



# Grenoble Host-Pathogen Interactions Club

[www.hostpathogen.fr](http://www.hostpathogen.fr)

## COVID-19: Current research on the local and national scene

December 10, 2020

### PROGRAM

- 9:30 – 9:35 Welcome**
- 9:35 – 10:10 Roger Le Grand (IDMIT, Fontenay-aux-Roses)**  
*Prevention of SARS-CoV-2 infection in preclinical models*
- 10:10 – 10:45 Olivier Epaulard (CHU Grenoble)**  
*COVID-19 in Grenoble: a first wave in Spring, a second in Fall – and what next?*
- 10:45 – 11:00 Patrice Marche (IAB Grenoble)**  
*Engineered lipid carriers as antigen delivery system: application to vaccination*
- 
- 11:05 – 11:15 About the club**
- 11:15 – 11:45 Short talks 1**  
I. Kandiah, C. Chabert, M. Thépaut, I. Vilgrain
- 11:45 – 12:00 Flash presentations**  
A. Dubankova, A. Amen, A. Heatley, S. Waldie, R. Rahimova, M.-O. Fauvarque
- 12:00 – 12:20 Short talks 2**  
A. Maestro, G. Sulbaran, A. Maino

#### Short talks 1

- 1. Isai Kandiah (ESRF)**  
*Orchestrated efforts of Non-structural protein 3 for an efficient viral replication of SARS-CoV2*
- 2. Clovis Chabert (IAB)**  
*Tobacco smoking and Covid-19 : a double edged sword*
- 3. Michel Thépaut (IBS)**  
*DC/L-SIGN recognition of spike glycoprotein promotes SARS-CoV-2 trans-infection and can be inhibited by a glycomimetic antagonist*
- 4. Isabelle Vilgrain (IRIG)**  
*COVID-19 microcirculation dysfunction: an hypothesis for endothelial junction injury at the origin of blood-clot*

#### Short talks 2

- 1. Armando Maestro (ILL)**  
*Neutron reflectivity to elucidate the viral fusion mechanism*
- 2. Guidenn Sulbaran (IBS)**  
*Characterization and immunogenicity of synthetic S glycoprotein virus-like particles*
- 3. Anthony Maino (EFS/IAB)**  
*GeniusVac : a cell-based vaccine to prime or boost anti-viral specific CD8+ T lymphocytes; application to SARS-CoV2*

#### Flash presentations

- 1. Anna Dubankova (EMBL)**  
*Targeting the SARS-CoV-2 polymerase active site*
- 2. Axelle Amen (CHUGA)**  
*Isolation and characterisation of SAR-CoV-2 neutralizing antibodies*
- 3. Alex Heatley (ILL/ESRF)**  
*Structural Studies of the N-terminal-domain of the SARS-CoV-2 Nucleocapsid Protein*
- 4. Sarah Waldie (ILL)**  
*Impact of the SARS-CoV-2 spike protein on the clearance of cholesterol through the liver by high density lipoprotein (HDL)*
- 5. Rahila Rahimova (EMBL)**  
*Towards novel therapeutics against current and future coronaviruses through deep-screening technology*
- 6. Marie-Odile Fauvarque (IRIG)**  
*Breaking Protein-Protein interactions : a dedicated chemical library at the CMBA high throughput screening platform*

