



SOCIETA' ITALIANA
DI VIROLOGIA

ITALIAN SOCIETY
FOR VIROLOGY

6th National Congress of the Italian Society for Virology

One Virology One Health

**Naples
July 3-5, 2022**

Hotel Royal Continental
Via Partenope, 38

www.congressosivisv.com

**HYBRID EVENT
RESIDENTIAL AND WEBINAR**

Scientific Programme



...e divenne il simbolo della Restaurazione

La piazza si presentò per secoli come uno spazio irregolare fino all'inizio del Seicento, quando l'edificazione del Palazzo Reale ne cambiò il volto e la funzione.

“Largo di Palazzo”, come veniva chiamato, si fece scenario di numerose feste popolari, come la celebre Cuccagna che consisteva nell'assaltare, al giusto segnale, un banchetto o un catafalco colmo di ogni sorta di cibarie e viveri.

All'inizio dell'Ottocento, durante il periodo napoleonico, si pensò a ridisegnare più radicalmente l'area interpretandola come una piazza d'armi, laica e razionale, con la costruzione del meraviglioso colonnato in marmo e pietra lavica e con l'edificazione di una struttura a pianta centrale che doveva accogliere i soldati, in occasione delle parate militari. La fine del Regno di Gioacchino Murat trasformò la piazza nel simbolo della Restaurazione: il re Ferdinando sostituì la struttura circolare con una chiesa commissionata all'architetto Pietro Bianchi rendendo lo spazio il simbolo dei due eterni poteri della città: il re e il clero.

Dopo la fine del decennio francese vennero portati a compimento il Palazzo della Prefettura, alle cui spalle vi è lo storico bar napoletano Caffè Gambrinus, e Palazzo Salerno.

Occupano il centro le due statue equestri di Carlo di Borbone e di suo figlio Ferdinando, protagonisti del curioso gioco, noto ai napoletani come ai turisti, di attraversare la piazza a occhi chiusi partendo dall'ingresso di Palazzo Reale passando fra le due statue. Nessuno però è mai riuscito nell'impresa anche a causa della leggera pendenza della piazza che rende difficile proseguire dritto, oppure, come narra la leggenda, a causa della maledizione scagliata dalla regina Margherita ai suoi prigionieri, ai quali prometteva la salvezza qualora fossero riusciti nell'ardua prova.

[Francesca Amirante]

Foto di copertina: Piazza del Plebiscito e Chiesa di San Francesco di Paola.

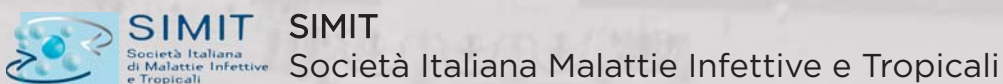
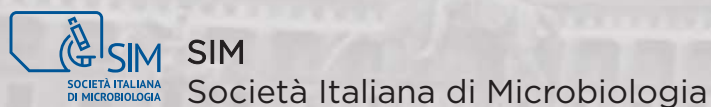
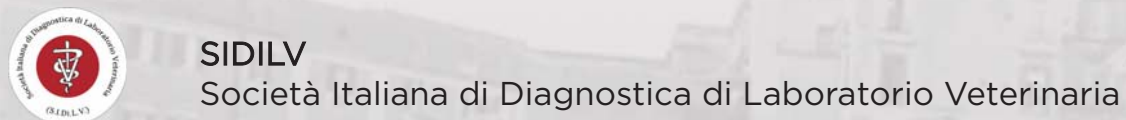
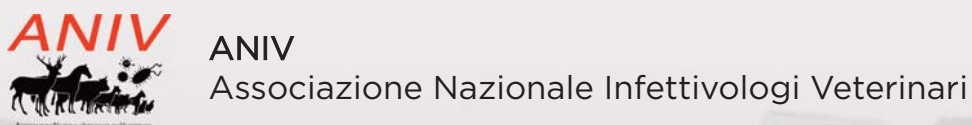
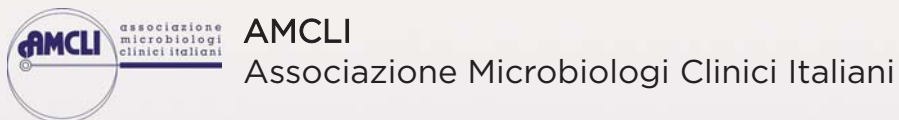
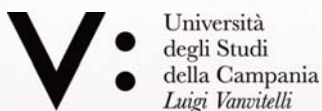
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UNIVERSITÀ DEGLI STUDI DI NAPOLI FEDERICO II





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DI VIROLOGIA**

**ITALIAN SOCIETY
FOR VIROLOGY**

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● Presentation

As the pandemic seems to start fading away, the flagship annual meeting of the Italian Society of Virology SIV-ISV is back on the agenda. During the past 2 years, as a consequence of the COVID-19 pandemic, the Society was forced to pivot the scientific programs (both the 4th and the 5th SIV-ISV National Congresses) into a totally new format for online consumption. The events, free for all users, were undisputed successes, both from a scientific/educational as well as from a digital technology perspective. The number of registrations increased by almost four-fold when compared with previous editions with a greater proportion of younger and female participants. We come to appreciate the realm of possibilities offered by online conferences but we also missed the opportunity to meet people and to interact with friends and colleagues. Even senior scientists suffered the lack of networking opportunities, but the loss of impromptu interactions at online events made it harder to connect graduate students with senior members of the scientific community. Therefore, it is a great honor that the city of Naples will host the first resumed in-person SIV-ISV national meeting. In keeping with the tradition, the scientific structure of the Congress features different thematic sessions ranging from general virology such as structural virology, virus-host interactions and pathogenesis, viral genetics, biotechnology and oncogenic viruses to clinical virology with sessions on antiviral therapy and diagnosis, vaccines, epidemiology and diseases, without overlooking veterinary, environmental and plant virology. On the contrary, the meeting will be conceived to promote productive interactions between the different virological souls and we invite participants to explore synergies between different disciplines. Every session starts with Invited Lectures followed by oral communications selected from the “Call for Abstracts”. Specific Symposia mainly dedicated to clinical aspects of virology as well as Poster Exhibition and Discussion will complete the scientific structure of the Congress. Special attention has been given to Young Investigators whose participation has been encouraged by Scholarships.

The 6th National Congress of the Italian Society for Virology has been accredited to the Italian Ministry of Health for CME Credits for the following professionals: Medical Doctor (all disciplines), Biologist, Biotechnologist, Medical laboratory technician, Nurse, Veterinary, Pharmacist, Physicist and Chemist.

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Franco Buonaguro (Naples)
Arnaldo Caruso (Brescia)
Gianluigi Franci (Salerno)
Massimiliano Galdiero (Naples)
Giuseppe Portella (Naples)

Faculty

Davide ABATE, Padua, Italy	20	Franco LORI, Alghero, Italy	22
Roberto ACCOLLA, Varese, Italy	18	Fabrizio MAGGI, Varese, Italy	15
Sergio ABRIGNANI, Pisa, Italy	20	Nicasio MANCINI, Milan, Italy	15
Marcello ALLEGRETTI, L'Aquila, Italy	22	Roberta MANCUSO, Milan, Italy	15
Gualtiero ALVISI, Padua, Italy	14	Vito MARTELLA, Bari, Italy	11
Maria Grazia AMOROSO, Portici, Italy	19	Claudio Maria MASTROIANNI, Rome, Italy	11
Gabriele ANICHINI, Siena, Italy	20	Fulvio MAVILIO, Modena, Italy	16
Guido ANTONELLI, Rome, Italy	11, 21	Isabelle MONNE, Padua, Italy	11
Fausto BALDANTI, Pavia, Italy	20	Fabiana NAPOLITANO, Naples, Italy	16
Federica BERGAMI, Pavia, Italy	15	Emanuela NORIS, Turin, Italy	19
Chiara BERTAGNIN, Padua, Italy	17	Giuseppe NOVELLI, Rome, Italy	22
Giusy BONANNO FERRARO, Rome, Italy	19	Francesco ORIGGI, Berna, Switzerland	18
Daria BORTOLOTTI, Ferrara, Italy	14	Emilia PALAZZOTTO, Palermo, Italy	12
Antonella BUGATTI, Brescia, Italy	21	Andrea PALOMBIERI, Teramo, Italy	11
Raffaele BRUNO, Pavia, Italy	21	Giorgio PALU', Padua, Italy	17
Franco Maria BUONAGURO, Naples, Italy	18, 19	Maria Cristina PAROLIN, Padua, Italy	16
Luigi BUONAGURO, Naples, Italy	18	Francesco PELLEGRINI, Bari, Italy	11
Davide CACCHIARELLI, Naples, Italy	11	Rosamaria PENNISI, Messina, Italy	21
Francesca CACCURI, Brescia, Italy	22	Carlo Federico PERNO, Rome, Italy	11, 13
Arianna CALISTRI, Padua, Italy	7	Sandra PETRAGLIA, Rome, Italy	20
Maria Rosaria CAPOBIANCHI, Rome, Italy	21	Pasquale PICCOLO, Naples, Italy	16
Arnaldo CARUSO, Brescia, Italy	11, 19, 22	Alessandra PIERANGELI, Rome, Italy	12
Francesco CASTELLI, Brescia, Italy	22	Lorenzo PIERMATTEO, Rome, Italy	18
Rossana CAVALLO, Turin, Italy	12	Mauro PISTELLO, Pisa, Italy	20
Irene CASSANITI, Pavia, Italy	12	Matteo POROTTO, Naples, Italy	22
Francesca CECCHERINI-SILBERSTEIN, Rome, Italy	21	Giuseppe PORTELLA, Naples, Italy	16
Lorenzo Agostino CITTERIO, Milan, Italy	20	Clarissa READ, Ulma, Germany	17
Massimo CLEMENTI, Milan, Italy	15	Felix REY, Paris, France	17
Clementina Elvezia COCUZZA, Milan, Italy	13	Roberta RIZZO, Ferrara, Italy	15
Mirko CORTESE, Pozzuoli, Italy	17	Alessandro RONDINA, Brescia, Italy	17
Cristina COSTA, Turin, Italy	12	Luisa RUBINO, Bari, Italy	19
Maria Grazia CUSI, Siena, Italy	14	Josè Camilla SAMMARTINO, Pavia, Italy	21
Stefano D'ANNA, Rome, Italy	14	Hélène SANFAÇON, Summerland, Canada	19
Valentina DELL'OSTE, Turin, Italy	14	Mariam SHALLAK, Varese, Italy	18
Barbara DI MARTINO, Teramo, Italy	11	Paola STEFANELLI, Rome, Italy	11
Francesco DI SERIO, Bari, Italy	19	Elisabetta SUFFREDINI, Rome, Italy	11
Leonardo DUCA, Rome, Italy	22	NgeeKeong TAN, London, UK	13
Iole FARINA, Rome, Italy	14	Massimo TOMMASINO, Bari, Italy	18
Veronica FOLLIERO, Naples, Italy	22	Enzo TRAMONTANO, Cagliari, Italy	22
Greta FORLANI, Varese, Italy	20	Massimo TURINA, Turin, Italy	19
Matteo FRACELLA, Rome, Italy	12	Gabriele VACCARI, Rome, Italy	11
Gianluigi FRANCI, Salerno, Italy	22	Violetta Iris VASINIOTI, Bari, Italy	11
Liliana GABRIELLI, Bologna, Italy	12	Yaohane WANG, London, UK	16
Paolo GAIBANI, Bologna, Italy	13	Alberto ZANI, Brescia, Italy	18
Massimiliano GALDIERO, Naples, Italy	17, 23	Carla ZANNELLA, Naples, Italy	11
Robert C. GALLO, Baltimore, USA	19	Maurizio ZAZZI, Siena, Italy	21
Valentina GENTILI, Ferrara, Italy	21	Francisco Murilo ZERBINI, Viçosa, Brazil	19
Giancarlo GIACCONE, Saluggia, Italy	13	(ICTV President)	
Tatiana GIANNI, Bologna, Italy	14		
Nicole GRANDI, Cagliari, Italy	15		
Giorgio GRIBAUDO, Turin, Italy	14		
Antonio GRIMALDI, Pozzuoli, Italy	16		
Yi GUO, Bologna, Italy	19		
Maedeh KOJOURI, Rome, Italy	12		
Evelina LA CIVITA, Naples, Italy	15		
Michele LAI, Pisa, Italy	22		
Cristina LAPUCCI, Monza, Italy	15		
Tiziana LAZZAROTTO, Bologna, Italy	12, 13		
Arianna LOREGIAN, Padua, Italy	17		

Time Table

Sunday July 3 th , 2022		
From 12.00	OPENING OF POSTER SESSION AND SPONSOR EXHIBITION	
	Registration of participants	
13.15-14.00	Welcome addresses	
	PLENARY SESSION	
	Auditorium	
14.00-16.00	SESSION 1 - COVID-19: two years within a pandemic	
16.00-16.30	COFFEE BREAK	
	PARALLEL SESSIONS	
	Auditorium	Mirabilis
16.30-18.30	SESSION 2 - Veterinary Virology	SESSION 3 - Diagnostics in human virology
18.30-19.30	Advancements of sample collection and transport in virology <i>With the unrestricted educational grant of COPAN ITALIA</i>	Monitoring of cytomegalovirus infection in hematopoietic stem cell transplantation recipients undergoing letermovir prophylaxis <i>With the unrestricted educational grant of ELITECHGROUP</i>
		A novel diagnostic approach to differentiate Viral from Bacterial Infections <i>With the unrestricted educational grant of DIASORIN</i>

Time Table

Monday July 4 th , 2022		
	OPENING OF POSTER SESSION AND SPONSOR EXHIBITION	
	PLENARY SESSION	
	Auditorium	
08.30-10.30	SESSION 4 - Virus-host interaction	
	PARALLEL SESSIONS	
	Auditorium	Mirabilis
10.30-12.30	SESSION 5 - COVID-19 Diagnosis: novel perspectives	SESSION 6 - Viral Vectors and gene therapy
12.30-13.15	SIV-ISV MEMBERS' MEETING	
Available from 12.30 to 14.00	LUNCH AND POSTER VIEWING	
	PLENARY SESSION	
	Auditorium	
14.00-15.45	SESSION 7 - Structural virology and biotechnology	
15.45-16.30	COFFEE BREAK	
	PARALLEL SESSIONS	
	Auditorium	Mirabilis
16.30-18.45	SESSION 8 - Viruses and Cancer	SESSION 9 - Environmental and plant virology
	PLENARY SESSION	
	Auditorium	
18.45-19.15	PLENARY LECTURE	
20.30	SOCIAL DINNER	

Time Table

Tuesday July 5 th , 2022		
	PLENARY SESSION	
	Auditorium	
08.30-10.30	SESSION 10 - Infection, Immunity and Vaccines	
	PARALLEL SESSIONS	
	Auditorium	Mirabilis
10.30-12.30	SESSION 11 - Viral pathogenesis and Disease	SESSION 12 - Antiviral Therapy
	PLENARY SESSION	
	Auditorium	
12.30-13.10	SESSION 13 - Highlights in HIV pathogenesis and therapy	
13.10-13.30	Luria and Viruses Award 2022	
	CLOSING REMARKS	
14.00-17.00	PLENARY SESSION	
	VirSudNet Symposium	

● Sunday July 3th, 2022

OPENING OF POSTER SESSION AND SPONSOR EXHIBITION

From 12.00 Registration of participants

13.15-14.00 Welcome addresses
Arnaldo Caruso, President SIV-ISV
Andrea Costa, Ministry of Health, Undersecretary of State
Greetings from local Authorities

PLENARY SESSION

Auditorium

SESSION 1 COVID-19: two years within a pandemic

Chairs: **Guido Antonelli** (Rome), **Arnaldo Caruso** (Brescia)

14.00-14.30 The pandemic through the eyes of the ISS
Paola Stefanelli (Rome)

14.30-15.00 Clinical management of COVID-19: an update
Claudio Mastroianni (Rome)

15.00-15.30 SARS-CoV-2 infection in children: Much information still missing
Carlo Federico Perno (Rome)

15.30-16.00 Long Covid: mutation of concern and transcriptional analysis
Davide Cacchiarelli (Naples)

16.00-16.30 *Coffee Break*

PARALLEL SESSIONS	
Auditorium	Mirabilis
SESSION 2 Veterinary Virology Chairs: Vito Martella (Bari), Gabriele Vaccari (Rome)	SESSION 3 Diagnostics in human virology Chairs: Rossana Cavallo (Turin), Tiziana Lazzarotto (Bologna)
<u>16.30-16.50</u> The changing horizons of virology in cats Barbara Di Martino (Teramo)	<u>16.30-16.50</u> Antiviral drug resistance of human cytomegalovirus in immunocompromised patients Irene Cassaniti (Pavia)
<u>16.50-17.10</u> Food virology: a winding road balancing innovation and standardization Elisabetta Suffredini (Rome)	<u>16.50-17.10</u> Role of cellular immune response in viral diagnosis Cristina Costa (Turin)
<u>17.10-17.30</u> Avian Influenza - An expanding global threat Isabelle Monne (Padua)	<u>17.10-17.30</u> Strategies for testing non-SARS-CoV-2 respiratory viruses Alessandra Pierangeli (Rome)
<u>17.30-17.45</u> OC1: Detection of a recombinant torovirus in cattle Francesco Pellegrini (Bari)	<u>17.30-17.45</u> OC5: Molecular epidemiology of RSV strains causing an unusual peak of hospitalization in autumn 2021 Matteo Fracella (Rome)
<u>17.45-18.00</u> OC2: Peptides modelled on the glycoprotein Gn and Gc of Schmallenberg virus inhibit viral infectivity Carla Zannella (Naples)	<u>17.45-18.00</u> OC6: Chromosomally integrated human herpesvirus 6: laboratory and clinical features Liliana Gabrielli (Bologna)
<u>18.00-18.15</u> OC3: Circular single-stranded DNA viruses in cats Violetta Iris Vasinioti (Bari)	<u>18.00-18.15</u> OC7: Detection of measles specific IgM/IgG by in house elisa based on recombinant n protein Maedeh Kojouri (Rome)
<u>18.15-18.30</u> OC4: Detection and characterization of bopiviruses in domestic and wild ruminants, Italy Andrea Palombieri (Teramo)	<u>18.15-18.30</u> OC8: ToRCH agents retrospective 10-years seroprevalence survey in women of childbearing age in Sicily Emilia Palazzotto (Palermo)

● Sunday July 3th, 2022

PARALLEL SESSIONS	
Auditorium	Mirabilis
<u>18.30-19.30</u> <i>With the unrestricted educational grant of COPAN ITALIA</i> Advancements of sample collection and transport in virology Self-collection for HPV Screening: new approaches for the prevention of cervical cancer Clementina Elvezia Cocuzza (Milan) Detecting CMV shedding in pregnant women and newborns: are all swabs created equal? NgeeKeong Tan (London) The challenges of managing the COVID-19 pandemic pre-analytic to diagnosis Paolo Gaibani (Bologna)	<u>18.30-19.00</u> <i>With the unrestricted educational grant of ELITECHGROUP</i> Chair: Carlo Federico Perno (Rome) Monitoring of cytomegalovirus infection in hematopoietic stem cell transplantation recipients undergoing letermovir prophylaxis Tiziana Lazzarotto (Bologna) <u>19.00-19.30</u> <i>With the unrestricted educational grant of DIASORIN</i> (No CME accreditation) A novel diagnostic approach to differentiate Viral from Bacterial Infections Giancarlo Giaccone (Saluggia)

Monday July 4th, 2022

OPENING OF POSTER SESSION AND SPONSOR EXHIBITION

PLENARY SESSION

Auditorium

SESSION 4 Virus-host interaction

Chairs: **Giorgio Gribaudo** (Turin), **Arianna Calistri** (Padua)

08.30-08.50 HSV entry: from virus engineering to preclinical models
Tatiana Gianni (Bologna)

08.50-09.10 Viral proteins knocking at the nuclear door: a tale of importins
Gualtiero Alvisi (Padua)

09.10-09.30 Toscana Virus and Antagonism to the innate immune response
Maria Grazia Cusi (Siena)

09.30-09.45 **OC9:** Transcriptionally active HBV integrations frequently occur in the early phases of chronic infection and mostly involve genetic regions crucial for cell proliferation
Stefano D'Anna (Rome)

09.45-10.00 **OC10:** Effect of SARS-CoV-2 on the coagulation cascade in COVID-19 associated coagulopathies
Daria Bortolotti (Ferrara)

10.00-10.15 **OC11:** IFI16 impacts metabolic reprogramming during human cytomegalovirus infection
Valentina Dell'Oste (Turin)

10.15-10.30 **OC12:** A complex signaling pathway involving NF- κ B, JAK/STAT, and gp130 is activated by CCL2 neutralization to induce the expression of HIV-1 restriction factors in primary human macrophages
Iole Farina (Rome)

PARALLEL SESSIONS	
Auditorium	Mirabilis
SESSION 5 COVID-19 Diagnosis: novel perspectives Chairs: Massimo Clementi (Milan), Fabrizio Maggi (Varese) <u>10.30-10.50</u> Upper respiratory tract and viral pathogens: what did we learn from SARS-CoV-2 infection? Nicasio Mancini (Milan) <u>10.50-11.10</u> A rapid and scalable PCR-based test to detect SARS-CoV-2 cellular immunity administration Cristina Lapucci (Monza) <u>11.10-11.30</u> Cell-intrinsic immunity to sense SARS-CoV-2 infection Roberta Rizzo (Ferrara) <u>11.30-11.45</u> OC13: Performance of home-made whole blood stimulation assays for the quantification of SARS-CoV-2 specific T-cell response: a cross-sectional study Federica Bergami (Pavia) <u>11.45-12.00</u> OC14: Interferon-gamma levels in umbilical cord blood of newborns from SARS-CoV-2 affected mothers Evelina La Civita (Naples) <u>12.00-12.15</u> OC15: Monitoring of humoral response in healthcare workers receiving Biontech/Pfizer BNT162B2 mRNA vaccination Roberta Mancuso (Milan) <u>12.15-12.30</u> OC16: Human endogenous retroviruses (HERVs) transcriptome in PBMC is modulated during SARS-CoV-2 infection and allows to discriminate COVID-19 clinical stages Nicole Grandi (Cagliari)	SESSION 6 Viral Vectors and gene therapy Chairs: Giuseppe Portella (Naples), Maria Cristina Parolin (Padua) <u>10.30-10.55</u> Development of next generation of tumour-targeted replicating oncolytic viruses using an ideal immunocompetent animal model Yaohe Wang (London) <u>10.55-11.20</u> Gene therapy of X-linked Myotubular Myopathy by systemic AAV vector Fulvio Mavilio (Modena) <u>11.20-11.45</u> Vector genome integration and gene therapy: friends or foes Pasquale Piccolo (Naples) <u>11.45-12.00</u> OC17: Synergism of the oncolytic adenovirus dl922-947 and G-quadruplex binder pyridostatin against breast cancer Fabiana Napolitano (Naples) <u>12.00-12.15</u> OC18: An improved sequencing approach to fully profile SARS-CoV-2 pandemics at regional level, identify new variants and describe infection signatures in patients Antonio Grimaldi (Pozzuoli)

Auditorium

12.30-13.15 **SIV-ISV MEMBERS' MEETING**

Available from 12.30 to 14.00 **Lunch and Poster viewing**

PLENARY SESSION

Auditorium

SESSION 7 Structural virology and biotechnology

Chairs: **Giorgio Palù** (Padua), **Massimiliano Galdiero** (Naples)

14.00-14.20 On the mechanism of antibody neutralization targeting the receptor binding domain of the SARS-CoV-2 spike protein
Felix Rey (Paris)

14.20-14.40 The potential of electron microscopy in understanding virus-host interactions: A study of HCMV morphogenesis
Clarissa Read (Ulma)

14.40-15.00 Structure-based drug design for antiviral drug discovery
Arianna Loregian (Padua)

15.00-15.15 **OC19:** Molecular and structural characterization of SARS-CoV-2-induced cellular remodeling
Mirko Cortese (Pozzuoli)

15.15-15.30 **OC20:** A small-molecule inhibitor of human papillomavirus E7 oncoprotein rescues cellular PTPN14 levels and possesses antitumoral activity
Chiara Bertagnin (Padua)

15.30-15.45 **OC21:** Structural characterization of HIV-1 matrix protein p17 variants to develop specific functional inhibitors
Alessandro Rondina (Brescia)

15.45-16.30 *Coffee Break*

Monday July 4th, 2022

PARALLEL SESSIONS	
Auditorium	Mirabilis
SESSION 8 Viruses and Cancer Chairs: Roberto Accolla (Varese), Franco M. Buonaguro (Naples)	SESSION 9 Environmental and plant virology Chairs: Francesco Di Serio (Bari), Luisa Rubino (Bari)
<u>16.30-16.50</u> Role of human papillomaviruses in carcinogenesis Massimo Tommasino (Bari)	<u>16.30-17.00</u> At the interface of host-virus interactions: cleavage of plant proteins by a potyvirus protease and potential applications for novel antiviral strategies Hélène Sanfaçon (Summerland)
<u>16.50-17.10</u> HTLV-1 retrovirus infection and the road to Adult T-cell Leukaemia Roberto Accolla (Varese)	<u>17.00-17.30</u> A virus by any other name: The new binomial nomenclature for virus species Francisco Murilo Zerbini (Viçosa)
<u>17.10-17.30</u> Convergence between viral and tumor antigens Luigi Buonaguro (Naples)	<u>17.30-17.45</u> OC26: Ambivirus: a new Baltimore class of viruses? Massimo Turina (Turin)
<u>17.30-17.45</u> OC22: Dissecting the basis of herpesvirus associated proliferative skin diseases in lower vertebrates. A model for DNA-virus associated proliferative and neoplastic diseases Francesco Origi (Berna, Switzerland)	<u>17.45-18.00</u> OC27: Multipartite BNYVV genomic RNAs change their relative frequencies according to the infected host and organ and after transmission in the vector Yi Guo (Bologna)
<u>17.45-18.00</u> OC23: First detection of a cluster of sexually transmitted HIV-1 mutants expressing a B-cell clonogenic variant of p17 Alberto Zani (Brescia)	<u>18.00-18.15</u> OC28: Enteric viruses circulation in the environment and their occurrence in cases of infantile gastroenteritis Maria Grazia Amoroso (Portici)
<u>18.00-18.15</u> OC24: The enrichment of positively charged amino acids in HBsAg C-terminus impairs HBsAg secretion, affects its structural stability and is correlated with HBV-induced liver cancer Lorenzo Piermatteo (Rome)	<u>18.15-18.30</u> OC29: Tracking SARS-CoV-2 variants in Italy (October 2021-March 2022) using the national wastewater-based surveillance system Giusy Bonanno Ferraro (Rome)
<u>18.15-18.30</u> OC25: The endogenous HBZ interactome in ATL leukemic cells reveals an unprecedented complexity of host interacting partners involved in RNA splicing Mariam Shallak (Varese)	<u>18.30-18.45</u> OC30: Cutting edge application of Raman spectroscopy for the diagnosis of virus infection in two major crops, tomato and grapevine Emanuela Noris (Turin)

PLENARY SESSION

Auditorium

Plenary Lecture	
Chairs:	Arnaldo Caruso (Brescia), Franco M. Buonaguro (Naples)
<u>18.45-19.15</u>	Role of RNA viruses in human diseases - Robert C. Gallo (Baltimore)
<u>20.30</u>	Social Dinner

PLENARY SESSION

Auditorium

SESSION 10 Infection, Immunity and Vaccines

Chairs: **Fausto Baldanti** (Pavia), **Mauro Pistello** (Pisa)

08.30-08.50 Advances in Vaccine Technologies
Mauro Pistello (Pisa)

08.50-09.10 Immune Responses to Old and New Vaccines
Sergio Abrignani (Milan)

09.10-09.30 Regulatory Process Leading to Decisions on Vaccines: Focus on COVID-19
Sandra Petraglia (Rome)

09.30-09.45 **OC31:** Analysis of the immune response to measles virus in vaccinees and naturally infected subjects
Gabriele Anichini (Siena)

09.45-10.00 **OC32:** Dynamic of IgA production in saliva of healthcare workers after Biontech/Pfizer BNT162B2 mRNA vaccination
Lorenzo Agostino Citterio (Milan)

10.00-10.15 **OC33:** Mucosal immune response in BNT162B2 COVID-19 vaccine recipients
Greta Forlani (Varese)

10.15-10.30 **OC34:** The protection from CMV infection in solid organ transplants is highly dependent on CMV T-cell specific immunity and type of organ transplant
Davide Abate (Padua)

PARALLEL SESSIONS	
Auditorium	Mirabilis
SESSION 11 Viral pathogenesis and Disease Chairs: Guido Antonelli (Rome), Maurizio Zazzi (Siena)	SESSION 12 Antiviral Therapy Chairs: Arnaldo Caruso (Brescia), Gianluigi Franci (Naples)
<u>10.30-10.50</u> Update on hepatitis E virus Maria Rosaria Capobianchi (Rome)	<u>10.30-10.50</u> Tetravalent Antibody Drugs for Ultrapotent and Broad Neutralization of SARS-CoV-2 Variants Giuseppe Novelli (Rome)
<u>10.50-11.10</u> Update on HBV/HCV/HDV virology and diagnostics Francesca Ceccherini-Silberstein (Rome)	<u>10.50-11.10</u> Searching for direct acting agents targeted to SARS-CoV-2 proteins Enzo Tramontano (Cagliari)
<u>11.10-11.30</u> Update on HBV/HCV/HDV therapeutics Raffaele Bruno (Pavia)	<u>11.10-11.30</u> Estrogen Signaling in Infectious Diseases Marcello Allegretti (L'Aquila)
<u>11.30-11.45</u> OC35: Trojan horses and cassandran predictors, the role of immune cells and mediators in SARS-CoV-2 infection Josè Camilla Sammartino (Pavia)	<u>11.30-11.50</u> Fixed Dose Combinations of Drugs Synergistically Active Against SARS-CoV-2 Franco Lori (Alghero)
<u>11.45-12.00</u> OC36: The integrin $\alpha\beta 3$ mediates SARS-CoV-2 entry into ACE2-negative endothelial cells Antonella Bugatti (Brescia)	<u>11.50-12.05</u> OC39: Potent antiviral activity of new generation HIV-1 maturation inhibitors on human primary cells Leonardo Duca (Rome)
<u>12.00-12.15</u> OC37: The direct cleavage of caspase-8 during HSV-1 infection is due to US11 tegument protein and triggers ATG3 degradation to support viral replication Rosamaria Pennisi (Messina)	<u>12.05-12.20</u> OC40: N-acyl ethanolamine acid amidase inhibition affects Zika virus replication Michele Lai (Pisa)
<u>12.15-12.30</u> OC38: SARS-CoV-2 infection in cystic fibrosis: the role of CFTR mutation/downregulation Valentina Gentili (Ferrara)	<u>12.20-12.30</u> OC41: Regulation of m6A methylation as a new therapeutic option against respiratory viral infection Veronica Folliero (Naples)

Tuesday July 5th, 2022

PLENARY SESSION

Auditorium

SESSION 13 Highlights in HIV pathogenesis and therapy

Chair: **Matteo Porotto** (Naples)

12.30-12.50 HIV-1 mutants expressing B cell clonogenic matrix protein p17 variants are increasing their prevalence worldwide
Francesca Caccuri (Brescia)

12.50-13.10 New frontiers in HIV therapeutics
Francesco Castelli (Brescia)

13.10-13.30 **Luria and Viruses Award 2022**

13.30 Closing remarks

Delivery and compilation CME questionnaire

PLENARY SESSION

14.00-17.00 **VirSudNet Symposium**

Three years of a national project on antivirals within the COVID-19 pandemic

Project Presentation

Massimiliano Galdiero (Naples, Italy)

VirSudNet: the experience of the IBB-CNR Naples

Nunzianna Doti (Naples, Italy)

VirSudNet: the experience of the University of Cagliari

Giuseppina Sanna (Cagliari, Italy)

VirSudNet: the experience of the University of Campania

Annalisa Chianese (Naples, Italy)

VirSudNet: the experience of the University of Messina

Antonio Mastino (Messina, Italy)

VirSudNet: the experience of the University of Palermo

Federica Cacioppo (Palermo, Italy)

VirSudNet: the experience of the University of Calabria

Michele Pellegrino (Cosenza, Italy)

Discussion and Perspectives:

**Massimiliano Galdiero, Antonio Mastino, Stefano Aquaro,
Giovanni Giammanco, Aldo Manzin, Nunzianna Doti**

● Poster & Oral Communications

- PO 1** Trends of HIV-1 drug resistance and APOBEC related stop codons in PBMC compartment over the last decade - **Daniele Armenia** (Rome)
- PO 2** Evaluation of the quantiferon SARS-CoV-2 interferon- γ (INF- γ) release assay in two cohort of BNT162b vaccinated fragile patients - **Stefano Brusa** (Naples)
- PO 3** Total HDV Ab reflex test enables identification of submerged cases
Stefano Brusa (Naples)
- PO 4** Comparison of SARS-CoV-2 RNA detection in saliva or nasopharyngeal swab specimens - **Anna Casabianca** (Urbino)
- PO 5** Unusual circulation of RSV during the COVID-19 pandemic in North-east of Italy
Carolina Cason (Trieste)
- PO 6** **OC 8** - ToRCH agents retrospective 10-years seroprevalence survey in women of childbearing age in Sicily - **Emilia Palazzotto** (Palermo)
- PO 7** Validation and comparison of four molecular kits for in vitro diagnosis of SARS-CoV-2 infection - **Flavia Favilli** (Pisa)
- PO 8** **OC 6** - Chromosomally integrated human herpesvirus 6: laboratory and clinical features - **Liliana Gabrielli** (Bologna)
- PO 9** Detection of SARS-CoV-2 in salivary samples by immunofluorescence assay
Silvia Gioacchini (Rome)
- PO 10** **OC 7** - Detection of measles specific IgM/IgG by in house ELISA based on recombinant n protein - **Maedeh Kojouri** (Rome)
- PO 11** Two years of ongoing observations of respiratory viruses infection rate in pandemic SARS-CoV-2 period using BioFilmArray Respiratory Panel 2.1plus in symptomatic patients - **Sandro Grelli** (Rome)
- PO 12** Evaluation of JCPyV viruria, viremia, serostatus and microRNA expression as biomarkers to manage multiple sclerosis patients undergoing immunosuppressive treatment - **Carla Prezioso** (Rome)
- PO 13** Early detection of SARS-CoV-2 variant of concern by SNPs mutation as driver of appropriate monoclonal antibody therapy in pediatric patients - **Cristina Russo** (Rome)
- PO 14** Evaluation of a SARS-CoV-2 quantitative antigen test in the follow-up of infected patients - **Luana Coltella** (Rome)
- PO 15** Comparison of two SARS-CoV-2 rapid antigenic tests during a population screening
Nadia Marascio (Catanzaro)
- PO 16** Immune profiling of SARS-CoV-2 epitopes in asymptomatic and symptomatic paediatric and adult patients - **Anna Lucia Tornesello** (Naples)
- PO 17** SARS-CoV-2 and influenza co-infection during COVID-19 pandemic: data from seasons 2020/2021 and 2021/2022 - **Davide Treggiari** (Verona)
- PO 18** Evaluation of cellular response and production of Interferon- γ to CMV in transplant patients - **Elisa Zanotto** (Turin)
- PO 19** **OC 20** - A small-molecule inhibitor of human papillomavirus E7 oncoprotein rescues cellular PTPN14 levels and possesses antitumoral activity - **Chiara Bertagnin** (Padua)

- PO 20** Papillomavirus induced feline oral squamous cell carcinoma, EGFR and Cetuximab as possible therapy - **Giuseppe Borzacchiello** (Naples)
- PO 21** Dual cytoplasmic and nuclear localization of HTLV-1-encoded HBZ protein is a unique feature of T adult cell leukemia - **Greta Forlani** (Varese)
- PO 22** **OC 17** - Synergism of the oncolytic adenovirus dl922-947 and G-quadruplex binder pyridostatin against breast cancer - **Fabiana Napolitano** (Naples)
- PO 23** **OC 22** - Dissecting the basis of herpesvirus associated proliferative skin diseases in lower vertebrates. A model for DNA-virus associated proliferative and neoplastic diseases - **Francesco Origgi** (Berna, Switzerland)
- PO 24** Detection of human neurotropic JCPyV DNA sequence in pediatric pleomorphic xanthoastrocytoma - **Sara Passerini** (Rome)
- PO 25** **OC 21** - Structural characterization of HIV-1 matrix protein p17 variants to develop specific functional inhibitors - **Alessandro Rondina** (Brescia)
- PO 26** **OC 25** - The endogenous HBZ interactome in ATL leukemic cells reveals an unprecedented complexity of host interacting partners involved in RNA splicing **Mariam Shallak** (Varese)
- PO 27** **OC 23** - First detection of a cluster of sexually transmitted HIV-1 mutants expressing a B-cell clonogenic variant of p17 - **Alberto Zani** (Brescia)
- PO 28** **OC 18** - An improved sequencing approach to fully profile SARS-CoV-2 pandemics at regional level, identify new variants and describe infection signatures in patients **Antonio Grimaldi** (Pozzuoli, NA)
- PO 29** An inducible CRISPR/Cas9 system for the gene editing of HIV-1 latently infected cells **Gloria Magro** (Padua)
- PO 30** In vitro and in ovo validation of monocytes as carrier cells for oncolytic HSV-1 **Alberto Reale** (Padua)
- PO 31** A case of XE SARS-CoV-2 recombinant variant identified at the laboratory of microbiology and virology of the Cotugno Hospital - **Claudia Tiberio** (Naples)
- PO 32** Multiple oncolytic HSV-1 vectors allow efficient and simultaneous expression of different therapeutic genes - **Adriana Vitiello** (Padua)
- PO 33** SARS-CoV-2 infection of human ovarian cells: an in vitro model for the detection of the virus entry into the host cells - **Niccolò Bartolini** (Siena)
- PO 34** Herpesvirus infections in KIR2DL2 positive Multiple sclerosis patients: mechanisms triggering autoimmunity - **Silvia Beltrami** (Ferrara)
- PO 35** Competition among two SARS-CoV-2 quasi-species using different mechanisms to enter into human lung cells - **Anna Bertelli** (Brescia)
- PO 36** Differential TLR9 and type I IFNs expression in upper airways of Merkel cell polyomavirus positive Cystic Fibrosis patients - **Federica Frasca** (Rome)
- PO 37** **OC 36** - The integrin $\alpha v \beta 3$ mediates SARS-CoV-2 entry into ACE2-negative endothelial cells - **Antonella Bugatti** (Brescia)
- PO 38** Human papillomavirus type 16 E6 induces the activation of pelp1 proto-oncogene causing over-production of E6*_i isoform in cervical cancer - **Andrea Cerasuolo** (Naples)

- PO 39 OC 19** - Molecular and structural characterization of SARS-CoV-2-induced cellular remodeling - **Mirko Cortese** (Pozzuoli, NA)
- PO 40** Proper selection of *in vitro* cell model affects the characterization of the neutralizing antibody response against SARS-CoV-2 - **Elena Criscuolo** (Milan)
- PO 41 OC 9** - Transcriptionally active HBV integrations frequently occur in the early phases of chronic infection and mostly involve genetic regions crucial for cell proliferation - **Stefano D'Anna** (Rome)
- PO 42** Dissecting the NRF2 pathway and its impact on the redox changes and the inflammatory response upon SARS-CoV-2 and influenza virus infections - **Marta De Angelis** (Rome)
- PO 43 OC 11** - IFI16 impacts metabolic reprogramming during human cytomegalovirus infection - **Valentina Dell'Oste** (Turin)
- PO 44 OC 12** - A complex signaling pathway involving NF- κ B, JAK/STAT, and gp130 is activated by CCL2 neutralization to induce the expression of HIV-1 restriction factors in primary human macrophages - **Iole Farina** (Rome)
- PO 45** HSPGs as co-receptors for integrin-mediated SARS-CoV-2 entry into endothelial cells - **Federica Filippini** (Brescia)
- PO 46 OC 41** - Regulation of m6A methylation as a new therapeutic option against respiratory viral infection - **Veronica Folliero** (Naples)
- PO 47** Alterations in IFN-omega expression and anti-IFN-omega neutralizing antibodies in severe COVID-19 patients - **Federica Frasca** (Rome)
- PO 48** AKT activation is involved in FOXG1 downregulation during Zika virus infection - **Giulia Freer** (Pisa)
- PO 49 OC 38** - SARS-CoV-2 infection in cystic fibrosis: the role of CFTR mutation/downregulation - **Valentina Gentili** (Ferrara)
- PO 50** The influence of type I and II IFNs on the extracellular vesicles produced by THP-1 PMA differentiated cells - **Flavia Giannessi** (Rome)
- PO 51** SARS-CoV-2 IFN- β antagonism: a comparative study on emergent virus variants - **Gianni Gori Savellini** (Siena)
- PO 52 OC 16** - Human endogenous retroviruses (HERVs) transcriptome in PBMC is modulated during SARS-CoV-2 infection and allows to discriminate COVID-19 clinical stages - **Nicole Grandi** (Cagliari)
- PO 53** Prevalence of Hepatitis C Viremia in Heart Transplant Recipients: A Single-Center Experience - **Domenico Iossa** (Naples)
- PO 54** PNPLA3 and HSD17b13 polymorphisms influenced liver fibrosis development in a small cohort of Italian patients with viral hepatitis - **Domenico Iossa** (Naples)
- PO 55** Pre-pandemic human sera from individuals with natural measles infection show reactivity against Spike and N proteins SARS-CoV-2 - **Maedeh Kojouri** (Rome)
- PO 56 OC 14** - Interferon-gamma levels in umbilical cord blood of newborns from SARS-CoV-2 affected mothers - **Evelina La Civita** (Naples)

- PO 57** N-acylethanolamine acid amide hydrolase inhibition decreases RNA+ viral replication by dismantling lipid droplets and activating selective autophagy - **Veronica La Rocca** (Pisa)
- PO 58** Impact of CFTR modulation on SARS-CoV-2 replication in human bronchial epithelial cells - **Virginia Lotti** (Verona)
- PO 59** Zika virus induces FOXG1 nuclear displacement and down-regulation that can be prevented with growth factors - **Giulia Lottini** (Siena)
- PO 60** The US12 protein is the second viroporin encoded by the US12 gene family of human cytomegalovirus: when two is better than one - **Anna Luganini** (Turin)
- PO 61** Exploration of possible role of cellular micro-RNA in HSV-1/cell interaction by a bioinformatic and experimental dual approach - **Antonio Mastino** (Rome)
- PO 62** The transactivation of endogenous retroviruses correlates with HIV reservoir, lymphocytes activation and low CD4 count in virologically suppressed patients - **Claudia Matteucci** (Rome)
- PO 63** Maternal dietary lipids as risk factor of zika virus vertical transmission in a rodent model - **Eva Mazzetto** (Padua)
- PO 64** Dynamic of quasispecies in long term SARS-CoV-2 immunocompromised infected host - **Serena Messali** (Brescia)
- PO 65** HERVs expression in development, progression, and long-term complications of COVID-19 - **Antonella Minutolo** (Rome)
- PO 66** HSV-1-induces complement activation in brain cells: possible trigger of synaptic deficits - **Mariya Timotey Miteva** (Rome)
- PO 67** **OC 37** - The direct cleavage of caspase-8 during HSV-1 infection is due to US11 tegument protein and triggers ATG3 degradation to support viral replication - **Rosamaria Pennisi** (Messina)
- PO 68** **OC 24** - The enrichment of positively charged amino acids in HBsAg C-terminus impairs HBsAg secretion, affects its structural stability and is correlated with HBV-induced liver cancer - **Lorenzo Piermatteo** (Rome)
- PO 69** HSV-1 infection and DYRK1A kinase: a potential target for virus-related neurodegenerative events - **Virginia Protto** (Rome)
- PO 70** Cellular neurodegeneration induced by SARS-CoV-2 replication - **Paola Quaranta** (Pisa)
- PO 71** Circulating microrna signatures associated with disease severity and outcome in COVID-19 patients - **Silvia Riccetti** (Padua)
- PO 72** Gestational COVID-19 effect on CD147, ACE2 and HLA-G expression - **Sabrina Rizzo** (Ferrara)
- PO 73** **OC 35** - Trojan horses and Cassandran predictors, the role of immune cells and mediators in SARS-CoV-2 infection - **José Camilla Sammartino** (Pavia)
- PO 74** Interaction of U24 from Human Herpes Virus 6B with Nedd4 WW and Fyn-SH3 domains: the importance of phosphorylation and potential link to MS - **Giovanna Schiuma** (Ferrara)

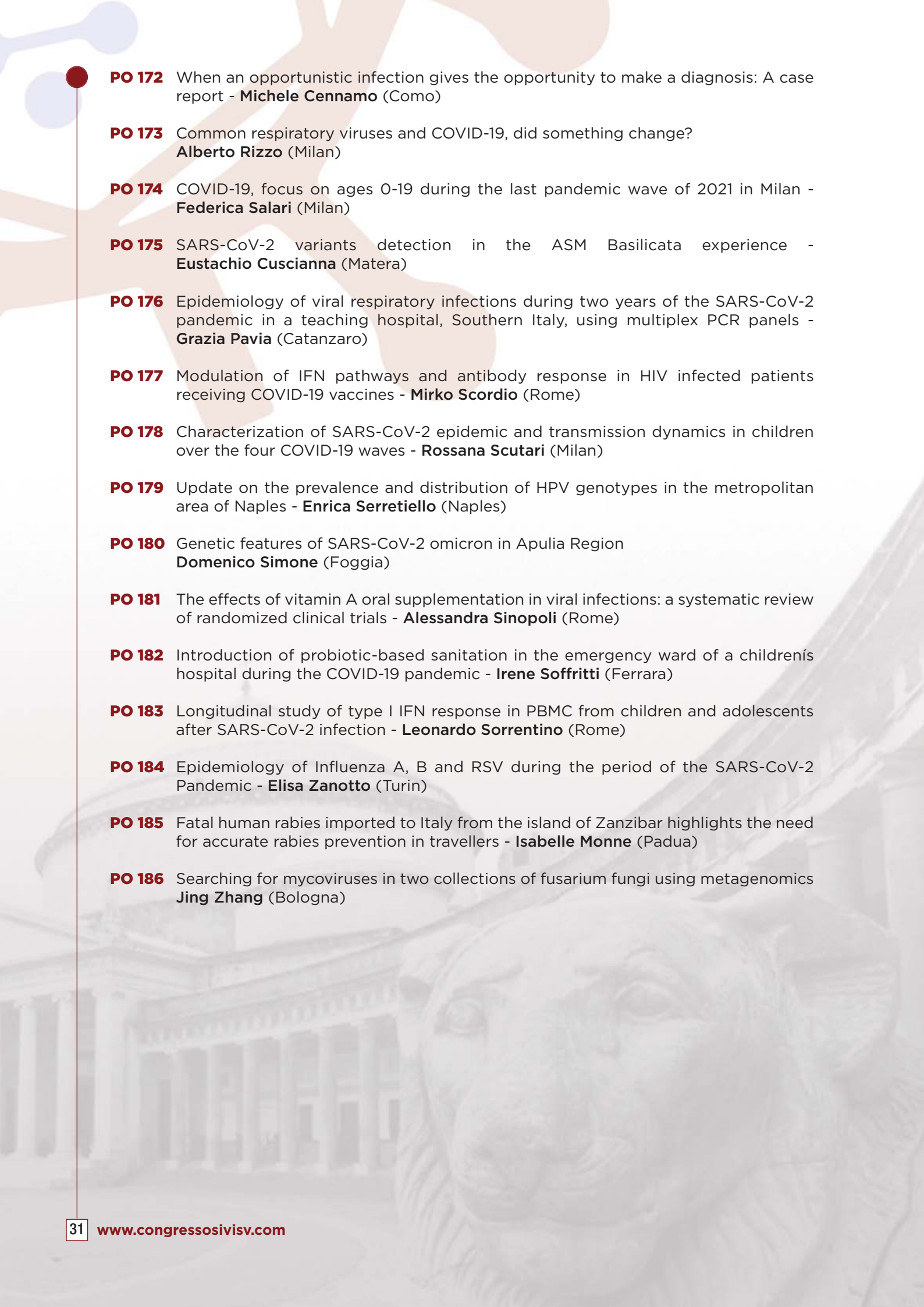
- PO 75** Human papillomavirus E6*I expression and tert promoter mutation in distinct subtypes of head and neck cancers - **Noemy Starita** (Naples)
- PO 76** The NRF2 antioxidant response is down-modulated in under 10-years old children positive to SARS-CoV-2: negative correlation with the class I and III interferon (INF) gene expression - **Walter Toscanelli** (Rome)
- PO 77** Latent infection of resting and activated CD4+ T cells by HIV-1 pseudotyped with Env molecules carrying a heterologous gp41 C-terminal tail - **Sara Virtuoso** (Rome)
- PO 78** Antiviral activity from the extremophilic *Galdieria sulphuraria* - **Annalisa Ambrosino** (Naples)
- PO 79** **OC 31** - Analysis of the immune response to measles virus in vaccinees and naturally infected subjects - **Gabriele Anichini** (Siena)
- PO 80** Prospective evaluation of humoral and T-cell response elicited by third mRNA vaccination in kidney transplant recipients - **Francesca Adua Arena** (Pavia)
- PO 81** Novel antiviral activity of PADS inhibitors against human beta-coronaviruses SARS-CoV-2 and HCoV-OC43 - **Greta Bajetto** (Novara)
- PO 82** Humoral and cell-mediated response elicited by triple dose vaccination in healthcare workers: a prospective longitudinal study - **Federica Bergami** (Pavia)
- PO 83** Potent influenza virus PA-PB1 interaction inhibitors exhibit broad-spectrum activity and synergism with anti-influenza drugs - **Anna Bonomini** (Padua)
- PO 84** T-cell assay after covid-19 vaccination could be a useful tool? A pilot study on interferon-gamma release assay in healthcare workers - **Francesco Broccolo** (Monza)
- PO 85** Study of the effects on new small molecules as antiviral agents against SARS-CoV-2 - **Alice Cara** (Pisa)
- PO 86** Amphibian antimicrobial peptides and their antiviral activity - **Annalisa Chianese** (Naples)
- PO 87** **OC 32** - Dynamic of IgA production in saliva of healthcare workers after Biontech/Pfizer BNT162b2 mRNA vaccination - **Lorenzo Agostino Citterio** (Milan)
- PO 88** Characterization of the anti-rhinovirus activity of 25-hydroxycholesterol and 27-hydroxycholesterol, and validation on nasal and bronchial histocultures - **Andrea Civra** (Orbassano, TO)
- PO 89** SARS-CoV-2 antibody response in solid organ transplant patients after mRNA BNT162b2: data from an observational prospective study - **Francesco Cogliati Dezza** (Rome)
- PO 90** Deep-look into Dolutegravir therapy failure mechanism: could mutations in the 3'-PPT support HIV-1 replication without integration? - **Angela Corona** (Cagliari)
- PO 91** Antimicrobial peptides activity on murine norovirus and hepatitis A virus infectivity - **Loredana Cozzi** (Rome)
- PO 92** Engineering of different antibody formats to elicit an anti-HIV humoral response - **Roberta Antonia Diotti** (Milan)
- PO 93** **OC 39** - Potent antiviral activity of new generation HIV-1 maturation inhibitors on human primary cells - **Leonardo Duca** (Rome)

- PO 94** Structural and biochemical analysis of the dual inhibition of MG-132 against SARS-CoV-2 main protease (Mpro/3CLpro) and human cathepsin-L - **Francesca Esposito** (Cagliari)
- PO 95** Efficacy of licensed monoclonal antibodies and antiviral agents against the SARS-CoV-2 omicron sub-lineages BA.1 and BA.2 - **Lia Fiaschi** (Siena)
- PO 96** The role of NAAA inhibition in reducing SARS-CoV-2-induced cytokine release and viral replication in human monocytes - **Carolina Filippini** (Pisa)
- PO 97** Inhibitory effect of eye drop solutions against SARS-CoV-2 infection - **Francesco Foglia** (Naples)
- PO 98** Palmitoylethanolamide (PEA) inhibits SARS-CoV-2 entry by interacting with S protein and ACE-2 receptor - **Rossella Fonnesu** (Pisa)
- PO 99** **OC 33** - Mucosal immune response in BNT162b2 COVID-19 vaccine recipients - **Greta Forlani** (Varese)
- PO 100** Identification of new fused bicyclic derivatives of pyrrolidine and 4-imidazolinone as ZIKV and USUV inhibitors - **Rachele Francese** (Turin)
- PO 101** Evaluation of the in vitro combinatorial activity of ibalizumab and HIV-1 antivirals - **Federica Giammarino** (Siena)
- PO 102** The antiviral potential of grapes and saffron plant extracts against SARS-CoV-2: the tuscavia project - **Elena Iacono** (Pisa)
- PO 103** Immunological profiles of T cell compartments in the immune response to SARS-CoV-2 - **Marco Iuliano** (Rome)
- PO 104** **OC 40** - N-acyl ethanolamine acid amidase inhibition affects zika virus replication - **Michele Lai** (Pisa)
- PO 105** Polymeric nanoparticles loaded antiviral peptide efficiently inhibits SARS-CoV-2 - **Avinash Mali** (Naples)
- PO 106** **OC15** - Monitoring of humoral response in healthcare workers receiving Biontech/Pfizer BNT162b2 mRNA vaccination - **Roberta Mancuso** (Milan)
- PO 107** In vitro antiviral effects of bombinin H2/H4 against enveloped viruses - **Maria Elena Marcocci** (Rome)
- PO 108** Effect of remdesivir on SARS-CoV-2 replication and subgenomic RNAs expression *in vitro* - **Antonio Mori** (Verona)
- PO 109** The antiviral activity of the amphibian peptide ar-23 - **Maria Vittoria Morone** (Naples)
- PO 110** Sotrovimab-emergent resistance in immunocompromised COVID-19 patients **Federica Novazzi** (Varese)
- PO 111** In vitro antiviral activity of a cranberry *Vaccinium macrocarpon* extract against Ebola virus and Rabies virus - **Denis Pasqual** (Padua)
- PO 112** In search of novel antiviral strategies: newly identified molecules induce type I Interferon expression through STING dependent pathway - **Annalaura Paulis** (Cagliari)

- PO 113** Development of SARS-CoV-2 IgM after 1st vaccine dose predicts longer immunity - **Alessandra Ruggiero** (Verona)
- PO 114** New quantitative CMV RNA assay for viral load monitoring in Letermovir prophylaxis in children undergoing allogeneic HSCT - **Cristina Russo** (Rome)
- PO 115** Identification of new SARS-CoV-2 main protease inhibitors by an integrated in-silico and in-vitro strategy - **Cristiano Salata** (Padua)
- PO 116** Development of protective immunity after BNT162b2 third dose in subjects with immuno-mediated inflammatory disease (IMiDs) and treated with anti-CD20 drugs **Giuseppina Sanna** (Cagliari)
- PO 117** Design of three residues peptides against SARS-CoV-2 infection **Biagio Santella** (Naples)
- PO 118** Evaluation of the antiviral activity of a panel of compounds against SARS-CoV-2 - **Maria Sidoti** (Pisa)
- PO 119** Early immune signature as correlate of protective antibody response to the BNT162b2 mRNA vaccine - **Alessandro Sinigaglia** (Padua)
- PO 120** Strategies for nucleic acid-based antiviral molecules targeting the genetic packaging regions of the SARS-CoV-2 - **Maria Alfreda Stincarelli** (Florence)
- PO 121** GlicoPro, novel standardized and sterile snail mucus extract for multi-modulative ocular formulations: new perspective in management of eye diseases - **Giovanni Strazzabosco** (Ferrara)
- PO 122** Natural raw and roasted unsalted pistachio kernels exhibit anti-HSV-1 activity in vero cells - **Maria Pia Tamburello** (Messina)
- PO 123** Effects of essential oils and hydrolates on the infectivity of noroviruses - **Teresa Vicenza** (Rome)
- PO 124** Potential activity of fungal secondary metabolite 6-pentyl- α -pyrone against canine coronavirus - **Claudia Cerracchio** (Naples)
- PO 125** Heterogeneity of Hepatitis E virus strains detected in wild boar **Gabriele Vaccari** (Rome)
- PO 126** Presence of hepatitis e virus in italian pig farms - **Gabriele Vaccari** (Rome)
- PO 127** **OC 4** - Detection and characterization of bopiviruses in domestic and wild ruminants, Italy - **Andrea Palombieri** (Teramo)
- PO 128** Antiviral activity of arachidonic acid and its cyclopentenone metabolites against canine and feline coronaviruses - **Silvia Pauciullo** (Rome)
- PO 129** **OC 1** - Detection of a recombinant torovirus in cattle - **Francesco Pellegrini** (Bari)
- PO 130** Low prevalence of Hepatitis E virus in food products from a hyperendemic region (Abruzzo, Italy) - **Farzad Beikpour** (Rome)
- PO 131** Astroviruses of the marine environment in Italy - **Farzad Beikpour** (Rome)
- PO 132** Study on the circulation of coronaviruses in hedgehogs (*Erinaceus europaeus*) in the municipality of Rome - **Gabriele Vaccari** (Rome)

- PO 133 OC 3** - Circular single-stranded DNA viruses in cats - **Violetta Vasinioti** (Bari)
- PO 134** Tick-borne encephalitis associated to the consumption of cheese from raw goat milk: a case report - **Teresa Vicenza** (Rome)
- PO 135 OC 2** - Peptides modelled on the glycoprotein Gn and Gc of Schmallenberg virus inhibit viral infectivity - **Carla Zannella** (Naples)
- PO 136 OC 28** - Enteric viruses circulation in the environment and their occurrence in cases of infantile gastroenteritis - **Maria Grazia Amoroso** (Portici)
- PO 137** The nucleocapsid protein of coguviruses acts as a weak RNA silencing suppressor - **Francesco Di Serio** (Bari)
- PO 138** Mycoviruses infecting the oomycete *Bremia lactucae* - **Marco Forgia** (Turin)
- PO 139** Norovirus genogroups I and II and related genotypes in urban wastewaters in Rome, Italy, detected by next generation amplicon sequencing - **Carolina Veneri** (Rome)
- PO 140** Hepatitis E virus in water environments and pig slurry from Abruzzo region, Italy - **Pamela Mancini** (Rome)
- PO 141** The rapid spread of SARS-CoV-2 omicron variant in Italy reflected early through wastewater surveillance - **Giuseppina La Rosa** (Rome)
- PO 142 OC 29** - Tracking SARS-CoV-2 variants in Italy (october 2021-march 2022) using the national wastewater-based surveillance system - **Giusy Bonanno Ferraro** (Rome)
- PO 143** Transcriptomic profiles of sour orange seedlings inoculated with two citrus tristeza virus isolates of the same genotype and different phenotype
Grazia Licciardello (Acireale, CT)
- PO 144** Molecular characterization of an italian isolate of citrus variegation virus
Beatriz Navarro (Bari)
- PO 145** The C4 protein of tomato yellow leaf curl sardinia virus primes drought tolerance in tomato - **Emanuela Noris** (Turin)
- PO 146 OC 30** -Cutting edge application of raman spectroscopy for the diagnosis of virus infection in two major crops, tomato and grapevine - **Emanuela Noris** (Turin)
- PO 147** (+)RNA virus replication-associated protein expression in *Saccharomyces cerevisiae*
Luisa Rubino (Bari)
- PO 148** Effect of ultrasonic premixing on hepatitis a virus infectivity - a preliminary study - **Loredana Cozzi** (Rome)
- PO 149** Update about the presence of tomato spotted wilt orthotospovirus (TSWV) resistance breaking (RB) isolates in tomato and pepper crops in Central-south Italy
Antonio Tiberini (Rome)
- PO 150 OC 26** - Ambivirus: a new Baltimore class of viruses? - **Massimo Turina** (Turin)
- PO 151** Wastewater surveillance for tracking SARS-CoV-2 in Tuscany - **Sara Muzio** (Pisa)
- PO 152 OC 27** - Multipartite BNYVV genomic RNAs change their relative frequencies according to the infected host and organ and after transmission in the vector - **Yi Guo** (Bologna)

- PO 153 OC 34** - The protection from CMV infection in solid organ transplants is highly dependent on CMV T-cell specific immunity and type of organ transplant - **Davide Abate** (Padua)
- PO 154** Complex expression profile of herbs and inflammatory mediators in nasal mucosa as early biomarker of COVID-19 severity - **Emanuela Balestrieri** (Rome)
- PO 155 OC 13** - Performance of home-made whole blood stimulation assays for the quantification of SARS-CoV-2 specific T-cell response: a cross-sectional study - **Federica Bergami** (Pavia)
- PO 156 OC 10** - Effect of SARS-CoV-2 on the coagulation cascade in COVID-19 associated coagulopathies - **Daria Bortolotti** (Ferrara)
- PO 157** Diffusion of SARS-CoV-2 omicron variant in Campania region between november 2021 and december 2021 - **Stefano Brusa** (Naples)
- PO 158** Circulating collagen metabolites and the enhanced liver fibrosis (ELF) score as disease severity markers in SARS-CoV-2 infection - **Stefano Brusa** (Naples)
- PO 159** Enhanced liver fibrosis score as noninvasive biomarker in HCV patients after DAAs - **Stefano Brusa** (Naples)
- PO 160** COVID-19 during pregnancy: pro-inflammatory status in seric and funicular samples, and bacterial gut-vagina translocation - **Giuseppina Campisciano** (Trieste)
- PO 161** Antiviral properties of a probiotic-based detergent: implication for COVID-19 prevention - **Maria D'Accolti** (Ferrara)
- PO 162** Prevalence of viral co-infection and antibiotics therapy among COVID-19 patients - **Maria Teresa Della Rocca** (Caserta)
- PO 163** Assessment of maternal and neonatal SARS-CoV-2 antibodies in Northern Italy in pre-vaccination era - **Liliana Gabrielli** (Bologna)
- PO 164** Change in the prevalence of hepatitis C virus (HCV) genotypes in the area Lariana during the COVID-19 pandemic - **Michele Cennamo** (Como)
- PO 165** Genomic epidemiology and heterogeneity of SARS-CoV-2 in Umbria region from January 2021 to December 2021 - **Carla Sebastiani** (Perugia)
- PO 166** Tracking SARS-CoV-2 variants of concern in nasopharyngeal swabs from military and civilian personnel of an air force airport in central Italy: one year monitoring - **Giuseppina La Rosa** (Rome)
- PO 167** Rapid SARS-CoV-2 intra-host and within-household emergence of novel haplotypes - **Laura Manuto** (Padua)
- PO 168** Epidemiological and evolutionary analysis of west nile virus lineage 2 in Italy - **Giulia Mencattelli** (Teramo)
- PO 169** SARS-CoV-2 variants and the inference of correlates of protection based on neutralizing antibodies and anti-S-RBD IgG levels - **Matteo Pagliari** (Legnano)
- PO 170** Pediatric RSV infection during the COVID-19 pandemic - **Vittorio Panetta** (Caserta)
- PO 171 OC 5** - Molecular epidemiology of RSV strains causing an unusual peak of hospitalization in autumn 2021 - **Matteo Fracella** (Rome)

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- PO 172** When an opportunistic infection gives the opportunity to make a diagnosis: A case report - **Michele Cennamo** (Como)
- PO 173** Common respiratory viruses and COVID-19, did something change? **Alberto Rizzo** (Milan)
- PO 174** COVID-19, focus on ages 0-19 during the last pandemic wave of 2021 in Milan - **Federica Salari** (Milan)
- PO 175** SARS-CoV-2 variants detection in the ASM Basilicata experience - **Eustachio Cuscianna** (Matera)
- PO 176** Epidemiology of viral respiratory infections during two years of the SARS-CoV-2 pandemic in a teaching hospital, Southern Italy, using multiplex PCR panels - **Grazia Pavia** (Catanzaro)
- PO 177** Modulation of IFN pathways and antibody response in HIV infected patients receiving COVID-19 vaccines - **Mirko Scordio** (Rome)
- PO 178** Characterization of SARS-CoV-2 epidemic and transmission dynamics in children over the four COVID-19 waves - **Rossana Scutari** (Milan)
- PO 179** Update on the prevalence and distribution of HPV genotypes in the metropolitan area of Naples - **Enrica Serretiello** (Naples)
- PO 180** Genetic features of SARS-CoV-2 omicron in Apulia Region **Domenico Simone** (Foggia)
- PO 181** The effects of vitamin A oral supplementation in viral infections: a systematic review of randomized clinical trials - **Alessandra Sinopoli** (Rome)
- PO 182** Introduction of probiotic-based sanitation in the emergency ward of a children's hospital during the COVID-19 pandemic - **Irene Soffritti** (Ferrara)
- PO 183** Longitudinal study of type I IFN response in PBMC from children and adolescents after SARS-CoV-2 infection - **Leonardo Sorrentino** (Rome)
- PO 184** Epidemiology of Influenza A, B and RSV during the period of the SARS-CoV-2 Pandemic - **Elisa Zanutto** (Turin)
- PO 185** Fatal human rabies imported to Italy from the island of Zanzibar highlights the need for accurate rabies prevention in travellers - **Isabelle Monne** (Padua)
- PO 186** Searching for mycoviruses in two collections of fusarium fungi using metagenomics **Jing Zhang** (Bologna)

General Information

REGISTRATION

www.congressosivisv.com

METHODS OF PAYMENT

- Bank transfer BIC: BCITITMM
IBAN: IT66L0306911310100000069654
Nadirex International Srl
- Credit card

Registration Type (22% VAT included)	Registration Fee by May 31 st , 2022	Registration Fee after May 31 st , 2022
RES CONGRESS SIV-ISV NON-MEMBER Medical Doctor, Veterinarian, Pharmacist, Biologist/Biotechnologist, Medical laboratory technician, Nurse The fee includes: - registration at congress - registration in SIV-ISV for 2022	€ 200,00 (€ 164,00 + 36,00 VAT at 22%)	€ 250,00 (€ 205,00 + 45,00 VAT at 22%)
RES CONGRESS SIV-ISV MEMBER Medical Doctor, Veterinarian, Pharmacist, Biologist/Biotechnologist, Medical laboratory technician, Nurse	€ 150,00 (€ 123,00 + 27,00 VAT at 22%)	€ 200,00 (€ 164,00 + 36,00 VAT at 22%)
FAD CONGRESS Medical Doctor, Veterinarian, Pharmacist, Biologist/Biotechnologist, Medical laboratory technician, Nurse	€ 120,00 (€ 98,00 + 22,00 VAT at 22%)	
RES AND FAD CONGRESS Post-graduate student / Scholarship fellow / Student / Research fellow	Free	

REGISTRATION FEE

The registration fee includes:

- Participation in scientific works
- Congress kit
- Certificate of participation and ECM Certificate
- Coffee breaks and working lunches as per programme
- Social dinner - Monday July 4th, 2022
- Post event educational material
- Abstract Book

Residential Congress: General Information

CONGRESS VENUE

Hotel Royal Continental
Via Partenope - Naples, Italy

SECRETARIAT

Participants may come to the Organising Secretariat at the Congress venue as follows:
Sunday 3th July 2022 from 12:00 N to 08:30 PM
Monday 4th July 2022 from 07:30 AM to 08:00 PM
Tuesday 5th July 2022 from 07:30 AM to 05:00 PM

BADGE / CONGRESS KIT / CERTIFICATE OF PARTICIPATION

Handed out at the Organising Secretariat's desk.

The badge MUST be worn to enter the Congress venue and to participate in the scientific works.

CME CERTIFICATE

Emailed within 90 days after the end of the Congress

OFFICIAL LANGUAGE

English

POSTER AREA

The poster area is located between the Sala Gazebo (Gazebo Room) and the Sala Giardino (Garden Room). Authors may affix their posters after registration with the Secretariat. A Hostess will provide the material needed to affix the posters, which will remain on display throughout the Congress.

ABSTRACT BOOK

It may be downloaded from the specific reserved area of www.congressosivisv.com.
The password will be emailed to all regularly registered Congress participants.

WI-FI

There will be a free WI-FI connection in the Secretariat area and in the Stand Area for all participants. Access credentials:

-Username: RG MEETING
-Password: meetingroyal

TECHNICAL-SCIENTIFIC EXHIBIT

Throughout the Congress, there will be a dedicated technical-scientific area with presentations by Pharmaceutical Firms and Scientific Companies. The exhibit will open on Sunday 3 July 2022 at 12 N and close on Tuesday 5 July 2022 at 2 PM.

SLIDES CENTRE

The projection of slides will be managed in the Slide Centre.

Laptops will not be connectable directly to the projector in the room. Speakers are invited to use Power Point for Windows and will have to deliver their materials on a USB (pen drive).

Pen drives must be delivered to the Slide Centre at least 1 hour before the presentation.

GUIDELINES FOR SPEAKERS AND MODERATORS

Moderators are requested to:

- Find the room for the session in advance.
- Be in the room at least 10 minutes before the session starts.
- Strictly respect the times assigned to the session and to individual presentations.

Speakers are requested to:

- Find the room for the session in advance.
- Deliver their materials to the Slide Centre the day before (if possible) or in any case at least 1 hour before the session.
- Be in the room at least 10 minutes before the session starts.

There will be a technician in each room in case of problems or impromptu requests.

● Digital Congress: General Information

E-LEARNING SITE:

www.nadirex.org

LIVE TRANSMISSION OF CONGRESS

Registered participants may view the live broadcast of the Congress by using the buttons on the Digital Congress after authentication on the E-learning platform <https://lin-k.it/fadsivisv> or by means of the link sent along with the reminders of the broadcast.

The Digital Congress will be accessible to the public during the Congress by means of the link <https://lin-k.it/sivisvnolive> on the website. These users will not be able to view the webinar live broadcast.

Questions may be asked in the Zoom chat during the broadcast.

Registered participants may use the assistance chat in the Digital Congress area on all three days of the Congress.

ECM (Educazione Continua in Medicina)

Evento accreditato presso il Ministero della Salute

Destinatari dell'iniziativa:

- **Medico Chirurgo** (Tutte le discipline)
- **Infermiere**
- **Biologo**
- **Farmacista** (Farmacia Ospedaliera, Farmacia Territoriale)
- **Psicologo** (Psicoterapia, Psicologia)
- **Chimico** (Chimica Analitica)
- **Veterinario** (Tutte le discipline)
- **Tecnico Sanitario di Laboratorio Biomedico**

ECM RES N. 265-354341 - Nr. 4,5 crediti formativi - Nr. Partecipanti 300

Per conseguire i crediti ECM relativi all'evento residenziale è obbligatorio:

- Partecipare al 90% delle attività formative
- Compilare correttamente il questionario ECM (l'attribuzione dei crediti è subordinata al superamento del 75% delle risposte corrette)
- Compilare la scheda di qualità percepita evento RES
- Compilare la scheda indagine bisogni formativi
- Firmare il registro presenza all'inizio ed al termine dei lavori
- Aver compilato la dichiarazione di reclutamento da parte di Sponsor (da consegnare all'inizio della giornata)

ECM FAD N. 265-354350 - Nr. 22,5 crediti formativi - Nr. Partecipanti 500

Per conseguire i crediti ECM relativi all'evento FAD è obbligatorio:

- Partecipare al 90% delle attività formative
- Compilare correttamente il questionario ECM (l'attribuzione dei crediti è subordinata al superamento del 75% delle risposte corrette)
- Compilare la scheda di qualità percepita evento FAD
- Compilare la scheda indagine bisogni formativi
- Firmare il registro presenza all'inizio ed al termine dei lavori
- Aver compilato la dichiarazione di reclutamento da parte di Sponsor (da allegare all'atto dell'iscrizione o inviare per mail info@nadirex.com)

DOTAZIONE HARDWARE E SOFTWARE NECESSARIA ALL'UTENTE PER SVOLGERE L'EVENTO

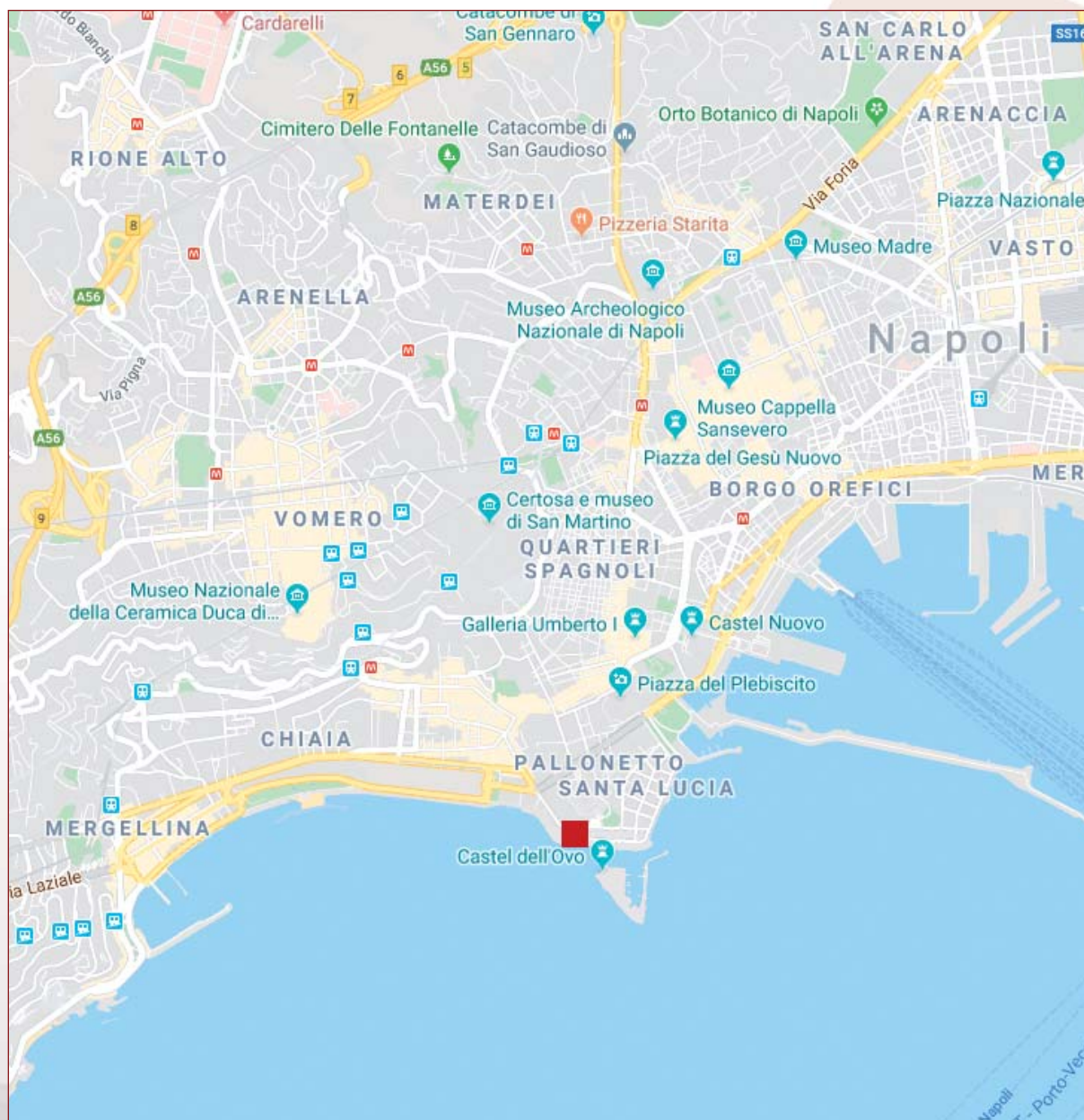
Indirizzo mail (per iscriversi), browser web recente ed aggiornato, connessione ad internet, dispositivi per usufruire dei contenuti didattici (pc, smartphone o tablet) dotati di casse (o cuffie) e microfono.

How to reach the venue

CONGRESS VENUE

HOTEL ROYAL CONTINENTAL

Via Partenope, 38 - 80122 Naples (Italy)



ORGANIZING SECRETARIAT AND PROVIDER CME NR. 265



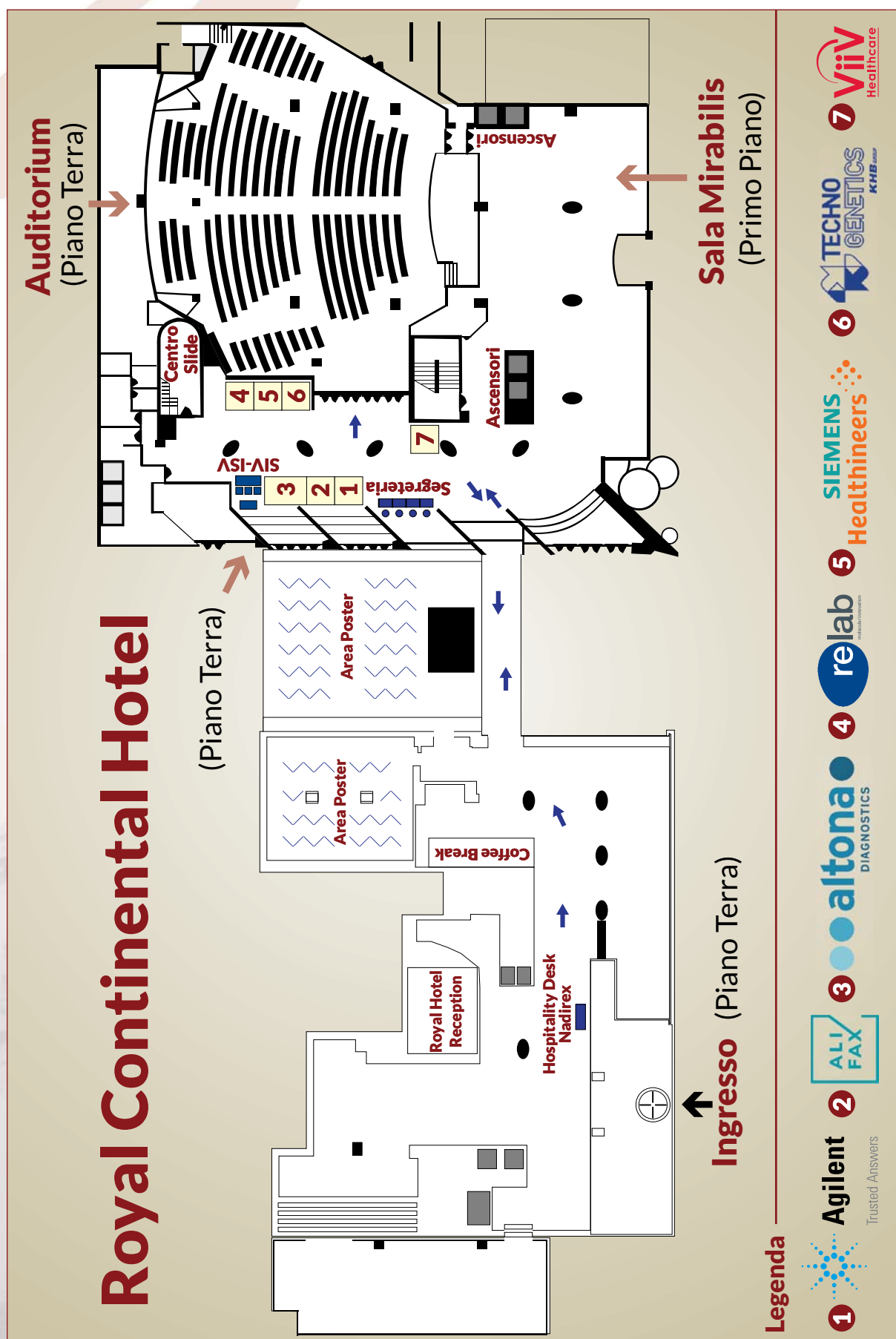
Nadirex International S.r.l.
Via Riviera, 39 - 27100 Pavia
Tel. +39.0382.525714 - Fax. +39.0382.525736
www.nadirex.com - www.congressosivisv.com

Gloria Molla gloria.molla@nadirex.com

Francesca Granata francesca.granata@nadirex.com

Luana Cattaruzza luana.cattaruzza@nadirex.com

● Floor plan of the conferences facility



Digital Congress plan



SCHEDA DI ISCRIZIONE

Iscrizione on-line: www.congressosivsv.com

6th National Congress of the Italian Society for Virology Naples, July 3TH-5TH, 2022

- ☐ **MEDICO CHIRURGO** (Discipline: Tutte le discipline) Disciplina
- ☐ **INFERMIERE** ☐ **BIOLOGO** ☐ **FARMACISTA** ☐ **PSICOLOGO**
- ☐ **CHIMICO** ☐ **VETERINARIO** ☐ **TECNICO SANITARIO DI LABORATORIO BIOMEDICO**
- ☐ **SPECIALIZZANDO/BORSISTA/DOTTORANDO**

Cognome Nome

Luogo / Data di nascita

Codice Fiscale

Professione

Disciplina

Dipendente Libero Professionista Convenzionato Privato di occupazione

Richiedo crediti ECM Non richiedo crediti ECM

Altre informazioni: **Socio SIV-ISV** ☐ SI ☐ NO **Ho presentato un abstract** ☐ SI ☐ NO

Istituto/Divisione/Ente

Indirizzo Istituto/Divisione/Ente

CAP Città Prov.

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Il sottoscritto dichiara di: NON essere stato iscritto da Sponsor Commerciale
ESSERE stato iscritto dal seguente Sponsor Commerciale
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Firma Data

In base al D. Lgs. 196/03 autorizzo Nadirex International s.r.l. al trattamento dei miei dati personali sia in formato cartaceo sia in formato elettronico, ai soli fini dei servizi relativi all'evento compreso il rapporto con il COGEAPS e AGENAS, in relazione all'accreditamento ECM.

Acconsento inoltre a ricevere l'invito dei corsi di Nadirex International s.r.l. SI NO

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N.B. I DATI PERSONALI DEVONO ESSERE RIPORTATI IN MANIERA CHIARA, LEGGIBILE E COMPLETA, IN QUANTO SARANNO TRASMESSI PER L'ATTRIBUZIONE DEI CREDITI.

Per ulteriori informazioni rivolgersi a: Nadirex International s.r.l.

Tel. +39 0382/525714 - Fax +39 0382/525736 - e-mail: info@nadirex.com - www.nadirex.com

QUOTE DI ISCRIZIONE AL CONGRESSO

	Entro il 31/05/2022	Dal 31/05/2022
RES - Non soci SIV-ISV	€ 200.00 (€ 164.00+36.00 IVA 22%)	€ 250.00 (€ 205.00+45.00 IVA 22%)
RES - Soci SIV-ISV	€ 150.00 (€ 123.00+27.00 IVA 22%)	€ 200.00 (€ 164.00+36.00 IVA 22%)
FAD	€ 120.00 (€ 98.00+22.00 IVA 22%)	
Specializzandi/Borsisti/Dottorandi	free	

DATI PER LA FATTURAZIONE

(OBBLIGATORI):

Nome/Ragione Sociale

Indirizzo

CAP

Città Prov.

P. IVA

C. F.

Cod. Univoco

MODALITÀ DI PAGAMENTO

☐ Vi invio copia del bonifico bancario di € intestato a Nadirex International S.r.l. sul c/c di Intesa Sanpaolo Filiale di Pavia Viale Cesare Battisti 18
BIC: BCITITMM
IBAN: IT66L0306911310100000069654
Si prega di indicare come causale di versamento "SIV-ISV - Luglio 2022"

☐ Vi prego di voler addebitare l'importo di € sulla mia carta di credito: ☐ Visa ☐ MasterCard ☐ American Express
Numero
Codice CV2
Data di scadenza
Titolare della Carta (in stampatello)

☐ Richiesta di Esenzione IVA
(Art. 10 comma 20 D.P.R. 637/72)

Timbro

Informativa ex art. 13 D.lgs. 196/2003 (Codice in materia di protezione dei dati personali) - Ai sensi del Decreto legislativo 196/03 La informiamo che i dati personali sopra richiesti verranno trattati per l'adempimento degli atti relativi alla gestione dei meeting/corsi a cui partecipa e verranno archiviati, custoditi ed eventualmente comunicati a terzi esclusivamente per lo scopo sopra indicato. Ai sensi dell'art. 7 del D.lgs. 196/2003 potrà esercitare i Suoi diritti, in ogni momento, contattando il titolare del trattamento NADIREX INTERNATIONAL SRL, Via Riviera n. 39 - Pavia, chiedendo la rettifica o la cancellazione dei dati stessi. Letta l'informativa acconsento al trattamento dei miei dati personali come sopra indicato.

Data

Firma

With the unrestricted educational grant of:



Ortho Clinical Diagnostics

