

# XXII CNB Scientific Workshop

Tuesday, 16 December 2014

(Chair: Carmen Castresana)

**10:00 Luis Enjuanes:** Human coronaviruses: Pathogenesis and protection

**10:20 Maite Sanmartín:** A phosphate out of place leads development astray

**10:40 Dimitrios Balomenos:** Distinct molecules regulate normal and autoimmune memory T cell responses and reveal novel strategies for disease treatment

**11:00 José R. Castón:** Cryo-electron microscopy at atomic resolution of viral macromolecular machines

## Coffee break

(Chair: Carlos Martínez-A.)

**12:00 José L. Carrascosa:** X-ray cryo-microscopy: a new tool for structural and chemical analysis in cell biology

**12:20 Esteban Veiga:** Lymphocytes link adaptive and innate immunity

**12:40 Mario Mellado:** Unraveling receptor behaviour at the cell membrane

**13:00 Daniel López:** Exploring the existence of lipid rafts in bacteria

## Lunch

(Chair: José María Carazo)

**15:00 Miguel Vicente:** There and back again: the reassembly of the ring

**15:20 José Jesús Fernández:** Visualizing subcellular architecture in 3D with electron tomography

**15:40 Inés Antón:** Actin regulatory proteins in protrusive structures: from dendritic spines to invadopodia

**16:00 Javier Paz-Ares:** Plant phosphate sensing and beyond

# WORKSHOP

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(Chair: Víctor de Lorenzo)

**10:00 Carlos Pedrós-Alió:** Genes from the oceans: the case of proteorhodopsin

**10:20 Carlos Alonso Blanco:** Searching for genes involved in plant climatic adaptation: the case study of *Arabidopsis* in the Iberian Peninsula

**10:40 José Luis Martínez:** Metabolic compensation of fitness costs associated to the acquisition of antibiotic resistance

**11:00 Jacobo Aguirre:** Modelling evolution: Tipping points in the genomic composition of populations induced by environmental changes

## Coffee break

(Chair: Juan José Sanz)

**12:00 Mariano Esteban:** Poxvirus and vaccines

**12:20 Isabel Mérida:** Diacylglycerol kinases as pharmacological targets in cancer

**12:40 Juan Carlos Alonso:** ParAB partition dynamics in *Firmicutes*: nucleoid-bound ParA captures and tethers ParB-plasmid complexes

**13:00 Juan Antonio García:** Potyviral replication and host defence responses

## Lunch

(Chair: Fernando Rojo)

**15:00 Antonio Bernad:** Cardiac stem cells: do they exist?

**15:20 Carlos O. Sánchez-Sorzano:** Information processing: from structural biology through biostatistics to bioinformatics

**15:40 PhD student n° 1:** Poster Award n° 1

**15:50 PhD student n° 2:** Poster Award n° 2

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