



CEU

Universidad  
San Pablo

December 2019-February 2020

# CEMBIO News

## Issue nº 2

Dear CEMBIO Members,

As promised, you have here the second Newsletter showcasing some of our activities along the last trimester. Among them, I would like to point out a good harvest of international doctorates: Cecilia Barbas, Alberto Gil and David Obeso. Congratulations!! Thank you very much for your scientific and personal contribution to CEMBIO life. We do hope that this experience will benefit your career for ever, you have achieved the top in your academic degrees.

Still, we have a good set of ongoing PhD students, for you my recommendation in the words of the Greek poet Cavafy: "Keep Ithaka always in your mind. / Arriving there is what you're destined for. / But don't hurry the journey at all." In other words, never forget your goal, but enjoy the journey, because the journey is more important than the arrival.

Coral



### Spotlight

**Congratulations to Cecilia Barbas, Alberto Gil and David Obeso for obtaining their PhD!**



### Events, Activities & Seminars

On 4 February – World Cancer Day – the European Commission started its outreach on Europe's Cancer Plan at an event in the European Parliament in Brussels, supported by the MEPs Against Cancer Interest Group

**Participant:** Raquel Melero Fernández de Mera. Post-doctoral researcher. Marie Curie Fellowship



**Talks** I Jornadas Interuniversitarias de interacción y comunicación de investigadores CEU. 31<sup>st</sup> January 2020. Escuela Politécnica Superior (EPS), Montepriño Campus. USP-CEU

**Speakers:** Coral Barbas and Raquel Melero Fernández de Mera



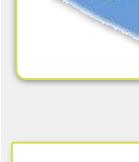
Metabolomics Introduction

CEMBIO, Universidad CEU San Pablo, Madrid. 29<sup>th</sup> January, 2020



**Participants:** Students from Máster Universitario en Bioquímica, Biología Molecular y Biomedicina, Universidad Complutense de Madrid

Máster Universitario en Bioquímica, Biología Molecular y Biomedicina



### Networks

CEMBIO participates in NOVELREN-CM, a research network funded by the Community of Madrid

The consortium is composed of 4 research groups: CSIC (FIBROREN), Univ. de Alcalá (QUIMIREN), Univ. Autónoma de Madrid (INMUREN), Fundación Hospital Príncipe de Asturias (CLINIREN), **Univ. San Pablo CEU (METAREN)** and laboratory nº 182 of the "Parque Científico de la Comunidad de Madrid".

(Ref. S2017/BMD-3751)



CEMBIO participates as a lab in the Project:

**Mecanismos moleculares y comunicación intertisular en la resistencia a la insulina (MOIR2)**

The consortium is composed of 4 research groups and 2 labs:

Univ. Rey Juan Carlos (IPOBETA), Univ. Complutense (ENMEPER) y (BETABRAIN), Univ. CEU San Pablo (GESTOBES), CNIC (DIABEHEART), Instituto de Investigaciones Biomédicas "Alberto Sols" (HEPIR), junto con el laboratorio de genética de la Univ. Rey Juan Carlos (REDLAB 170) y el **laboratorio de Metabolómica de la Univ. San Pablo CEU (REDLAB 260)**

CEMBIO participates as a member in the Metabolomics Core Partnership Program



EXCLUSIVE PERKS,  
UNLIMITED  
POSSIBILITIES



### Congresses

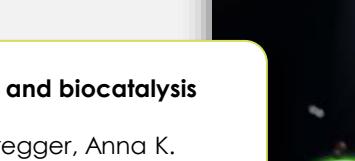


18<sup>th</sup> Immunology Winter School on Basic Immunology Research in Allergy and Clinical Immunology

Chamonix, France, 23rd to 26th January, 2020

Oral Communication: Identification of Severity-Related Biomarkers in HDM-Allergic Asthma  
Authors: **Maria Isabel Delgado-Dolset**, J. Rodríguez-Coira, A. Villaseñor, C. Barbas, T. Carrillo, D. Barber, M.M Escribese

Poster: Severe olive pollen allergic patients present a distinctive T and ILC profile  
Authors: **Rodríguez-Coira Juan**; Sánchez-Solares J; Gómez-Casado C; Villaseñor A; Saiz V; Moreno-Aguilar C; Radzikowska U; Akdis CA; Sokolowska M; Barber D



11th European RFMF Metabomeeting

Toulouse, France, 22nd to 24th January, 2020

Poster: CEU MASS MEDIATOR: The tool to annotate compounds in CE-MS for metabolomics  
Authors: **Alberto Gil-de-la-Fuente**; M. Mamani-Huanca; V. González-Ruiz; S. Codesido; A. López-González; A. Gradillas; S. Rudaz; A. Otero; C. Barbas



### Publications

Genetically engineered proteins with two active sites for enhanced biocatalysis and synergistic chemo- and biocatalysis

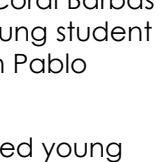
Sandra Alonso, Gerard Santiago, Isabel Cea-Rama, Laura Fernandez-Lopez, Cristina Coscolín, Jan Modregger, Anna K. Ressmann, Mónica Martínez-Martínez, Helena Marrero, Rafael Bargiela, Marcos Pita, Jose L. Gonzalez-Alfonso, Manon L. Briand, **David Rojo, Coral Barbas**, Francisco J. Plou, Peter N. Golyshev, Patrick Shahgaldian, Julia Sanz-Aparicio, Víctor Guarner and Manuel Ferrer. **Nature Catalysis**. October 2019.

DOI: 10.1038/s41929-019-0394-4

Metabolomic Profile of BALB/c Macrophages Infected with Leishmania amazonensis: Deciphering L-Arginine Metabolism

Sandra Marcia Muxel, **Maricruz Mamani-Huanca**, Juliana Ida Aoki, Ricardo Andrade Zampieri, Lucile María Floeter-Winter, Ángeles López-González and **Coral Barbas**. **Int J Mol Sci**. December. 2019.

DOI: 10.3390/ijms20246248



The Orthosteric and Allosteric Druggable Pockets in Rod Opsin

Volume 20 • Issue 24 | December 2019

MDPI [mdpi.com/journal/ijms](http://mdpi.com/journal/ijms) ISSN 1422-0067

The CEMBIO was visited by the following friends, collaborators and students:

- **Blanca Montero:** Rotación externa Especialidad Bioquímica Clínica, QIR, Hospital Universitario La Paz.
- **Natalia del Río:** TFM, Máster Interuniversitario en Descubrimiento de Fármacos
- **Tania Sánchez:** TFM, Máster Interuniversitario en Descubrimiento de Fármacos
- **Vittoria Aureli:** from Università Degli Studi Di Perugia (Erasmus Program)
- **Gabriel Moreno:** student from bilingual degree in Pharmacy & Biotechnology. (USP-CEU)
- **Eva Calvo de Castro:** student from bilingual degree in Pharmacy & Biotechnology. (USP-CEU)
- **Laura Twomey:** TFG, Biotechnology student from Universidad Politécnica de Madrid (UPM).
- **Carmen Velasco:** TFG, student from bilingual degree in Pharmacy & Biotechnology. (USP-CEU)

"La Inmaculada Concepción" Awards to the best Bachelor's Thesis of the Faculty of Pharmacy

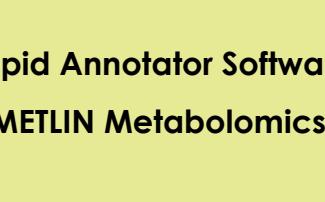
2<sup>nd</sup> award: **Luis Valiente Martínez-Sicluna**

Title: "Optimización y validación de un método por electroforesis capilar con detección inducida por láser (CE-LIF) para el análisis quiral y cuantificación absoluta de tres aminoácidos, L y D-Asp, L y D-Glu y L y D-Ser, aplicación a líneas celulares de osteocitos y osteoblastos"

Directors: **Dr. Mª Paz Lorenzo** and **Dr. Antonia García**.

**Coral Barbas**

was elected President of the Board of the Royal Spanish Society of Chemistry (Real Sociedad Española de Química), in the Madrid section.



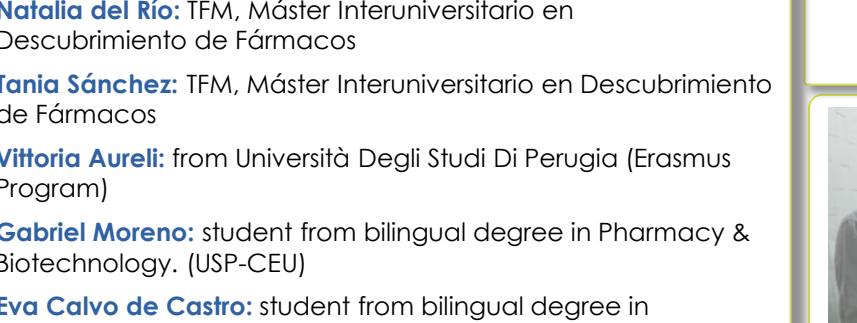
Our colleague **Elisa Zubeldia** has participated as a volunteer in Makeni, Sierra Leone in January

She has also contributed with a science dissemination article about allergy at the ARADYAL network webpage. Check it out!

[http://aradyal.org/crear\\_noticias/que-sabes-sobre-la-alergia/](http://aradyal.org/crear_noticias/que-sabes-sobre-la-alergia/)

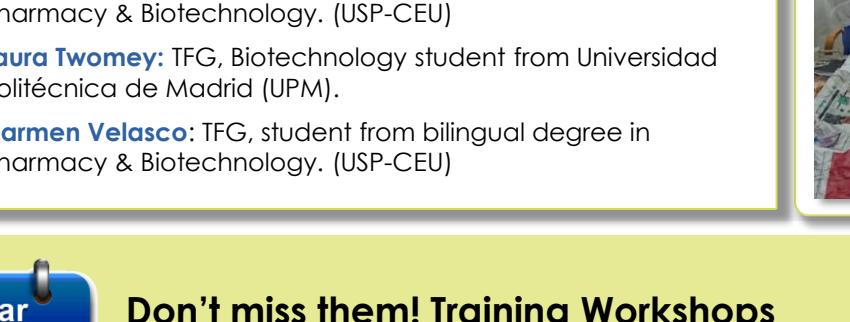


### Members Corner



✓ Interview between our renowned colleague, Professor **Coral Barbas** and Clara Reyero, young student from Colegio CEU San Pablo Montepriño.

✓ Raquel Melero lectured young students at I.E.S. La Melva (Elda).



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### Don't miss them! Training Workshops

- ✓ Miguel Fernández: **Agilent MassHunter Lipid Annotator Software:** **March 5th**
- ✓ Carolina González: **Agilent MassHunter METLIN Metabolomics Database and Library:** **March 12<sup>th</sup>**
- ✓ Stay tuned for more, coming soon!



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Send us your suggestions, events, photos, contents and ideas to improve this newsletter!

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