

XXV CNB Scientific Workshop

MONDAY, 18 December 2017

Session I, Chair: Fernando Rojo

10:00 Santos Mañes: Molecular and cellular networks in inflammation: Relevance in cancer and beyond

10:20 Carlos Oscar S. Sorzano: Image processing for Electron Microscopy: Advances and challenges ahead

10:40 Carlos Alonso: Addressing the demographical and adaptive history of *Arabidopsis thaliana* from genome sequences

11:00 Javier Tamames: A novel progressive clustering approach for discovering ecological networks

11.20h Break

Session II, Chair: Antonio Leyva

11:40 Mariano Esteban: Vaccine development for emerging human diseases

12:00 Daniel López: Bacterial lipids rafts; from the bench to the development of marketable applications

12:20 Yolanda Carrasco: New insights on B cell dynamics: implications in pathology

12:40 Luis Alberto Campos: Tuning energy barriers in protein folding

13:00h Lunch break

Session III, Chair: Hugh Reyburn

15:00 Carmen Castresana: Oxylipins: new players in old processes

15:20 Inés Antón: WIP, mutated p53 and YAP/TAZ co-ordinately control the oncogenic cascade that regulates proliferation and invasiveness of glioblastoma stem cells

15:40 José Luis Martínez: Determinism and stochasticity in the evolution of antibiotic resistance

Predocutorial Session I, Chair: Alejandro Asensio

16:00 Noelia Sofía de León (PI Marta Nieto): Talking to the other side: making brain conversations happen

16:15 Julene Madariaga Marcos (PI Fernando Moreno): Magnetic Tweezers and TIRF microscopy to study DNA:protein interactions

16:30 Andrés Ortigosa (PI Roberto Solano): Generation of pathogen resistant tomato plants by JAZ2 gene editing

17.00h Predocutorial Poster Session I

WORKSHOP

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TUESDAY, 19 December 2017

Session IV, Chair: Jose María Valpuesta

10:20 Juan José Sanz: Signalling pathways in development and regeneration

10:40 Juan Carlos Alonso: Barriers to horizontal gene transfer between bacterial species

11:00 Dimitri Balomenos: A novel role for p21 (WAF1) in protecting from excessive inflammatory responses by controlling mitochondrial activation and production of IFNs

11.20h Break

Session V, Chair: Juan José Sanz

11:40 Fernando Corrales: Translating genes into cellular functions by mass spectrometry

12:00 Carmen Simón: Antiviral resistance caused by artificial miRNAs and its effect on viral population

12:20 Juan Nogales: Systems Biotechnology group, updating microbial biotechnological approaches

12:40 Isabel Sola: Emerging human coronaviruses: contribution of small non-coding RNAs to pathogenesis and protection

13:00h Lunch break

Session VI, Chair: Florencio Pazos

15:00 Ana Cuenda: Novel signalling pathways in inflammation and infection

15:20 Jose Jesús Fernández: Visualization of subcellular architecture with 3D electron microscopy

15:40 Maite Sanmartín: Plants shed light on stem cell differentiation

Predocutorial Session II, Chair: Marcos Gragera

16:00 Alfonso Blázquez (PI Hugh Reyburn): Transmembranes: Where sensing and signals collide

16:15 Adriana Lucia-Sanz (PI Susanna Manrubia): Basics of multipartite genomes

16:30 Paula Blanco Torres (PI Jose Luis Martínez): Use of phenotype microarrays (BIOLOG) for the comprehensive analysis of multidrug resistance efflux pumps effectors

17.00h Predocutorial Poster Session II

WORKSHOP