

### **Job description (PhD Fellowship, duration: 36 months)**

The Cancer Epigenetic Group at the **Cancer Epigenetic and Biology Program** lead by Dr Manel Esteller (PEBC – [www.pebc.cat](http://www.pebc.cat)) and based in Barcelona, Spain, is seeking a **Predocctoral Investigator** to develop a new project aimed to the identification of **epigenetic mechanisms altered in chromatin diseases**. The candidate will work independently, but in coordination with the Principal Investigator to define the interplay between DNA methylation and microRNA machinery in chromatin diseases such as Rett syndrome, ATRX syndrome or ICF syndrome.

The foreseen **start date** is October 1st, 2010.

### **Job summary:**

The project (in the FP7 International Training Network (Mobility project) – “*DisChrom – Chromatin Diseases: from basic mechanisms to therapy*”) will be focused on the definition of the epigenome in genetic pathologies resulting from mutations in structural components of chromatin (chromatin diseases). Global and gene-specific definition of DNA methylation and microRNA changes, identification of genes epigenetically regulated and functional consequences in cells deficient in chromatin-related factors will be performed by actual epigenetic tools. Particular attention will be given to high throughput technologies and analysis of DNA methylation. Embryonic stem cells, neuronal primary cultures and in vivo mice models will be employed as experimental models.

### **Experience / Requirements:**

- Ideally a Master’s degree (or any title allowing the candidate to enter a PhD program in Spain or in the country where the degree was obtained) in the field of Life Sciences: Biology, Chemistry, Pharmacy or other areas of Biomedical Science.
- Have not more than 4 years experience in science (this includes university studies)
- Excellent academic achievement (final grade).
- Experience in molecular techniques, tissue culture and animal tumor models.
- Fluent in English
- Applicants must not be Spanish citizens, except if they have legally resided and had their main activity in a non-associated third country for at least three of the last four years immediately prior to their employment. Furthermore, applicants must not have resided or performed their main activity in Spain for more than 12 months in the three year period immediately prior to employment.;

### **We offer:**

- Immediate incorporation into a research group of international prestige
- An excellent work environment (1000m2 of state-of-the art biomedical laboratories hosted at Hospital Duran I Reynals-IDIBELL in Barcelona, Spain)
- Incorporation into an international Training Network funded by the European Commission, including attendance of international training stays, conferences and workshops
- Competitive salary according to the FP7 Marie Curie scheme for ITN measures .

**The DISCHROM consortium seeks and encourages application from female candidates.**

**Please send**

- your CV
  - motivation letter and a
  - copy of your final degree (and marks) with a translation into English thereof
- to: [camroune@idibell.cat](mailto:camroune@idibell.cat) .

Subject line of your email: **PhD Fellowship Marie Curie + applicant's name**

Deadline for submitting applications: **September 1<sup>st</sup>, 2010.**