

5th National Congress of the Italian Society for Virology

One Virology One Health

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WEBINAR
5-6 JULY 2021

Preliminary Program

FAD



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PATRONAGE REQUESTED

MINISTERO DELLA SALUTE



ISTITUTO NAZIONALE TUMORI
IRCCS FONDAZIONE G. PASCALE



UNIVERSITÀ DEGLI STUDI DI NAPOLI "FEDERICO II"



AMCLI
Associazione Microbiologi
Clinici Italiani

ANIV
Associazione Nazionale Infettivologi Veterinari



SIDILV
Società Italiana di Diagnostica
di Laboratorio Veterinaria



SIM
Società Italiana di Microbiologia

SIMIT
Società Italiana Malattie Infettive e Tropicali

MONDAY, JULY 5

08.20-08.30 Registration of participants (access and connection to web platform)

PLENARY SESSION

ROOMS A + B

08.30-09.00 OPENING OF POSTER SESSION AND SPONSOR EXHIBITION

SESSION 1: COVID-19: EVOLUTION OF A VIRUS

Chairs: **A. Caruso** (Brescia, Italy), **G. Palù** (Padua, Italy), **M. Tavio** (Ancona, Italy)

09.00-09.20 Lecture 1 - The crisis at the time of coronavirus: genomic evolution of SARS-CoV-2
M. Ciccozzi (Rome, Italy)

09.20-09.40 Lecture 2 - Intra-host evolution of SARS-CoV-2 during persistent infection
S. Fiorentini (Brescia, Italy)

09.40-10.00 Lecture 3 - Genetic variability of the SARS-CoV-2 genomes and its implications
F. Maggi (Varese, Italy)

10.00-10.50 SELECTED LECTURES (5 O.C. per 10 minutes)

10.50-11.00 Discussion

PARALLEL SESSION

ROOM A

SESSION 2: VIRAL DIAGNOSIS

Chairs: **R. Cavallo** (Turin, Italy),
S. Menzo (Ancona, Italy)

11.00-11.20 Lecture 4 - A modern, integrated approach to molecular diagnostics of SARS-CoV-2
C.F. Perno (Rome, Italy)

11.20-11.40 Lecture 5 - Immunologic response to SARS-CoV2 infected patients and vaccinated subjects
F. Baldanti (Pavia, Italy)

11.40-12.00 Lecture 6 - Viral gastroenteritis: an overview of current diagnostic methods
G. Giammanco (Palermo, Italy)

12.00-12.50 SELECTED LECTURES
(5 O.C. per 10 minutes)

12.50-13.00 Discussion

ROOM B

SESSION 3: ENVIRONMENTAL AND PLANT VIROLOGY

Chairs: **F. Di Serio** (Bari, Italy),
L. Rubino (Bari, Italy)

11.00-11.20 Lecture 7 - Metagenomics of plant-associated viromes
T. Candresse (Bordeaux, France)

11.20-11.40 Lecture 8 - Environmental surveillance for early pathogen identification, epidemic trends and genomic variability: a focus on SARS-CoV-2
G. La Rosa (Rome, Italy)

11.40-12.00 SELECTED LECTURES
(2 O.C. per 10 minutes)

12.00-13.00 **SPONSORED SYMPOSIUM 1**
Chair: **T. Lazzarotto** (Bologna, Italy)

13.00-14.00 Break

MONDAY, JULY 5

PARALLEL SESSION

ROOM A	ROOM B
SESSION 4: GENETICS, BIOTECHNOLOGY AND BIOINFORMATICS Chairs: G. Portella (Naples, Italy), M.C. Parolin (Padua, Italy)	SESSION 5: FRONTIERS IN GENERAL VIROLOGY 1 Chairs: A. Calistri (Padua, Italy), G. Franci (Salerno, Italy)
14.00-14.20 Lecture 9 - Network medicine in infectious diseases G. Ippolito (Rome, Italy)	14.00-14.20 Lecture 12 - Viral respiratory pathogens: direct and indirect mechanisms of lung injury N. Mancini (Milan, Italy)
14.20-14.40 Lecture 10 - CRISPR: diagnosis and treatment of viral infections M. Pistello (Pisa, Italy)	14.20-15.00 SELECTED LECTURES (4 O.C. per 10 minutes)
14.40-15.00 Lecture 11 - Clinical applications of viral vectors for gene therapy N. Brunetti Perri (Naples, Italy)	
15.00-15.50 SELECTED LECTURES (5 O.C. per 10 minutes)	
15.50-16.00 Discussion	15.00-16.00 SPONSORED SYMPOSIUM 2 Chairs: G. Scalia (Catania, Italy)

PLENARY SESSION

ROOMS A + B

SESSION 6: VIRUS-HOST INTERACTION

Chairs: **E. Affabris** (Rome, Italy), **G. Gribaudo** (Turin, Italy)

16.00-16.20 Lecture 13 - The SERINC enigma in viruses and cells
M. Pizzato (Trento, Italy)

16.20-16.40 Lecture 14 - ACE2: a key factor in regulating SARS-CoV2 and influenza virus infection
A.T. Palamara (Rome, Italy)

16.40-17.00 Lecture 15 - Identification of a novel getaway for SARS-CoV-2 entry into human endothelial cells
F. Caccuri (Brescia, Italy)

17.00-17.50 SELECTED LECTURES (5 O.C. per 10 minutes)

17.50-18.00 Discussion

18.00-19.00 **SIV-ISV GENERAL MEMBER MEETING**

18.00-20.00 POSTER SESSION AND SPONSOR EXHIBITION

TUESDAY, JULY 6

08.00-09.00 OPENING OF POSTER SESSION AND SPONSOR EXHIBITION

PLENARY SESSION

ROOMS A + B

SESSION 7: VIRAL ONCOLOGY

Chairs: **F.M. Buonaguro** (Naples, Italy), **P. Marconi** (Ferrara, Italy)

09.00-09.20 Lecture 16 - The oncogenic role of HPV in the pathogenesis of orofaryngeal and genital cancers
M.L. Tornesello (Naples, Italy)

09.20-09.40 Lecture 17 - Oncolytic viruses for cancer therapy
P. Malatesta (Genoa, Italy)

09.40-10.00 Lecture 18 - Therapeutic vaccines for virus-associated tumors
A. Venuti (Rome, Italy)

10.00-10.50 SELECTED LECTURES (5 O.C. per 10 minutes)

10.50-11.00 Discussion

PARALLEL SESSION

ROOM A

SESSION 8: VETERINARY VIROLOGY

Chairs: **C. Buonavoglia** (Bari, Italy),
G. Vaccari (Rome, Italy)

11.00-11.20 Lecture 19 - SARS Cov-2, a threat to marine mammals: One Health, One Ocean, One Virology
C. Casalone (Turin, Italy)

11.20-11.40 Lecture 20 - Hepadnavirus in cats: the discovery of a human hepatitis B-like virus
G. Lanave (Bari, Italy)

11.40-12.30 SELECTED LECTURES
(5 O.C. per 10 minutes)

12.30-13.00 Discussion

ROOM B

SESSION 9: IMMUNITY AND VACCINES

Chairs: **D. Gibellini** (Verona, Italy),
M.G. Cusi (Siena, Italy)

11.00-11.20 Lecture 21 - Innate immune response: at the forefront of viral infections
R. Rizzo (Ferrara, Italy)

11.20-11.40 Lecture 22 - Caspase8-virus interplay and innate immunity to HSV-1 infection
A. Mastino (Messina, Italy)

11.40-12.00 SELECTED LECTURES
(2 O.C. per 10 minutes)

SESSION 10: UPDATES ON HIV

Chair: **A. Manzin** (Cagliari, Italy)

12.00-12.30 Lecture 23 - New therapeutic strategies against HIV
A. Antinori (Rome, Italy)

12.30-12.40 Discussion

12.40-13.00 SELECTED LECTURES
(2 O.C. per 10 minutes)

13.00-14.00 Break

TUESDAY, JULY 6

PARALLEL SESSION

ROOM A

SESSION 11: ANTIVIRAL THERAPY

Chairs: **M. Galdiero** (Naples, Italy),
E. Tramontano (Cagliari, Italy)

14.00-14.20 Lecture 24 - Oxysterols: a promising class of broad spectrum antivirals
D. Lembo (Turin, Italy)

14.20-14.40 Lecture 25 - Advanced development of filovirus medical countermeasures yields insights into viral pathogenesis
A. Griffiths (Boston, USA)

14.40-15.00 Lecture 26 - Intranasal fusion inhibitory lipopeptide prevents direct contact SARS-CoV-2 transmission in ferrets
M. Porotto (Naples, Italy)

15.00-15.50 SELECTED LECTURES
(5 O.C. per 10 minutes)

15.50-16.00 Discussion

ROOM B

SESSION 12: FRONTIERS IN GENERAL VIROLOGY 2

Chairs: **E. Riva** (Rome, Italy),
V. Martella (Bari, Italy)

14.00-14.20 Lecture 27 - MALDI-ToF mass spectrometry as innovative tool for viruses identification
A. Calderaro (Parma, Italy)

14.20-15.00 SELECTED LECTURES
(4 O.C. per 10 minutes)

15.00-16.00 **SPONSORED SYMPOSIUM 3**
Chairs: **V. Svircher** (Rome, Italy)

PLENARY SESSION

ROOMS A + B

SESSION 13: PATHOGENESIS, PREVENTION AND CONTROL

Chairs: **G. Antonelli** (Rome, Italy), **M. Clementi** (Milan, Italy), **A. Lazzarin** (Milan, Italy)

16.00-16.20 Lecture 28 - Clinical Characteristics and Treatment of COVID-19 patients: an update
M.C. Mastroianni (Rome, Italy)

16.20-16.40 Lecture 29 - SARS-CoV-2 diagnostics: a critical review of the current assays
M.R. Capobianchi (Rome, Italy)

16.40-17.00 Lecture 30 - SARS-CoV-2 and antiviral interferon response: who wins at tug-of-war?
C. Scagnolari (Rome, Italy)

17.00-17.50 SELECTED LECTURES (5 O.C. per 10 minutes)

17.50-18.00 Discussion

INTRODUCTION: **G. Antonelli** (Rome, Italy)

18.00-18.30 Closing Lecture 31 - SARS-CoV-2 and COVID-19: what has been done and what remains to do
G. Silvestri (Atlanta, USA)

18.30-19.00 **LURIA AWARDS** - Chair: **A. Caruso** (Brescia, Italy)

19.00-19.15 Closing Remarks

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Aldo VENUTI (Rome, Italy)

CALL FOR ABSTRACT

Abstract presentation date: **April 21, 2021 - h 24,00**

Abstract acceptance notification date: **April 27, 2021**

TOPICS

- COVID-19: evolution of a virus
- Diagnosis of viral infections
- Virology of environment and plants
- Viral genetics and biotechnologies
- New horizons in virology 1
- Virus-host interaction
- Viruses and tumours
- Veterinary virology
- Antiviral immunity and vaccines
- Antiviral therapy
- New horizons in virology 2
- COVID-19: pathogenesis, prevention and control
- New therapeutic strategies against HIV
- Other

INFORMATIONS ON THE SITE

www.congressosivisv.com

GENERAL INFORMATIONS

DATE OF CONGRESS

Monday 5 July 2021 from 8.30 to 20.00

Tuesday 6 July 2021 from 8.00 to 19.15

ONLINE REGISTRATION:

www.congressosivisv.com

ORGANIZING SECRETARIAT AND PROVIDER NR. 265



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GENERAL INFORMATIONS

- **Accessing the Webinar** - You have to register in order to access the webinar. After you fill out the form, you will receive a mail with a link to confirm the activation of your account. After you activate your account, you will receive a message confirming registration, with instructions to access the live streaming on 5-6 July 2021. The webinar has a limited number of participants and is reserved to ECM-accredited professions and fields of study.
- **CME Accreditation** - ECM accreditation will be required for the following professions:
 - Medical Doctor (Disciplines: all fields)
 - Nurse
 - Biologist
 - Pharmacist
 - Psychologist
 - Chemist
 - Veterinarian
 - Medical Laboratory Technician
- **Number of participants:** 800
- **Languages:** Italian/English
- **Assessment method** - To earn ECM credits from the e-learning event, you must:
 - Participate in at least 90% of the learning activities
 - Give correct answers to at least 75% of the multiple-choice questions (with double randomization) on the online learning questionnaire
 - a maximum of five attempts to pass the test are allowed
 - the questionnaire will be online for 3 (three) days after the event has ended.
 - Fill out the e-learning event perceived-quality form
 - Fill out the learning needs survey
- **E-learning typology:**
 - Live course on dedicated multimedia platform (virtual classroom, webinar) - synchronous e-learning