

Programme

9:15 WELCOME Prof. Pablo Vera

9:30 h RESEARCH INSTITUTIONS I

Chair: Javier Agustí

9:30 h Borja Belda-Palazón (Instituto Gulbenkian de Ciência - Portugal). Growth balance regulation by SnRK1 under ABA-stress conditions.

10:00 h Sofia Otero (Sainsbury Lab, Cambridge University - UK). Circling the sieve element: understanding the phloem poles at single cell resolution.

10:30 h Ricardo Ramírez-González (John Innes Centre - UK). A computer scientist lost in wheat genetics.

11:00 h COFFEE BREAK

11:30 h RESEARCH INSTITUTIONS II

Chair: Alberto Carbonell

11:30 h Veronica Gonzalez-Doblas (INRA Centre de Versailles-Grignon - France). Small peptides in plant development and stress response.

12:00 h Scott Hayes (Centro Nacional de Biotecnología - Spain). Soil Salinity Inhibits Plant Shade-Avoidance.

12:30 h Anahit Galstyan (Max Planck Institute for Plant Breeding Research - Germany). Dehiscence zone as a developmental timer of explosive pod shatter in *Cardamine hirsuta*.

13:00 h LUNCH BREAK

14:30 h PRIVATE COMPANIES

Chair: Jorge Lozano-Juste

14:30 h Luis Matías (TricoPharming - Spain). From *TricoPharmingto Artemnia*. From medicinal trichomes research to business.

15:00 h Vicente Barberá (Viromii - Spain). What is the impact of my research in society? Early considerations for a more successful technology transfer.

15:30 h CAREERS IN SCIENCE ROUND TABLE: Academia vs. Industry

Chair: Reyes Benlloch

Scott Hayes (Centro Nacional de Biotecnología)

Luis Matías (TricoPharming)

Vicente Barberá (Viromii)

Maite Sanmartín (IBMCP-CSIC)

Nuria Andrés-Colás (IBMCP-UPV)

17:00- 18:00 h Happy hour

Organizing committee

Javier Agustí

Nuria Andrés-Colás

Reyes Benlloch

Alberto Carbonell

Jorge Lozano-Juste



2nd IBMCP YOUNG RESEARCHERS SYMPOSIUM

11 November 2019

Red Cube Hall – CPI – UPV
Valencia



11 November 2019



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Speakers

RESEARCH INSTITUTIONS



Borja Belda-Palazón

I started my PhD in 2010 under the supervision of Dr. Ferrando, to understand how the hyposination of eIF5A influences plants growth and development. In

2015, I started my first postdoctoral training in Professor Rodríguez lab where I acquired a vast experience on ABA signalling both at the cellular and molecular levels. In 2018, I started my second postdoctoral stay in the laboratory of Dr. Baena-González in the Instituto Gulbenkian de Ciência (Portugal) with the aim of uncovering the mechanisms by which SnRK1 affects ABA signalling and to investigate the relevance of the ABA-SnRK1 crosstalk for controlling growth in Arabidopsis.



Sofia Otero

During my PhD I worked on epigenetics, particularly on the histone H3 family in Arabidopsis, in the lab of Crisanto Gutierrez. I have been a postdoc in the

Helariutta lab since June 2015, where I study phloem development in the Arabidopsis root. I am particularly interested in understanding the identity of the cells that surround the sieve element, the pipe that transports the nutrients from green leaves to non-photosynthetic tissues. To pursue this objective, I received a Herchel Smith Fellowship in 2017. Besides, I am interested in understanding the biogenesis of plasmodesmata. I am a college lecturer at Newnham College.



Scott Hayes

I did my PhD at the University of Bristol (UK) with Kerry Franklin, studying the integration between shade, temperature and UV-B signalling in plants. I then took

an EMBO fellowship to work with Ronald Pierik at Utrecht University (NL), where investigated the inhibition of shade-avoidance by soil salinity (my talk today). Currently I'm a Marie Curie Fellow in Salomé Prat's group at CNB-CSIC Madrid, working on how temperature effects the circadian clock.



Verónica G. Doblás

I did my PhD in the University of Málaga under the supervision of Miguel Ángel Botella studying plant tolerance to abiotic stress. In 2013, I joined Niko

Geldner's group in Lausanne (Switzerland), where I identified two small peptides working as Casparian strip surveillance system. After that, I obtained a prestigious fellowship from Swiss National Science Foundation that allowed me to move to the lab of Herman Höfte in Versailles (France) in 2018, with the objective of increasing my knowledge on peptides and cell wall. An exciting challenge for the future is to uncover small peptides in species with agronomical interest.



Ricardo Ramírez-González

I did my PhD in the Earlham Institute and the John Innes Centre (JIC) on bioinformatics methods to analyse high-throughput sequencing data. I started working with a

mapping population to find genetic markers for a resistance gene Yr15 using RNA-Seq, that lead to the development of PolyMarker, a tool to design genetic markers on polyploid organisms and an expression browser. I'm currently doing my PostDoc in the Crop Genetics at JIC. I continue my work on wheat genomics methods to identify deletions with low coverage sequencing data, genotypic diversity in breeding lines, and how to make the data public.



Anahit Galstyan

I am a plant geneticist, fascinated by the dynamic gene regulatory networks underlying developmental plasticity. I did my Ph.D. in Dr. Jaime Martínez-García's

lab (CRAG), where I have studied one of the beautiful examples in plant developmental plasticity - shade avoidance syndrome. In 2011, I joined Dr. Jennifer Nemhauser's lab (UW) as a postdoc, where I specialized in system biology to investigate interacting hormone signaling networks. I am currently an Alexander von Humboldt fellow in Dr. Angela Hay's lab (MPIPZ). I study the evolutionary changes in gene regulatory networks that gave rise to morphological innovations in seed dispersal strategies.



Maite Sanmartín

My initial research interest focused on understanding how plants respond to adverse environments. During my PhD at IMBB (Greece), I studied in melon the role of

ascorbate oxidase, with an unknown function at the time, which resulted to be important in controlling redox homeostasis. Next, I joined the CNB in Spain. During this postdoctoral period, I first studied the regulation of JA biosynthesis, and later focused on vacuolar trafficking. As a RyC researcher, together with Dr. Enrique Rojo, we

initiated a new line to unravel the mechanisms controlling cell differentiation, research that I follow now at the IBMCP.



Nuria Andrés-Colás

I am a biochemist focused on plant molecular biology. I did my PhD on Cu homeostasis in Arabidopsis at the University of Valencia, participating in teaching tasks.

After taking experience at biotech companies, I did my first post-doc on transcriptional regulators in Arabidopsis at the University of Valencia. I decided to do a second post-doc at the University of Ghent in Belgium focused on RNA editing, participating also in teaching tasks. I came back to Spain and got my current position as assistant professor at the Biotechnology department of the UPV, performing my research at the IBMCP.

PRIVATE COMPANIES



Luis Matías

Bachelor's in Biochemistry by the University of Navarra. Postgraduate Diploma in Natural Products and Plant Biotechnology by the CIHEAM, Greece. PhD

in Plant Genetics at the University of Milan. Master's in International Health by Queen Margaret University, Edinburgh. Postdoctoral fellowship in Plant Biopharming at the CRAG, Barcelona. Principal Investigator of Sequentia Biotech. CEO & Co-founder of biotech Tricopharming Research. Science communicator at BigVanScience. Research topic in last 8 years: Plant Molecular Pharming with industrial applications.



Vicente Barberá

Educational background: BSc in Biotechnology (UPV, Spain), MBA in Pharma and Biotech businesses (ESAME Business school, Madrid), MMed in Business

Creation and Entrepreneurship in Biomedicine, Specialization in Intellectual Capital Management (Center for Intellectual Property education, University of Gothenburg, Sweden). Professional experience: Vicente has experience in pharmaceutical sales in the field of biomedicines (Eli Lilly & Co., Spain), Intellectual property and patent infringement in med-tech (Philips IP&S, The Netherlands) Innovation management and project management (LS-Advice, Sweden), entrepreneurship, technology transfer and business development consulting in the field of life-sciences (Viromii Innovation, Spain).