Traineeships's 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 send us your CV and a motivation letter indicating the dates and the type of traineeship desired (research or hospital or community pharmacy). In the case of research traineeships, include also a selection of 3 of our research groups in order of preference. We will need to receive this information at least 2 months before the starting date of your traineeship.

Do not hesitate to contact us if you need further information.

Looking forward to seeing you in our Faculty,

Carmen Pérez (capegar@ceu.es) & Ana Gradillas (gradini@ceu.es)
International Relations Coordinators
Faculty of Pharmacy. University CEU-San Pablo.
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 excellent 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)
Traineeships’s Offer

Research Groups

1. Perinatal Biochemistry
2. Regulation of Metabolism
3. Physiopathology of Obesity
4. Neurodegenerative Diseases, Addiction and Neuroinflammation
5. Drug Addiction and Learning
6. Nutrition and Food Science
7. Biotechnology in Plant Products
8. Pharmaceutical Development - School of Industrial Pharmacy
9. Centre of Metabolomics and Bioanalysis (CEMBIO)
10. Drug Design and Synthesis
11. Organometallics Chemistry
12. ESYMAT
13. Diagnostics of Laser Plasmas
14. Neuro-Oncology

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
1. **Group leader:** Emilio Herrera  

2. **Group members:** Encarnación Amusquivar, Henar Ortega-Senovilla, Clara Sanchez-Blanco

3. **Research lines:** Short- and long-term on offspring of dietary fatty acids during pregnancy

4. **Selected publications:**

5. **Funding:** Grants from Fundación Ramón Areces to Dr. E. Herrera and from University San Pablo CEU to E. Amusquivar

6. **Former Erasmus students hosted:** Susanne Schiffner (Germany), Jamie Clayton (UK), Joana (Portugal) and Steven Li (UK)

7. **Requisites for Erasmus student’s placements:**
   a. Duration of the placement: 6-12 months
   b. Max. number of students hosted per year: 1
1. **Group leader:** Pilar Ramos Álvarez  
   ([http://www.researchgate.net/profile/M_de_Pilar_Ramos_Alvez](http://www.researchgate.net/profile/M_de_Pilar_Ramos_Alvez))

2. **Group members:** Dr. Marta Viana Arribas, Dr. Julio Sevillano Fernández, Dr. Judith Cacho, Dr. María Haro García, Dr. María Limones Cornejo, Dr. Jimena Pita Santibáñez, Dr. María Gracia Sánchez Alonso, Dr. Isabel Sánchez-Vera Gómez-Trelles, Dr. Martín Alcalá Díaz-Mor, Mónica Díez-Hochleitner (PhD. student)

3. **Research lines:** Molecular mechanism of insulin resistance in normal and pathological gestation/ Molecular basis of obesity/ Fetal programming, placental function and fetal growth/ Oxidative stress and intrauterine development/ Role of inflammation and oxidative stress in age-associated hormonal and metabolic changes/ Matrix remodelling and insulin signalling

4. **Selected publications:**
   - *Vitamin E reduces adipose tissue fibrosis, inflammation, oxidative stress and improves metabolic profile in obesity.* Martín Alcalá, Isabel Sánchez-Vera, Julio Sevillano, Laura Herrero, Dolors Serra, M. Pilar Ramos, Marta Viana. *Obesity* 23(8): 1598-606, 2015
   - Genetic inactivation of midkine modulates behavioural responses to ethanol possibly by enhancing GABA(A) receptor sensitivity to GABA(A) acting drugs. Marta Vicente-Rodríguez, Carmen Pérez-García, Marcel Ferrer-Alcón, María Uribarri, María G. Sánchez-Alonso, María P. Ramos and Gonzalo Herradón. *Behavioural Brain Research* 274, 258-263, 2014

5. **Funding:** This group is funded by public and private grants: Ministry of Science and Innovation, Programas de I+D en Biomedicina (Comunidad Autónoma de Madrid) and Universidad San Pablo-CEU

6. **Former Erasmus students hosted:** Alexandra Poxleitner (Univ. Regensburg, Germany), Jessi Agostinni (Univ. Pisa, Italy)

7. **Requisites for Erasmus students placements:**
   - a. Duration of the placement: 6-12 months
   - b. Max. number of students hosted per year: 1
1. **Group leader:** Mariano Ruiz Gayo  
   (http://www.researchgate.net/profile/Mariano_Ruiz-Gayo)

2. **Group members:** Victoria Cano, Beatriz Merino

3. **Research lines/s:** Physiopathology of Obesity

4. **Selected publications:**

5. **Funding:** Ministerio de Economía y Competitividad. Fundación Universitaria San Pablo-CEU

6. **Former Erasmus students hosted:** Alessandra Blonda (Univ. of Lovaina, Belgium), Giorgia Parisella (Univ. of Rome, Italy) and Federica Neri (Univ. of Rome, Italy)

7. **Requisites for Erasmus student’s placements:**
   a. Duration of the placement : 4-12 months  
   b. Max. number of students hosted per year: 2
Neurodegenerative Diseases, Addiction and Neuroinflammation

1. **Group leader**: Gonzalo Herradón
   (http://www.researcherid.com/rid/C-8305-2012)

2. **Group members**: Carmen Pérez García, Esther Gramage Caro, Marta Vicente Rodríguez, Rosalía Fernández Calle

3. **Research lines/s**: Neurodegenerative diseases, addiction, neuroinflammation

4. **Selected publications**:
   - Phosphoproteomic analysis of the striatum from pleiotrophin knockout and midkine knockout mice treated with cocaine reveals regulation of oxidative stress-related proteins potentially underlying cocaine-induced neurotoxicity and neurodegeneration. Esther Gramage, Marta Vicente-Rodríguez, Gonzalo Herradón, Carmen Pérez-García. Toxicology, 314 (2013) 166-173


6. **Former Erasmus students hosted**: Priyah Ramanah (Univ. Surrey, UK); Dinah Sakir (King’s College, UK); Rhian-Marie Ford (Univ. Surrey, UK); Alessia Putelli (Univ. Genova, Italy)

7. **Requisites for Erasmus student’s placements**:
   a. Duration of the placement: 3-9 months
   b. Max. number of students hosted per year: 2

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Drug Addiction and Learning

1. **Group leader:** Nuria del Olmo  

2. **Group members:** Lidia Morales

3. **Research lines/s:** Drug addiction, learning and memory and synaptic plasticity

4. **Selected publications:**

5. **Funding:** Plan Nacional sobre Drogas, Ministerio de Sanidad, Servicios Sociales e Igualdad

6. **Former Erasmus students hosted:** Sara Prakash (Univ. Tubingen, Germany); Stefani Magallahes (Univ. Sao Paulo, Brasil); Daniella Ruggieri (Univ. Roma "La Sapienza, Italy) and Popat (King’s College, UK)

7. **Requisites for Erasmus students placements:**
   a. Duration of the placement: 4-9 months
   b. Max. number of students hosted per year: 1
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**Nutrition and Food Science**

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

2. **Group members:** Elena Alonso Aperte, PhD, Natalia Úbeda Martín, PhD, María Achón y Tuñón, PhD, Ángela García González, MD, Teresa Partearroyo Cediel, PhD, Purificación González González, PhD, Ana Montero Bravo, PhD, Lourdes Samaniego Vaesken, PhD, Esther Carrera Puerta, PhD, Violeta Fajardo Martín, PhD, Elena Sánchez Campayo, María Serrano Iglesias

3. **Research lines:**
   - New Functions of folic acid in relation to health and disease prevention (prevention of neural tube defects, homocysteine regulation, colorectal cancer, hearing loss)/
   - 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

4. **Selected publications:**
   - Partearroyo T, Úbeda N, Montero A, Achón M, Varela-Moreiras G. Vitamin B(12) and folic acid imbalance modifies NK cytotoxicity, lymphocytes B and lymphoproliferation in aged rats. Nutrients. 2013 Nov 26; 5(12):4836-48

5. **Funding:** Fundación MAPFRE, BIOSEARCH AS, UNIVERSIDAD CEU SAN PABLO, Fundación Thao, Coca-Cola España

6. **Former Erasmus students hosted:** Clemens Egger (FH Joanneum, Austria); Katharina Holzer (FH Joanneum, Austria); Nadia Le Bon (Sup Biotech, France) and Floor Minnema (HVA Amsterdam, Netherlands)

7. **Requisites for Erasmus student's placements:**
   a. Duration of the placement: 3-9 months
   b. Max. number of students hosted per year: 2

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Biotechnology in Plant Products and Plant Microbe Interactions

1. **Group leader**: Javier Gutierrez Mañero

2. **Group members**: Dr. Beatriz Ramos-Solano, Dr. Jose Antonio Lucas, Dr. Ana García-Villaraco
   Predoctoral students: Alfonso Bonilla, Enrique Gutiérrez

3. **Research lines**:
   - **Sustainable agriculture**. Study of Plant growth promoting rhizobacteria as biofertilizers and enhancers of plant’s defensive metabolism. Increasing productivity in low yield areas (salt). Evaluation of ecological consequences. Field trials in tomato, rice, bean, corn
   - **Metagenomics**. Isolation of soil rhizosphere bacterial genes for different purposes (antibiotic production, enzymes...). Bacterial communication “quorum sensing”

4. **Selected publications**:

5. **Funding**: Contracts with pharmaceutical industries, contracts with agrochemical industries, national funds, USP-CEU grants


7. **Requisites for Erasmus student’s placements**:
   a. Duration of placement: preferable annual (9-10 months); mínimum semester (4 months)
   b. Maximum number of placements: 3 anual (3 studens x 1 year) or 6 semestral 3 students x 4 months

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Pharmaceutical Development - School of Industrial Pharmacy

1. **Group leader**: Luis Alberto del Río

2. **Group members**: Carmen Trives and Nuria Salazar

3. **Research lines**: Pharmaceutical development of Oral Forms/ Quality Assurance in agreed collaboration with Spanish Association of Industrial Pharmacists (AEFI)/ Cosmetics in agreed collaboration with National Association of Cosmetics Laboratories (STANPA)/ Pharmaceutical Compounding in agreed collaboration with Spanish Association of Compounder Pharmacists (AEF2)

   The School of Industrial Pharmacy is regulated by The Spanish Ministries of Education and Health within the framework of the specialized formation for pharmacists. It is approved by national resolution and contest. It maintains collaboration with more than 50 experts from industry, regulatory and academics and organizes periodically professional events

4. **Selected publications**:
   - del Río LA, y Trives; Patente española ES 2 357 209 B1 (26.V.2009): Composición farmacéutica sólida a base de famotidina contra la hipersecrección gástrica y otras enfermedades relacionadas, con mayor eficacia sinérgica y más rápida actuación
   - del Río LA, Pérez M, Trives C y Salazar N; Patente española ES 2 316 308 B1 (30.IV.2008): Medicamento a base de Metronidazol y Ácido azelaico para el tratamiento por vía tópica de la enfermedad Rosácea de mejor asimilación, y procedimientos de preparación

5. **Funding**: The School of Industrial Pharmacy manages own annual budget for teaching activities coming from its pharmacist fees and retains an amount for research projects and necessities

6. **Former Erasmus students hosted**: Thomas Pfeifle (Tübingen Universität, Germany)

7. **Requisites for Erasmus student’s placements**:
   - a. Duration of the placement: 2 - 9 months
   - b. Max. number of students hosted per year: 1

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1. **Group leader:** Coral Barbas  
   (http://www.researcherid.com/rid/K-3871-2014)

2. **Group members:**  
   **Lecturers:** Antonia García; Ana Gradillas, Joanna Godzien; Mª Ángeles López;  
   Mª Paz Lorenzo; Mª Paz Martínez; Francisco Javier Rupérez; Mª Fernanda Rey-Stolle.  
   **Postdoctoral researchers:** Emily G. Armitag, Danuta Dudzik, David Rojo.  
   **Predoctoral researchers:** Carolina González, Alejandro B. Lanzón, Annalaura Mastrangelo.  
   **Technician:** Vanesa Alonso

3. **Research lines:** Metabolomic Platform based on mass spectrometry coupled to chromatographic techniques (LC&GC&CE) and Bioanalysis capabilities collaborating in research projects with other groups or with pharmaceutical and biotechnological industries

4. **Selected publications:**  

5. **Funding:** Contracts with industries, national and international research grants, USP-CEU grants

6. **Former Erasmus students hosted (last two years):** Victor Truong (Kings College London, UK); Rockson Yeboah (Univ. Paris Descartes, France); Sara Argentieri and Gaya Romeo (Univ. Modena e Reggio Emilia); Alice Demelenne (Univ. Liege, Belgium); Laura Ravanetti and Giulia Fava (Univ. Modena e Reggio Emilia, Italy); Natalia Laszcz and Simon Macioszek (Medical Univ. Gdansk, Poland)

7. **Requisites for Erasmus student’s placements:**  
   a. Duration of the placement: 6-12 months  
   b. Max. number of students hosted per year: 6
1. **Group leaders:** Beatriz de Pascual-Teresa (http://www.researcherid.com/rid/J-4318-2012)  
Ana Ramos (http://www.researcherid.com/rid/E-8740-2012)

2. **Group members:** José María Zapico, Claire Coderch, Miryam Pastor

3. **Research lines:**
   - Design, synthesis and biological evaluation of anticancer agents. We work with different drug targets: Metalloproteinases (MMP2, MMP9), protein kinase CK2, histone deacetylases (HDAC), and Estrogen Receptor, among others
   - Identification of small molecules capable of binding and stimulating CIRP (cold inducible RNA-binding protein)
   - Design and synthesis of small molecule inhibitors of PTPRZ1 (Protein Tyrosine-Phosphatase Receptor Z1) as a novel therapeutic strategy for Parkinson’s disease (PD)

4. **Selected publications:**
   - Design and synthesis of potent hydroxamate inhibitors with increased selectivity within the gelatinase family. José María Zapico, Anna Puckowska, Kamila Filipiak, Claire Coderch, Beatriz de Pascual-Teresa, Ana Ramos. Organic and Biomolecular Chemistry 2015, 13, 142–156. DOI: 10.1039/C4OB01516A
   - Exploring the dynamics of the S1’ pocket in the design of selective, small molecule inhibitors. Benjamin Fabre, Ana Ramos, Beatriz de Pascual-Teresa. Targeting Matrix Metalloproteinases: Journal of Medicinal Chemistry 2014, 57, 10205-10219. DOI: 10.1021/jm500505f

5. **Funding:** Ministerio de Economía y Competitividad. Department of Defense USA (DoD, US)

6. **Former Erasmus students hosted:** Sunpal Sembi (King’s College London, UK); Rosaria La Barbera (Univ. Pavia, Italy); Arandeep Hayer (Univ. Cardiff, UK) and Rosa Rubino (Univ. Bari, Italy)

7. **Requisites for Erasmus student’s placements:**
   a. Duration of the placement : 3-9 months
   b. Max. number of students hosted per year: 3

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**Drug Design and Synthesis**

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Organometallics Chemistry

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

2. **Group members**: Gema Domínguez, Alberto López

3. **Research lines**:
   - Synthesis of carbohydrate derivatives with paramagnetic ions for 3D studies by NMR including molecular recognition
   - New non-metathetic reactions of ruthenium carbenes
   - Pauson-Khand reactions in microreactors (flow chemistry)

4. **Selected publications**:

5. **Funding**: Ministerio de Economía y Competitividad

6. **Requisites for Erasmus student’s placements**:
   a. Duration of the placement: 3-10 months
   b. Max. number of students hosted per year: 2
1. **Group leaders:** Flaviano García-Alvarado  
   (http://www.researcherid.com/rid/B-5071-2011)

2. **Group members:** Ulises Amador, Alois Kuhn, M. Teresa Azcondo; Mercedes Yuste, Juan Carlos Pérez Flores, Pilar Díaz, David Ortiz, Alejandro Pérez

3. **Research lines:** The group is developing two research lines on inorganic energy materials aiming for two energy efficient and cost effective devices; Lithium Batteries on one hand and Solid Oxide Fuel Cells on the other. Both research lines involve the synthesis, characterization and assessment of performances of inorganic materials that may be of use in the aforementioned devices. In particular the following tasks are usually carried out:
   - Synthesis of inorganic materials by ceramic, wet and soft chemistry routes
   - Chemical and structural characterization of materials by X-ray, electron and neutron diffraction, transmission and scanning electron microscopy, thermal analysis
   - Electrical characterization by ac and dc methods (impedance spectroscopy, dc four probe measurements, ion blocking)
   - Electrochemical characterization (cyclic voltammetry, chronoamperometry, PITT, GIT, etc.)
   - Assembly of Lithium coin cells (CR2032), pouch cells and Solid Oxide Fuel Cells
   - Prototyping of lithium batteries. Performances evaluation of cells (power rate, cycling behaviour, polarization tests, etc.)

4. **Selected publications:**

5. **Funding:** Airbus Space and Defence; Ministerio de Economía y Competitividad (Spanish Government; Comunidad Madrid (Local Governments of Madrid)

6. **Former Erasmus students hosted:** Katarzyna Kołodzińska, Paulina German

7. **Requisites for Erasmus student’s placements:**
   a. Duration of the placement: 6-12 months
   b. Max. number of students hosted per year: 2

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Diagnostics of Laser Plasmas

1. **Group leaders**: Carlos Aragón Garbizu

2. **Group members**: Jose Antonio Aguilera Andoaga, Javier Manrique Rosel

3. **Research lines**: LIBS: Diagnostics of laser plasmas to the determination of atomic data, in particular of Transition Probabilities and Stark parameters

4. **Selected publications**:
   - Measurement of Stark widths and shifts of Ca II spectral lines. *J. A. Aguilera; C. Aragón; J. Manrique*. MNRAS **2014**, 444, 1854-1858
   - Experimental Stark widths and shifts of Cr II spectral lines. *J. A. Aguilera; C. Aragón; J. Manrique*. MNRAS **2014**, 438, 841-845

5. **Funding**: Ministerio de Ciencia e Innovación

6. **Requisites for Erasmus student’s placements**:
   - Duration of the placement: 3-9 months
   - Max. number of students hosted per year: 1
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1. **Group leader:** Angel Ayuso Sacido
   (http://www.researchgate.net/profile/Angel_Ayuso-Sacido)

2. **Group members:** 5

3. **Research lines:** Neuro-Oncology, cancer stem cells biology and biomarkers, Nanomedicine

4. **Selected publications:**

5. **Funding:** Ministerio de Economía y Competitividad

6. **Former Erasmus students hosted:** Clare Stokes (King’s College, UK)

7. **Requisites for Erasmus student’s placements:**
   a. Duration of the placement : 6-12 months
   b. Max. number of students hosted per year: 1

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