research activities based on state-of-the-art biomedical science, which aim to promote our six priority research areas: 1. Organ Transplants, Artificial Tissues and Implants; 2. Cancer; 3. Genetics, Genomics and Translational Research underlying disease mechanisms; 4. Experimental-Clinical Research in Neurology; 5. Clinical, Epidemiological and Pharmacological Research; 6. Technological Research in Biomedicine and Health.

HULAFE is committed with the concrete implementation of the Charter & Code in their policies and practices aiming at the continuous improvement of the human resources and was awarded with 'HR Excellence in Research' as provider of stimulating and favorable work environment for potential ESRs.

Project description:

This project is aimed to detect markers of abnormal neurological development in maternal blood. We will evaluate umbilical and maternal blood samples belonging to growth-restricted and normal pregnancies already studied with Doppler ultrasound. In these pregnancies genetic sequencing techniques will be performed in order to evaluate expression of micro-RNA. Those micro-RNA selected will be validated by mean of PCR, finding specific microRNA combinations associated with fetal growth restriction and neurological damage. The expression of these specific micro-RNA (and other epigenetic markers) related with neurogenesis, will be studied evaluating the association with fetal cerebral Doppler. The performance of a neurocognitive follow-up will also determine the associations among Doppler ultrasound, microRNA and neurocognitive state in the short, medium and long run, elucidating the possibility of predicting postnatal neurological damage when the fetus is still in utero.

Research Project ID: 2017/0540

Service/Unit/Accredited Group: : OBSTETRICIA

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 fetal medicine (obstetrics), biology and genetics, in order to perform during 3 years clinical and basic research to investigate epigenetic markers of fetal growth restriction and abnormal brain neurodevelopment. Skills:

- Experience and knowledge in Obstetrics, especially in fetal medicine, and fetal Doppler ultrasound.
- Knowledge in fetal ultrasound techniques: umbilical artery Doppler, fetal middle cerebral artery Doppler, uterine artery Doppler, fetal ductus venosus,

Eligibility:

To this position applies a mobility rule. The respective candidate must not have worked for more than 12 months in the Spain within the last three years. Furthermore, 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.

Expected starting date: 19.11.2018

Duration: 36 months

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

How to apply:

Candidates applying to HULAFE (ESR14) will need to apply directly with HULAFE website at <https://www.iislafe.es/en/job-offers/> (online registration; required documents: curriculum (CV), Degree, Academic Record and Other merits).

In addition, candidates are required to fill out application to iPLACENTA network:

-Application form download from iplacenta.eu.

-Email an application form to iplacenta@dundee.ac.uk

1. Completed form
2. Save as surname_DOB_iplacenta_appl
3. Merge attachment files to completed form.
4. Email to iplacenta@dundee.ac.uk
5. Check if host institute requires direct application (HULAFE and Aston)

Attachments to this form (merge into single PDF)

6. CV: required
7. Official qualification transcripts: required
8. Language certificate (if required)
9. Two letters of reference required

More info:

<https://www.iplacenta.eu/recruitment.html>

<https://www.findaphd.com/search/PhDDetails.aspx?CAID=3931&LID=296>

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

Although not an absolute requirement, the existence of a medical residence in obstetrics will be considered an important merit.

Although not an absolute requirement, the existence of experience in biology, laboratory techniques and genetics will be considered an important merit.

Able to communicate with scientists, engineers and clinicians of different disciplines;

Have a motivated, flexible and positive work attitude;

Proficiency in English language.

Be flexible to travel throughout the Europe in order to exchange expertise between the partners of iPLACENTA consortia

Training/Roles to develop:

This researcher will need to perform both: 1-clinical examinations (Doppler ultrasound) and 2-basic techniques of biology under the supervision of Prof. José Morales Roselló. Therefore, the essential requirements for this position will be important knowledge in fetal medicine (medical residency in obstetrics) plus some experience in laboratory techniques with a strong interest in learning genetics and biology. The candidate will have the possibility to defend a PhD thesis at the end of the projects.

Contract/Fellowship characteristics:

- Full time 40 hours
- Amount: 2.751,97 gross / month.
- Length: : 12 months renewable (until 36 months).
- Exclusive devotion.

Deadline for application submission: 25/10/2018

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.*