



The objectives of FragNet are to (a) train a cohort of ESRs across FBLD methods and (b) develop individual skills in research into either new methods in FBLD or to apply FBLD to interrogate biological systems.

We are looking for highly motivated and talented students with a MSc degree who are interested in an ambitious multidisciplinary project on Fragment-Based Lead Discovery (FBLD).

At this moment we have 15 vacancies



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ESR15: Science, Business & Innovation in the pharmaceutical sciences

Host: VU University Amsterdam, The Netherlands

Academic supervisors: Prof. Peter van der Sijde, dr. Iina Hellsten & dr. Jacqueline van Muijlwijk (VU University Amsterdam)

Industrial supervisor: Dr. Wolfgang Jahnke (Novartis Pharma)

Synopsis

In this project, we will study innovation management in pharmaceutical sciences with a focus on the pharmaceutical (disruptive) innovation in the open innovation landscape which enables academia and SMEs to participate in lead discovery and chemical biology approaches. The ESR will study the absorptive capacity in academia, SMEs and pharma. Furthermore, pharmaceutical innovation management through collaboration networks between university, industry and government (triple helix) will be considered, using FBLD as a case study and secondly via mapping publication- and patent data to identify relationships and dependencies between start-ups, SMEs and big pharma in innovation dissemination.

Objectives

1. Study the disruptive innovation aspects of FBLD in respect to older technologies.
2. Using FBLD as case study, describe the absorptive capacity of SMEs, big pharma and academic institutes (EU, USA).
3. Study FBLD aspects in triple helix projects and describe best practice with respect to innovation and IP management.

Approach

These studies will reveal the differences in innovation management in different settings of pharmaceutical sciences (start-up, small company, large company) and how knowledge disseminates through the networks. This will also help all FragNet ESRs to better position and present their inventions (disseminative capacity). The results of the ESR15 will be published as scientific articles, and a PhD Dissertation.

Qualifications

We are looking for a PhD candidate with proven affinity in combining sciences and social sciences, for example through science and technology studies approaches, in particular within medical and/or pharmaceutical innovations. The successful candidate is interested in bridging the (exact) sciences and the social sciences, and holds, preferably, and (BSc or MSc) degree in (medicinal) chemistry, chemical biology or pharmaceutical sciences, and a (BSc or MSc) degree or attended (relevant) courses in social sciences.



Key publications

1. Schumacher A., German PG., Trill H., Gassmann O. (2013). Models for open innovation in the pharmaceutical industry. *Drug Discovery Today*, 18: 1133-7.
2. Leydesdorff, L. & Ahrweiler, P. (2014) In Search of a Network Theory of Innovations: Relations, Positions, and Perspectives, *Journal of the American Society for Information Science and Technology* 65(11): () 2359-2374
3. Freitas, I. M. B., Marques, R. A., & e Silva, E. M. D. P. (2013). University–industry collaboration and innovation in emergent and mature industries in new industrialized countries. *Research Policy*, 42(2): 443-453.



FragNet offers:

- Generously funded positions (duration 36 months) for 15 Early stage researchers (ESRs)
- High profile research projects in an Innovative European Training Network Program
- Excellent facilities for research and education
- Research training in both academic and industrial settings
- Training in state-of-the-art scientific and transferable skills
- Intensive contacts with international collaborators & secondments in other research laboratories

FragNet is looking for candidates that:

- are highly motivated and talented
- are able to work in a multidisciplinary team
- are keen on intra-European mobility to perform PhD research abroad
- have good communication skills

Selection criteria of the candidate:

- fulfil the eligibility criteria (ESR, international mobility) for Marie Skłodowska-Curie Innovative Training Networks (Horizon 2020)
- have a MSc degree in Life Sciences or obtain a MSc degree by September 2016
- have completed a research internship with relevant expertise
- have obtained high grades during his/her studies
- be fluent in English

Application procedure:

1. Send your application mentioning the **ESR number** in the subject line to hrm@fragnet.eu.
2. **Deadline for applications: 31 January 2016.**
3. Please send all the necessary information as **one pdf file** to hrm@fragnet.eu.
 - Detailed **CV** (include information on your BSc and MSc studies, languages, achievements, expertise)
 - **Motivation letter**, addressed to the FragNet selection committee, explaining your motivation why you apply with us. You have to indicate which FragNet ESR project(s) you are interested in (please motivate your selection and indicate which has your preference).
 - Provide contact details of at least 2 references (names, addresses, emails).
 - **Reference letter** from one of the enlisted references
 - Copies of your key educational certificates
 - **Transcript of Records** (i.e. documents enlisting your performance as BSc and MSc student over time by listing the course units or modules taken, credits gained and the grades awarded). If you have not completed your MSc degree yet include all grades obtained so far.
4. You may apply to more than one ESR position. If you do, submit a separate and dedicated application file for each position.
5. If applicable provide a language certificate Application is OPEN 3. The applications will be assessed by the FragNet selection committee, in which all group leaders are represented. Candidates are in particular evaluated on creativity, originality, intellectual capacity and quality of CV and motivation letter. The selection committee also takes into account interdisciplinary and gender balance.
6. Potential (Skype) interviews will be arranged with the group leaders associated with the ESR projects.
7. The ultimate starting date for the ESR projects is: **1st September 2016**, as the complete Fragnet ESR cohort will participate in the first Fragnet workshop that will be organized in York, UK in September 2016.

For other FragNet related questions please contact: info@fragnet.eu

Eligibility criteria

Eligibility criteria of Marie Curie Initial Training Networks apply. Only applicants who comply to the following conditions will be considered:

Conditions of experience (ESR)

Candidates must be, at the time of recruitment by the host organisation, in the first four years (full-time equivalent) of their research careers and have not yet been awarded a doctoral degree. This is measured from the date when they obtained the MSc degree which would formally entitle them to embark on a doctorate.

Conditions of international mobility

Eligible candidates may be of any nationality but must not, at the time of recruitment have resided or carried out their main activity (work, studies, etc.) in the country of their host organisation for more than 12 months in the 3 last years immediately prior to the reference date.



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