

Research Symposium on Coronavirus

6 May 2020 online

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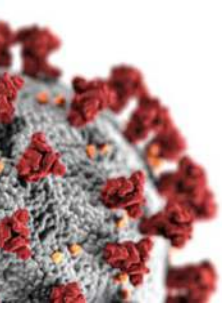


Societat Catalana
de **BIOLOGIA**



Institut
d'Estudis
Catalans

Program



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Program

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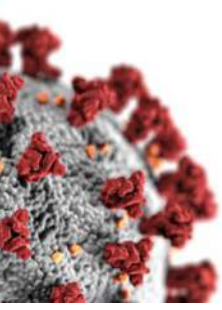
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Symposium webpage: scb.iec.cat/research-symposium-on-coronavirus/

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9.00 **Welcome and presentation**

Robert Fabregat

Director of Research and Innovation in Health of the Generalitat de Catalunya

Montserrat Corominas

UB, President of the Societat Catalana de Biologia (SCB)

Session 1. **Chairs: Albert Jordan (IBMB-CSIC) and Eduard Torrents (IBEC, UB)**

9.15-9.30 Júlia Vergara-Alert (IRTA CRcSA)

Animal models for the study of SARS-CoV2

9.30-9.45 Julià Blanco (IGTP, IrsiCaixa)

SARS-CoV-2 Vaccines. Who, How and When?

9.45-10.00 Joan Joseph (VHIR)

CoVITRvac. VITR vaccine model for SARS-CoV-2

10.00-10.10 Israel Fernández-Cadenas (IIB Sant Pau)

INMUNGEN-CoV-2 genetic variants as determinants of COVID-19 severity

10.10-10.30 Jordi Serra-Cobo (IRBio)

Eco-epidemiological works in CoV reservoirs

10.30-10.50 Antoni Trilla (Hospital Clínic de Barcelona, UB)

Epidemiology and control of COVID-19

10.50-11.00 Raquel Villar-Hernández (IGTP)

Tuberculosis in times of COVID-19

Session 2. **Chairs: Montserrat Sala (ICM-CSIC) and Fina Climent (Bellvitge University Hospital, IDIBELL)**

11.30-11.45 Albert Bosch (UB)

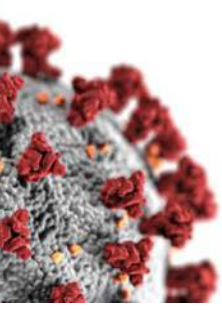
Early warning tool to assess the circulation of SARS-CoV-2 among the population through comprehensive surveillance in wastewater

11.45-12.00 Lluïsa Pedro-Botet (Hospital Germans Trias i Pujol)

Olfactory paper-based test as an approach for early detection of COVID-19

12.00-12.20 Bonaventura Clotet (IrsiCaixa, Hospital Germans Trias i Pujol)

Where to direct the current research in the fight against coronavirus?

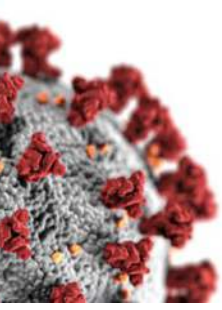


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- 12.20-12.30** **Susana Otero** (Vall d'Hebron University Hospital)
Test performance evaluation of SARS-CoV-2 serological assays: experience from Vall d'Hebron University Hospital
- 12.30-12.40** **Sílvia Vidal** (IIB Sant Pau)
Immune response to SARS-CoV-2 in hospital workers
- 12.40-12.50** **Raul Bescos** (University of Plymouth)
Detection of SARS-CoV RNA in saliva samples and assessment of salivary lactate and nitrite as prognostic factors
- 12.50-13.05** **Rafael Mániz** (Bellvitge University Hospital, IDIBELL)
Elicitation of protective immunity against SARS-CoV-2 by selective removal of non-neutralizing antibodies used by the virus to enhance its infectivity
- 13.05-13.20** **Gemma Moncunill** (ISGlobal)
Levels and seroprevalence of antibodies against SARS-CoV-2 in health care workers measured by a Luminex-based assay
- Session 3. Chairs: Marc Martí-Renom (CNAG-CRG) and Núria Busquets (IRTA-CReSA)**
- 14.30-14.40** **Tanja Ducic** (ALBA Synchrotron)
Synchrotron-based infrared microspectroscopy studies in an interaction virus-infected cells
- 14.40-14.50** **Juan José López-Moya** (CRAG)
Plant biotechnology contributions to fighting SARS-CoV-2: from therapy to vaccine development
- 14.50-15.00** **Laia Fernández-Barat** (IDIBAPS)
Identification of epitopes and anti-COVID-19 IgG isolation to produce monoclonal antibodies for treatment
- 15.00-15.15** **Patrick Aloy** (IRB Barcelona)
Bioactivity profile similarities to expand the repertoire of drugs against COVID-19
- 15.15-15.30** **Jordi Rodon** (IRTA CReSA)
Search for SARS-CoV-2 inhibitors in currently approved drugs to tackle COVID-19 pandemia
- 15.30-15.40** **Marta Monguió-Tortajada** (IGTP)
Current immunotherapy approaches for COVID-19
- 15.40-15.50** **Sandra Acosta-Verdugo** (UPF)
Organoids for drug repurposing in COVID-19



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Session 4. Chairs: Roderic Guigó (CRG) and Modesto Orozco (IRB Barcelona, PCB)

16.15-16.30 Fernando González-Candelas (UV FISABIO)

Genomic epidemiology of SARS-CoV-2 in Spain. The SeqCOVID-Spain consortium

16.30-16.45 Francisco Martínez-Jiménez (IRB Barcelona)

Mutational landscape of SARS-CoV-2 across human hosts and its interplay with Human Leukocyte Antigen recognition

16.45-17.00 Eva Maria Novoa (CRG)

Integrative analysis of SARS-COV-2 RNA modifications using nanopore direct RNA sequencing datasets and our pipeline MasterOfPores

17.00-17.10 Jonathan Mudge (EBI, EMBL)

Manual re-annotation and analysis of human protein coding genes linked to COVID-19 pathology

17.10-17.20 Josep Quer (VHIR)

Whole-Genome Sequencing of SARS-CoV-2 using Next Generation Sequencing

17.20-17.30 Andrej Bugrim (Silver Beach Analytics, Inc.)

Global network analysis of viral-human protein interactions reveals potential mechanism of lung injury by SARS-CoV-2 infection and suggests targets for drug repurposing

17.30-17.45 Xavier Hernández-Alias (CRG)

Translational adaptation of human viruses to the tissues they infect

17.45 Closure