

COVID-19 VIII Jornada de Bioinformàtica i Genòmica

Organitzada per:
Secció de Bioinformàtica i Genòmica de la SCB



PROGRAMA

Online conference
Zoom platform

14 de desembre de 2020

COMITÈ ORGANITZADOR:

Mario Cáceres (ICREA, UAB)
Roderic Guigó (CRG-UPF)

SUPPORT:

Mariàngels Gallego (SCB)
Maite Sánchez (SCB)

16:00 - 16:05 Wellcome and opening of the symposium

SESSION I. Bioinformatics and genomics of SARS-CoV-2

Chair: Eva Novoa (CRG-UPF)

- 16:05 - 16:25 **Invited Lecture: Iñaki Comas** (Instituto de Biomedicina de Valencia, IBV-CSIC). Genomic epidemiology of SARS-CoV-2 during the first and second wave in Spain.
- 16:25 - 16:40 **José Luis Villanueva-Cañas** (Hospital Clínic de Barcelona). ROBOCOV: An affordable open-source robotic platform for SARS-CoV-2 testing by RT-qPCR.
- 16:40 - 16:55 **Mauricio Moldes** (Centre for Genomic Regulation, CRG). A beacon in the ocean of SARS-CoV-2 data.
- 16:55 - 17:10 **Anna Delgado** (Centre for Genomic Regulation, CRG). Detection of RNA modifications in single-stranded viral RNA genomes using direct nanopore sequencing.
- 17:10 - 17:25 **Roc Farriol** (Barcelona Supercomputing Center, BSC). Neutralizing antibodies as a therapeutic avenue for COVID-19.

17:25 - 17:40 Break

SESSION II. The host genome and COVID-19

Chair: Carlota Dobaño (ISGlobal)

- 17:40 - 18:00 **Invited Lecture: Angel Carracedo** (Universidade de Santiago de Compostela, USC). Genetics of COVID-19: The SCOURGE project.
- 18:00 - 18:15 **Israel Fernández Cadenas** (Institut de Recerca de l'Hospital de la Santa Creu i Sant Pau). Analysis of genetic factors associated with COVID-19 severity and stroke risk.
- 18:15 - 18:30 **Marc Marti-Renom** (Centre Nacional d'Anàlisi Genòmica, CNAG-CRG). Tissue-specific 3D genome conformation predicts novel genetic susceptibility loci for severe COVID-19.
- 18:30 - 18:45 **Antonio Julià** (Vall d'Hebron Research Institute, VHIR). Blocking of the CD80/86 axis as a therapeutic approach to prevent progression to more severe forms of COVID-19.
- 18:45 - 19:00 **Modesto Orozco** (Institute of Biomedical Research, IRB). Big data and HPC to fight COVID-19.