CEU
Universidad San Pablo

Traineeships offer for international students

Faculty of Pharmacy

Madrid (SPAIN)

Presentation

Dear student,

We are proud to present you the offer of the Faculty of Pharmacy of the University CEU-San Pablo of **Traineeships for ERASMUS and other International students**.

We offer both **research and hospital or community pharmacy traineeships**.

The **Research Groups** of our Faculty are widely recognized for their excellence and are used to receiving international students. Within our research groups, the international students are warmly hosted and receive personalized attention (read the testimonials of some of our former international students). All our researchers are fluent in English, so don't be afraid if you don't speak Spanish. However, we strongly recommend you to join the free Spanish courses that we offer for our international students.

Our **Pharmacy Traineeships** are held in Hospitals and Community Pharmacies of Madrid metropolitan area. All these Pharmacies are selected by our Faculty because of the high quality of their teaching program. For these traineeships a B2 level of Spanish is required.

If you are interested in carrying out a traineeship in our Faculty, please follow the instructions of the box bellow.

Do not hesitate to contact us if you need further information. Looking forward to seeing you in our Faculty,

Carmen Pérez (capegar@ceu.es) & ***Paola Otero*** (paotero@ceu.es)
International Relations Coordinators
Faculty of Pharmacy. University CEU-San Pablo.

HOW TO APPLY:

Deadlines:
1st (fall) semester: 30th March
2nd (spring) semester: 30th June

Steps to apply:

1) Complete this online form

2) Send by email to inter_far@ceu.es the following documents:
   - CV
   - Nomination letter/email from your international/academic coordinator in your home University.

NOTES:

1. *There are limited places available and we will not proceed with your application until we receive these documents.*
2. *Students should not contact directly the research group's leaders.*

What our former international students say…

"I miss working in the lab with you all! I am very happy to say I have graduated from Surrey with an upper second class honours degree in Biomedical Science BSc!! Thank you for an amazing year at CEU, I wouldn't have been able to get through this degree without that year working with you; it was my favourite part of the degree"
Rhian Ford· University of Surrey (UK)

"I am so glad I had the opportunity to be part of this University for three months·Here I learned a lot, worked really hard, in an amazing friendly atmosphere· I met many professors and PhD students, who were both experts in the field and nice to work with·The University CEU-San Pablo gave me a lot and I will bring everything with me for the rest of my life·I am so thankful to the Erasmus program for this opportunity and to my wonderful pharmacology lab for hosting me!
¡Hasta pronto Madrid!"
Sharon Spizichino, University La Sapienza (Italy)

"I just wanted to thank you again for your kind hospitality and help with my project in Spain· I received an excelent mark for the work I did with you and I will graduate with honours which I am so very pleased and would have not have been possible without you"
Sidnead Peare· University of Bath (UK)

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Traineeships Offer

Research Groups

1. Perinatal Biochemistry
2. Regulation of Metabolism
3. Neuropharmacology
4. Motor neuron diseases
5. Nutrition and Food Science
6. Biotechnology of the plant-microbiome interaction
7. Drug Design and synthesis
8. Organometallics
9. Brain Tumor Research Lab
10. Neuroaging and Neuroprotection
11. Centre of Metabolomics and Bioanalysis (CEMBIO)
12. Parasitology / Immunology
13. Vascular Disease and Obesity
14. Virology and Innate Immunity
15. Research Group in Microbial Biotechnology.

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Hospital and Community Pharmacies

Requisites for student's placements:

- Knowledge of Spanish: **level B2** (according to EU languages common framework)
- Duration of the placement: 2-6 months

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Perinatal Biochemistry

1. **Group leader: Henar Ortega Senovilla**

   (http://www.researcherid.com/rid/H-7431-2013)

2. **Research lines:**

   - Perinatal Biochemistry

3. **Techniques routinely used in the lab:**

   - Gas Chromatography.
   - Spectrophotometry.
   - Densitometry.

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Regulation of Metabolism

1. **Group leader: Pilar Ramos Álvarez**

   (http://www.researcherid.com/rid/B-6359-2011)

2. **Research lines:**

   - Molecular mechanism of insulin resistance in normal and pathological gestation.
   - Molecular basis of obesity.
   - Fetal programming, placental function and fetal growth.

3. **Techniques routinely used in the lab:**

   - Western-blot.
   - qPCR
   - Cell culture
   - Enzymatic activities.
   - Immunohistochemistry.

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Neuropharmacology

1. **Group leader: Gonzalo Herradón Gil-Gallardo**

   (http://www.researcherid.com/rid/C-8305-2012)

2. **Research lines:**

   - Neurodegenerative diseases.
   - Neuroinflammation.
   - Addiction.

3. **Techniques routinely used in the lab:**

   - Immunohistochemistry.
   - Molecular Biology.
   - Behavioral tests.

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Motor Neuron Diseases

1. **Group leader: Luis Fernando Alguacil Merino**

   (http://www.researcherid.com/rid/J-6466-2016)

2. **Research lines:**

   - Neurodegeneration.
   - Motor neuron diseases.
   - Polyglutamine diseases.

3. **Techniques routinely used in the lab:**

   - Cell cultures.
   - Western blotting.
   - Cytotoxicity assays.
   - Quantitative PCR

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Nutrition and Food Science

1. **Group leader: Gregorio Varela Moreiras**

   https://www.scopus.com/authid/detail.uri?authorId=55917735600

2. **Research lines:**

   - New Functions of folic acid in relation to health and disease prevention.
   - Cycle regulation of methionine and homocysteine metabolism through folic acid and vitamin B6 and B12.
   - Assessment of nutritional status and potential risks in older people.
   - Bioavailability of food folate.
   - Assessment of nutritional status in celiac population.
   - Development and evaluation of functional foods.
   - Food folate fortification

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Biotechnology of the Plant Microbiome-Interaction

1. **Group leaders: Javier Gutierrez Mañero** (http://www.researcherid.com/rid/ I-6545-2014)
   Beatriz Ramos Solano (http://www.researcherid.com/rid/ I-6545-2015)

2. **Research lines:**
   - Plant biotechnology.
   - Plant-microbiome interaction.
   - Plant secondary metabolism.

3. **Techniques routinely used in the lab:**
   - qPCR.
   - HPLC.
   - Colorimetry.
   - Bioinformatics.

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Drug Design and synthesis

1. **Group leaders:** **Beatriz de Pascual-Teresa** (http://www.researcherid.com/rid/J-4318-2012)
   Ana Ramos González (http://www.researcherid.com/rid/E-8740-2012)

2. **Research lines:**
   - Design and synthesis of dual HDAC/CK2 inhibitors as anticancer agents.

3. **Techniques routinely used in the lab:**
   - Conventional and microwave organic synthesis.
   - Column chromatography.
   - HPLC.
   - Mono and bidimensional NMR.
   - Infrared spectroscopy.
   - Mass spectroscopy.
   - Cytometry.

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Organometallics

1. **Group leader**: **Javier Pérez Castells**

   (http://www.researcherid.com/rid/F-4894-2015).

2. **Research lines:**

   - Flux chemistry.
   - Carbohydrate derivatives.
   - Novel ruthenium catalysed rearrangement reactions.

3. **Techniques routinely used in the lab:**

   - NMR.
   - IR.
   - HPLC.
   - Flux system.
   - Chromatography

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Brain Tumor Research Lab

1. **Group leader: Angel Ayuso Sacido**
   (http://www.researchgate.net/profile/Angel_Ayuso-Sacido)

2. **Research lines:**
   - Cancer Stem Cells.
   - Liquid Biopsy biomarkers.
   - Brain tumour biology

3. **Techniques routinely used in the lab:**
   - Cytometry.
   - MTS.
   - RNA expression.
   - Microvesicles Isolation.
   - Cancer Stem Cells Derivation from human brain tissue.

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Neuroaging and Neuroprotection

1. **Group leader: José Luis Lavandera Díaz**

   (http://www.researcherid.com/rid/ K-3690-2014)

2. **Research lines:**

   - Neurodegenerative Diseases. Neuroinflammation. Neuroprotection, Pathophysiology mechanisms.

3. **Techniques routinely used in the lab:**

   - Cell culture.
   - Flow Cytometry.
   - Fluorescence Microscopy.
   - Fluorescence Spectroscopy.
   - Western Blot

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Centre of Metabolomics and Bioanalysis (CEMBIO)

1. **Group leader: Coral Barbas Arribas**

   (http://www.researcherid.com/rid/ K-3871-2014)

2. **Research lines:**
   - Searching for biomarkers through metabolomics.
   - Identifying mechanisms of action.
   - Developing strategies for metabolomics with mass spectrometry.

3. **Techniques routinely used in the lab:**
   - LC-MS
   - GC-MS
   - CE-MS.

More info: www.metabolomica.uspceu.es

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Parasitology and Immunology

1. **Group leader: Carmen del Águila de la Puente**

   (http://www.researcherid.com/rid/A-6063-2016)

2. **Research lines:**

   - Parasitology: Oportunistic Parasites: microsporidia, *Cryptosporidium, Cyclospora* and free living amoebas. Improvement in diagnosis, treatment and prevention. Water as a risk factor in the acquisition of parasites.
   - Immunology: Evasion of immunology system, apoptosis and autoimmunity induced by parasites.

3. **Techniques routinely used in the lab:**

   - Immunological Techniques (ELISA, IFI, Western Blot).
   - Molecular Biology Techniques.
   - Cell cultures.

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Vascular Disease and Obesity

1. Group leaders:

Marta Gil Ortega (http://www.researcherid.com/rid/M-8742-2015)

Beatriz Somoza Hernández (http://www.researcherid.com/rid/ M-1260-2017)

2. Research lines:

- Cardiovascular alterations related with metabolic diseases (obesity and/or diabetes).
- Cardiovascular alterations in models of chronic kidney disease.

3. Techniques routinely used in the lab:

- Vascular reactivity.
- Western blot.
- Cell culture.
- Immunofluorescence.

Virology and Innate Immunity

1. **Group leader: Estanislao Nistal Villán**

   (https://orcid.org/0000-0003-2458-8833)

2. **Research lines:**

   - Innate immunity.
   - Viruses.
   - Viral oncolysis.

3. **Techniques routinely used in the lab:**

   - qPCR.
   - Tissue culture.
   - Antiviral assays.

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Research Group in Microbial Biotechnology

1. **Group leaders:**

   Agustín Probanza Lobo
   (https://publons.com/researcher/2693368/agustin-probanza-lobo/)
   Pedro Antonio Jimenez Gomez

2. **Research lines:**

   - Antibiotic resistance
   - Microbial ecology
   - Plant growth promoting rhizobacteria.

3. **Techniques routinely used in the lab:**

   - Antibiotic Cenophenoresistome.
   - Community Level Physiological Profiles
   - RT-PCR/q-PCR

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