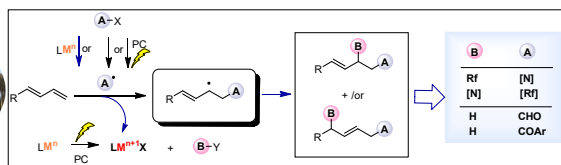


PHD POSITION IN ORGANIC SYNTHESIS – UNIVERSITAT ROVIRA I VIRGILI (URV), TARRAGONA, SPAIN

“Join us in cutting-edge research in Organic Synthesis!”



Reference: 2025PMF-PIPF-26 (Martí Franquès Research Fellowship Programme 2025)

Research Group: *Stereoselective Organic Synthesis*, Faculty of Chemistry, URV.

Supervisors: Prof. Maribel Matheu & Dr. Yolanda Díaz.

Project Title: *Functionalization of Dienes via Radical Chemistry: Challenges and Opportunities* (PID2024)

PhD Research Topic: *Development of radical synthetic procedures for the fluoroalkyl amination, hydroformylation and hydroacylation of dienes.*

The project aims to expand the range of synthetic strategies available for the functionalization of 1,3-dienes, a currently underdeveloped area. To this end, efficient and practical radical-based methods will be developed, focusing on the fluoroalkyl amination, hydroformylation, and hydroacylation of dienes, with particular attention to the control of regio- and enantioselectivity. The research will include the design and evaluation of new reagents, as well as the development of catalytic or photoinduced methodologies to carry out these transformations. The optimization of these strategies will enable their application to more challenging substrates and will be directed toward the synthesis of compounds with potential biological activity.

Contract Duration: 4 years (full-time)

Candidate Profile:

- Bachelor's degree in Chemistry (or equivalent)
- Master's degree in Organic Synthesis (or equivalent)
- Proven hands-on experience in experimental organic chemistry, particularly in fine chemistry
- Familiarity with spectroscopic techniques for structural elucidation of organic compounds
- Strong written and spoken communication skills in English
- High motivation to undertake doctoral research in a collaborative environment

Application Deadline: June 13, 2025 – 23:59 CEST

How to Apply:

1. Submit your application online via:
<https://seuelectronica.urv.cat/treballar-a-la-urv/2025pmfpipfenglish.htm>
2. Contact Prof. Maribel Matheu (maribel.matheu@urv.cat) **before June 13, 2025.**