



EpiTRAITS

Epigenetic regulation of economically important plant traits

Marie Curie International Training Network

High profile training network that will improve career prospects in academia & private sector

11 PhD & 3 Post-Doc positions abroad in plant epigenetics/development/bioinformatics/modelling/
biotechnology /kit development in:

The Netherlands, Germany, England, Belgium, Poland, France and Spain

Job summary

These positions are part of the Initial Training Network EpiTRAITS - Epigenetic regulation of economically important plant traits. Details can be found at <http://www.epitraits.eu/> (website available Sept 1).

EpiTRAITS unifies experts in plant epigenetics, development, cytogenetics, imaging, bioinformatics and modelling with the goal to train a multi-disciplinary team of 14 young researchers in epigenetic gene regulation and flowering in the model plant *Arabidopsis thaliana* and the crop plants maize (*Zea mays*) and barley (*Hordeum vulgare*). Summer schools, workshops, and research stays at the other participating institutions will ensure a high level of knowledge transfer and collaborative research.

You will be part of an international consortium consisting of academia and private sector partners from the Netherlands, Germany, England, Belgium, Poland, France and Spain.

Job description

- **ER1 will generate marketable ChIP and 5-mC protocols for plant tissues** (Hélène Pendeville, Diagenode R&D Epigenetics, Diagenode SA, Belgium).
- **ER2 will develop cost-effective DNA methylation screens** (groups of Marcel Prins and Roeland van Ham, KeyGene, Wageningen, the Netherlands).
- **ER3 will study the role of epigenetic changes in plant regeneration potential** (group Renate Lührs, Phytowelt GreenTechnologies GmbH, Cologne, Germany).
- **ESR1A will study the role of chromosomal interactions in the regulation of flowering genes** (group Maïke Stam, University of Amsterdam, the Netherlands).
- **ESR1B will focus on the functional relationships between nuclear organization and gene regulation** (group Paul Fransz, University of Amsterdam, the Netherlands).
- **ESR2 will elucidate dynamic chromatin changes during the floral transition** (group Franziska Turck, Max Planck Institute for Plant Breeding Research, Cologne, Germany).

- **ESR3** will study the **role of MADS-box TFs in chromosomal interactions during flower development** (group **Gerco Angenent**, Wageningen University and Research Centre (WUR), The Netherlands).
- **ESR4** will **analyze the role of chromatin proteins in flowering** (group **Manuel Piñeiro**, Instituto Nacional de Investigaciones Agrarias (INIA) and Centro de Biotecnología y Genómica de Plantas (CBGP), Madrid, Spain).
- **ESR5** will **identify novel chromatin associated proteins involved in flowering** (group **Daniel Schubert**, Heinrich-Heine-University Düsseldorf, Germany).
- **ESR6** will **provide statistical and bioinformatic analysis of genome-wide data sets** (group **Paweł Krajewski**, Polish Academy of Sciences (IPG-PAS), Poland).
- **ESR7** will **perform comparative genomics and analysis of genome-wide data sets** (Biomol-Informatics, S.L., Madrid, Spain)
- **ESR8** will **develop static and dynamic models of the floral transition network** (groups **Charlie Hodgman** and **Graham Seymour**, University of Nottingham, UK).
- **ESR9A** will **study the functional relationships between nuclear organization and gene regulation** (group **Valérie Gaudin**, Institut National de la Recherche Agronomique, Versailles, **France**).
- **ESR9b** will **develop spatial models for the functional organization of the genome** (group **Philippe Andrey**, Institut National de la Recherche Agronomique, Versailles, France).

We aim at increasing the percentage of female researchers and especially encourage qualified women to apply.

Candidates need to register at <http://epitraits.eu/> and provide the required information:

- Motivation letter
- C.V. (EU format; <http://europass.cedefop.europa.eu/en/home>), including:
 - TOEFL scores (www.ets.org; if available).
 - List of internships (subject, name supervisor, grade, etc)
 - Publications (if applicable)
 - PhD project details (for postdoctoral fellows only)
- Grades (with explanation on the grading system)
- Two letters of recommendation and contact information of two referees
- The position(s) of interest including a ranking

Benefits

The salary follows the Marie Curie ITN Scheme and Collective Labour Agreement of the participating countries. An additional mobility allowance is paid depending on your home country and marital status.

Additional details

- Website for application is <http://www.epitraits.eu/>.
- PhD positions: based on a full-time appointment the duration of the appointment as a Marie Curie ITN fellow will be for a maximum period of 3 years. The appointment as a PhD student should lead to a dissertation (PhD thesis).
- Post-doctoral positions: based on a full-time appointment the duration of the appointment as a Marie Curie ITN fellow will be for a maximum period of 2 years.
- Positions are aimed at being full-time, but if necessary (e.g. for family or medical reasons) part-time appointments are possible. In cases where researchers – in agreement with the host organisation, and with prior approval of the European Research Executive Agency – execute their project on a part-time basis, the duration of the appointment can be extended, but not longer than the duration of the EpiTRAITS project (48 months; end date Sept 30, 2016).
- 2-days interview at University of Amsterdam Nov 6-7, 2012