



«ETTORE MAJORANA» FOUNDATION AND CENTRE FOR SCIENTIFIC CULTURE
TO PAY A PERMANENT TRIBUTE TO ARCHIMEDES AND GALILEO GALILEI, FOUNDERS OF MODERN SCIENCE
AND TO ENRICO FERMI, THE "ITALIAN NAVIGATOR", FATHER OF THE WEAK FORCES



INTERNATIONAL SCHOOL OF MOLECULAR ONCOLOGY

Director

Dr. Franco M. Buonaguro, MD

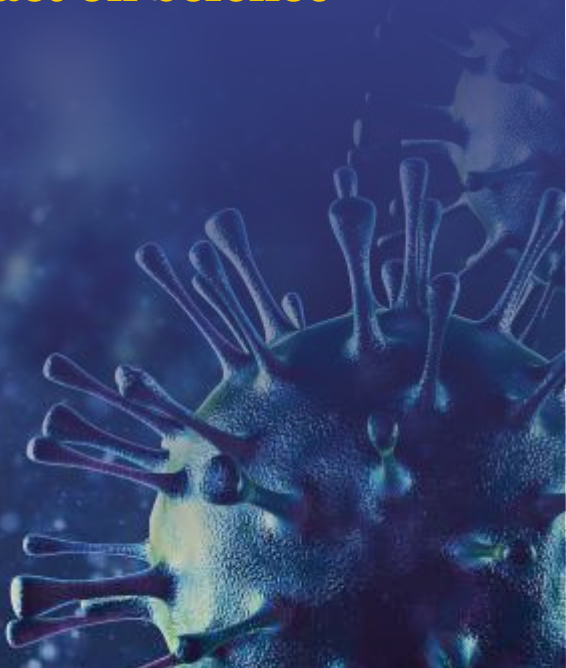
Second Course on **BioMedical studies** **in the Age of Pandemics:** **the COVID-19 impact on Science**

OCTOBER 12–15
2020

EVENTO



WEBINAR



INTERNATIONAL SCHOOL OF MOLECULAR ONCOLOGY

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Second Course on **BioMedical studies** **in the Age of Pandemics:** **the COVID-19 impact on Science**

OCTOBER 12–15, 2020

As of 20 September 2020 SARS-CoV2-19 has infected more than 30 million of people worldwide, carrying an overall mortality of approximately 3.1%, compared with a mortality rate of less than 1% of the influenza. Italy (especially Northern Italy) and several European countries have been badly hit by the epidemic in the March-April period, with a mortality rate $> 10\%$. At the moment the epidemic is prevalently involving United States, Latin America (i.e. Brazil) and Eastern European countries (including the Russian Federation). An effective antiviral treatment is not available. More research and studies are needed in order to develop specific therapeutic and preventive strategies. The course is providing an update on most of the open questions on the SARS-CoV-2 infection and the related COVID disease with the contribution of international leading scientists, covering epidemiological, virologic and immunologic aspects, molecular biology issues, therapeutic approaches and preventive strategies, including vaccines. The course is aimed at doctors and scientists who fight against this deadly pandemic with the most advanced technology.



DAY 1 OCTOBER 12

DAY

1



10:00-11:00 Welcome and Keynote Address

Welcome from the Directors

Gerardo Botti, MD - *Scientific Director of INT-Pascale, Naples, Italy*

Leonardo Miscio, MD - *Clinical Director INT-Pascale, Naples, Italy*

Antonio Gaudio - *Secretary General Active Citizenship Network, Italy*

Attilio A.M. Bianchi, MD - *Director General - INT-Pascale, Naples, Italy*

The COVID-19 impact on Science

The GVN view – The SIV-ISV view

11:00-13:00 EPIDEMIOLOGY

- 01 SARS-CoV-2 Global Pandemic
Ranieri Guerra, MD WHO – Geneva Switzerland
- 02 SARS-CoV2 European Pandemic
Gianni Rezza, MD, Ministero Salute – Rome, Italy
- 03 SARS-CoV-2 Italian Pandemic
Flavia Riccardo, MD ISS – Rome, Italy
- 04 New coronaviral infection- epidemiological situation, peculiarities, prognosis in Russia Fed
Deviatkov Mikhail, Univ of Perm, Russian Federation
- 05 Environmental surveillance of SARS-CoV-2 in Italy
Giuseppina La Rosa, ISS – Rome, Italy
- 06 COVID-19 preventive measures in oral/dental surgery
Agostino Guida, INT-Pascale, Naples, Italy

14:00-15:30 VIROLOGY

- 07 SARS-CoV-2 genetics
Xiaoxu Lin PhD, GHKE Inc., Silver spring, MD, USA
- 08 SARS-CoV-2 evolution
Massimo Ciccozzi PhD, Univ. Campus Bio-Medico, Rome, Italy
- 09 SARS-CoV-2 immunogenic epitope mapping
Pasquale Viro PhD, University del Sannio, Benevento, Italy
- 10 SARS-CoV-2 immunogenic recombinant spikes
Andrea Cara PhD, ISS, Rome Italy

15:30-16:00 WFS COVID-19 economic impacts

S. Leivesley (UK): T. Masuda (Tokyo) – W. Barletta (MIT-USA)

DAY 2 OCTOBER 13

DAY

2



11:00-12:30 PATHOGENESIS I

- 11 Antibody role in SARS-CoV-2
Jinghe Huang, PhD, Fudan Univ. Shanghai -China
- 12 Innate immunity in SARS-CoV-2
Marisa Gariglio, MD/PhD, Univ EastPiedmont, Novara, Italy
- 13 COVID-19 a veterinary perspective
Alessio Lorusso, IZS Teramo, Italy

13:30-14:00 Pathogenesis II

- 14 SARS-CoV-2 and the mouse model
Cathleen Lutz, *The Jackson Laboratory, USA*

14:00-15:30 Clinical Aspects

- 15 COVID-19: the impact of the pandemic in Northern Italy and the Health care initial response
Andrea Giacomelli, MD, *Ospedale Sacco-FBF- Milan, Italy*
- 16 Hepatocellular carcinoma management during COVID-19 pandemic Multidisciplinary Consensus Statement
Flair J. Carrilho, MD, *São Paulo School of Medicine, Brazil*
- 16b COVID-19 Clinical outcome in solid organ transplant recipients.
Paolo A.Grossi, MD, *University of Insubria, Varese, Italy*
- 18 Liver transplant recipients infected with COVID-19 in the early postoperative period: Lessons from a single center in the epicenter of the SARS-CoV2 pandemic
Luiz Carneiro-D'Albuquerque, *São Paulo School of Medicine, Brazil*
- 19 Surgical Oncology of the Head & Neck district during COVID-19 pandemic
Franco Ionna, *INT-Pascale, Naples, Italy*

15:30-16:00 WFS COVID-19 Mental Health impact

- I. Gilada (India); F. Iasevoli (Italy) – EF Buonaguro (Italy)

DAY 3 OCTOBER 14

11:00-12:00 Anti-COVID-19 treatment

- 20 SARS-CoV-2 anti-virals
Gui-Qiang Wang MD, *Peking University First Hospital, China*
- 21 SARS-CoV-2 treatment in Campania Region
Alessandro Perrella MD, *Campania COVID pandemic Unit, Italy*

12:00-12:30 Anti COVID strategies-I

- 22 SARS-CoV-2 anti-polymerase drugs
Luigi Buonaguro MD, *INT-Pascale, Naples, Italy*

13:30 -14:00 Anti COVID strategies-II

- 23 COVID-19 pandemic treatment and preventive strategies.
Robert C. Gallo MD, *Institute of Human Virology, Baltimore USA*

14:00-15:30 Cytokines and COVID-19

- 24 COVID-19 and cytokines
Adriana Albini, MD *Multimedica – Milan, Italy*
- 25 COVID-19 anti-IL6 treatments
Paolo Ascierio, MD, *LNT – Naples, Italy*
- 26 COVID-19 anti- IL1 & Cytokines treatments
Giulio Cavalli, MD *San Raffaele – Milan, Italy*

15:30-16:00 WFS COVID-19 Health System Impact

- F. Buonaguro: T. Gilada (India) – S. Mbulaiteye (NIH-USA)

DAY 3



DAY 4 OCTOBER 15

DAY 4



11:00-12:30 Humoral immunity & immunotherapy I

- 27 Humoral immune response in COVID-19
Gabriel Siracusano, *San Raffaele, Milan, Italy*
- 28 SARS-CoV-2 Neutralizing antibody
Gabriella Scarlatti MD, *San Raffaele, Milan, Italy*
- 29 SARS-CoV-2 plasma treatment
Raimundo Gazitua MD, *Institute Oncologic Chile*

13:30-14:00 Humoral immunity & immunotherapy II

- 30 SARS-CoV-2 neutralizing Ab fragments
Dimitar S Dimitrov, *UPMC, Pittsburgh, PA, USA*

14:00-15:00 Specific active Immunotherapy

- 31 SARS-CoV-2 vaccines (viral vectors & adeno)
Stefania Di Marco, *IRBM-Advent, Pomezia, Italy*
- 32 SARS-CoV-2 peptide & nucleic acid Vaccines
Luigi Aurisicchio PhD, *Takis, Pomezia Italy*

15:00-15:40 Non-specific effect of vaccines

- 33 The OVP effect on other diseases
Konstantin Chumakov, *FDA, USA*
- 34 Live vaccines protect against other diseases: the innate immunity training
Christine Stabell Benn, MD, *Univ of Southern Denmark, DK*

15:40-16:00 WFS COVID-19 Vaccine Political Issues

A. Nilsson (SE) - S. Leivesley (UK)

16:00-16:15 Conclusions & Greetings

Maria Lina Tornesello, PhD, *Course Director- INT, Naples, Italy*
Franco Maria Buonaguro, MD, *Course Director & Director of Mol Biol & Viral Oncology Unit - INT, Naples, Italy*

Selected Poster for Presentation

1P Not only COVID-19!

The utility of peripheral blood smear at the time of Covid-19.
Di Matola T., Sale S., Boenzi R., Landi G., D'Antonio A., Sabatino R.,
Vaccaro M.R., Atripaldi U., Atripaldi L., Atripaldi L.
AORN Ospedali dei Colli - Ospedale Monaldi, Naples, Italy


2P Use of robot-diagnostician in examination of key parameters of human organism vital activities the method of preliminary state estimation

Baydarov A., Lazarkov P., Vronskiy A., Voronova A.,
Shamarina A., Yuzhakov A., Averkov O.
Perm State Medical University, Perm, RF



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<https://zoom.us/download>

 To access the Zoom platform, the use of the Google Chrome browser is essential



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