

Leyre Pernaute Lau

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Date of birth: 29/03/1994



EDUCATION

Master's Degree Microbiology and Parasitology (Research and Development) – Universidad Complutense de Madrid, Spain (2016-2017)

Biology Bachelor's Degree – Universidad de Salamanca, Spain (2012 – 2016)

- *Erasmus scholarship* – Maynooth University, Ireland (2015-2016)

LANGUAGES

Spanish native

English level B2 – Official School of Languages of Salamanca (2016)

Vasque level B1 – Official School of Languages of Navarra (2012)

WORK EXPERIENCE

PhD Student (FCT Fellowship)- University of Lisbon & Karolinska Institutet (March 2018 - Present)

“Resistance to antimalarials - a pharmacogenomics approach for both parasite and human host”

- Collaboration at the Molecular Medicine Institute (iMM): Sept 2018 - Dec 2018

Research Fellowship (JAE Intro)- Centro de Biología Molecular Severo Ochoa, CSIC (Sep - Dec 2017)

“Interactome of the receptor SLAMF1 with Trypanosoma cruzi”

Western Blot, Protein quantification and detection methods, Embryonic and mammalian cells transfections, Immunoprecipitation, Molecular analysis software applications

Assistant Research Fellowship (MECD) – Department of Parasitology, UCM (Nov 2016 - Jul 2017)

“Determination of the synergistic and pharmacological target of the combined use of different compounds against human urogenital trichomonosis”

Pharmacological screening, Maintenance and conservation of mammalian isolates and cell lines, Spectrofluorometry, Cytotoxicity assays.

SWI Teacher Assistant (Small World Initiative) - Universidad Complutense de Madrid (Nov 2016 - Apr 2017)

Innovative program that encourages students to pursue careers in science while addressing a worldwide health threat, the diminishing supply of effective antibiotics.

Design and organization of theoretical classes, Oral presentations on topics related to microbiology, laboratory work and antibiotic resistance, Planning and development of a real experiment with the students of the educational centers, Scientific dissemination and awareness about the good use of antimicrobials.

Practical Work - Instituto de Recursos Naturales y Agrobiología de Salamanca, CSIC (Jan-March 2016)

"Reverse vaccinology applied to the identification of vaccine candidates in the vector ticks of African Swine Fever, *Ornithodoros* sp."

Quantification of nucleic acids by spectrometry, Optimization and development of PCR reactions, Electrophoresis in agarose gels, Enzymatic ligation and restriction reactions, Transformation of cells, Purification of Plasmids and PCR Products, Creation and selection of colonies, Use of molecular analysis software applications.

CONFERENCES AND CONGRESS

- Hands-on Workshop on Epithelial Systems: Physiology and Pathophysiology (23-27 July 2018)
- Hands-on Workshop on High-Throughput Microscopy (9-13 July 2018)
- Workshop on Integrative Approaches in Neurodegeneration (21-23 June 2018)
- 1st Molecules Medicinal Chemistry Symposium (8 Sep 2017)
 - Poster: "Trichomonacidal Activity of 3,3'-Diindolylmethane (DIM) Is Additive to Metronidazole (MTZ) *In Vitro*, Supporting Future Oral/Topical Use"
- V Tropical Medicine Update Day (27 Apr 2017)
- International Malaria Day (25 Apr 2017)
- XII Complutense Conferences, XI National Congress Research Undergraduate Students in Health, Sciences and XVI Congress Veterinary and Biomedical Sciences (20-24 Apr 2017)
 - Oral exposition: "Development of new antibiotics: a different approach"
- Scientific Sessions of the Faculty of Biology and Biotechnology of Salamanca (2012-2016)

PUBICATIONS

- A. Ibáñez-Escribano, L. Pernaute Lau, JJ. Nogal-Ruiz, A. Gómez-Barrio, J.A. Escario and M. A. Zeligs. Trichomonacidal Activity of 3,3'-Diindolylmethane (DIM) Is Additive to Metronidazole (MTZ) *In Vitro*, Supporting Future Oral/Topical Use. *Proceedings* **2017**, 1(6), 645; doi:[10.3390/proceedings1060645](https://doi.org/10.3390/proceedings1060645)
- L. Pernaute Lau and V. Jimenez Cid. Small World Initiative: educando para combatir la resistencia a los antibióticos. *PharmaTech* <https://www.pharmatech.es/articulos/20171107/small-world-initiative#.Wh-0HGjWzIV>
- L. Pernaute Lau. Descubrimiento de nuevos antibióticos: un nuevo enfoque. *Psychologia Latina - The Spanish Journal of Psychology* ISSN electrónico 2171-6609 (to be determined)