

Open positions in the Romero-Nieto Group

PhD position in the development of new drugs to treat brain cancer using new derivatives based on phosphorus heterocycles.

This is a contract to carry out a doctoral thesis under the supervision of Prof. Elzbieta Regulska in the group of Prof. Carlos Romero-Nieto at the Faculty of Pharmacy in Albacete.

This project will be part of an international consortium of five research groups focused on the investigation of new drugs for the treatment of brain cancer. The objective will be the synthesis and characterization of new molecular systems that overcome the efficiency of the drugs already established by the group and open new research possibilities towards a better treatment of brain cancer.

Reference papers:

- *Chem. Eur. J.*, 2022, 28, e202104535
- *Nanoscale*, 2022, 14, 17500-17513
- *Chem. Commun.*, 2020, 55, 14593 -14596

Profile of the candidate:

A degree in Chemistry and a Master's degree in Organic Chemistry, Medicinal Chemistry, Biochemistry or Pharmaceutical Chemistry is a plus. Experience in organic synthesis is a must. Experience in medicinal chemistry, experience in the use of chromatographic techniques (HPLC and column chromatography), as well as experience with characterization techniques such as NMR will be positively valued.

Requirements:

- Master's degree in organic chemistry, medicinal chemistry, biochemistry or pharmaceutical chemistry.
- Candidates must have experience in organic synthesis.
- Experience in medicinal chemistry, experience in the use of chromatographic techniques (HPLC and column chromatography), as well as experience with characterization techniques such as NMR will be highly valued.
- Minimum undergraduate grades above 7.5/10 are preferred.
- Strong analytical and problem-solving skills
- Strong organizational and time management skills
- Commitment to the project and willingness to learn and develop new skills as needed.
- Candidates must be enthusiastic about science, proactive and communicative (in English). Must be a team player, have an open attitude and great social skills.
- Commitment to the project and ability to lead and mentor graduate students when needed.
- Fluency in spoken and written English.

How to apply: CV and contact details of two reference persons in a single pdf should be sent to romeronietogroup@gmail.com. The CV should include the degree grade. All candidates will be interviewed through Zoom

We offer: 1) The PhD position of an initial duration of 1 year, with the possibility of extension until the end of the PhD. 2) A salary in accordance with UCLM guidelines. 3) Work in a collaborative team environment. 4) Possibility to work independently with the guidance and support of senior researchers. 5) Opportunity to present research results at international seminars and conferences. 6) Access to fully equipped laboratories with advanced analytical techniques. 7) Location in a well-communicated city in Spain.

About the group and the city:

The group is highly international and the communication is in English. It operates within a collaborative team environment, where candidates will have the opportunity to work independently on their research,

while receiving guidance and support from senior researchers as needed. The project will involve the development of skills in synthetic chemistry, photophysical investigations, and effective communication of scientific results. Candidates will have the opportunity to present their work at seminars and international conferences, which will help to further enhance their skills and knowledge.

The group is based at the Faculty of Pharmacy in Albacete, which is a modern and well-equipped institution. Albacete is situated in the region of Castilla-La Mancha, and is known for its excellent transportation links, with high-speed train services and direct connections to cities such as Cuenca, Madrid, Valencia, Alicante, and Murcia. Additionally, the beautiful beaches of Alicante can be reached within just 55 minutes by train. The Sierra de Alcaraz mountain range is located approximately 80 km south of Albacete, offering numerous hiking opportunities with peaks reaching up to 2000 meters in height. The city is surrounded by picturesque villages, including Alcalá del Júcar, Ayna, and Bogarra. Living in Albacete is affordable and offers a vibrant social scene, with all major amenities located within walking distance, making it an ideal location for achieving a good life-work balance.

More information about the group can be found on the web: romero-nieto.com and on Twitter: [@cromeronieto](https://twitter.com/cromeronieto)

