SIV ISV

SOCIETA' ITALIANA DI VIROLOGIA

ITALIAN SOCIETY FOR VIROLOGY

Padua
September
10-12, 2019
Università degli Studi di Padova

Chairs:
G. Palù,
M.C. Parolin

3rd national congress of the Italian Society for Virology

One Virology One Health

SCIENTIFIC PROGRAMME

ENDORSEMENTS

Ministero della Salute

AIFA, Agenzia Italiana del Farmaco

CNR, Consiglio Nazionale delle Ricerche

Regione Veneto

Comune di Padova

Università degli Studi di Padova

Azienda Ospedaliera di Padova

RATIONALE

The **National Congress of the Italian Society for Virology** represents the annual forum for the Italian scientists working in the different areas of Virology (medical-clinical Virology, molecular Virology, veterinary Virology, environmental and plant Virology) involving basic, clinical and translational research and taking advantage of the most advanced technological platforms.

In keeping with the tradition, the scientific structure of Congress features different thematic sessions: antiviral therapy, emerging viruses and zoonosis, environmental and plant virology, human viral diseases, infection & immunity and vaccinology, veterinary virology, viral diagnosis, viral genetics and biotechnology, viral oncology, virus-host interactions. Every session starts with a Keynote Lecture followed by oral communications selected from the “Call for Abstracts”.

Poster Exhibition and Discussions complete the scientific structure of the Congress.

The 3rd 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, Veterinary, Pharmacist, Physicist and Chemist.

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One Virology One Health

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Massimo Turina, Turin
Marietjie Venter, Pretoria
Aldo Venuti, Rome
Maurizio Zazzi, Siena

TUESDAY, SEPTEMBER 10

11.00-11.15 Registration of participants
11.15-11.30 Welcome addresses from the SIV-ISV President

11.30-13.00 Session 1 **VIRUS-HOST INTERACTIONS**
Chairs: Giorgio Gribaudo (Turin), Antonio Mastino (Messina)

11.30-11.50 Interplay between RNA viruses and non-coding RNA ***Troels Scheel**, Copenhagen*

12.00-13.00 Oral communications

OC 01 **B-cell clonogenic activity of HIV-1 p17 variants is driven by EGF transactivation and MMP activity**
***C. Giagulli**, F. Caccuri, A. Zani, F. Filippini, A. Bugatti, A. Caruso*
Section of Microbiology, Department of Molecular and Translational Medicine, University of Brescia, Brescia, Italy

OC 02 **TRIM22 binds to CIITA and sequesters it into nuclear bodies containing TRIM19/PML and Cyclin T1**
***G. Forlani**[1], F. Turrini[2], G. Poli[3,4], E. Vicenzi[2], R.S. Accolla[1]*
[1]General Pathology and Immunology Labs "Giovanna Tosi", Department of Medicine and Surgery, School of Medicine, University of Insubria, Varese, Italy, [2]Viral Pathogens and Biosafety Unit, San Raffaele Scientific Institute, Milano, Italy, [3]AIDS Immunopathogenesis Unit, San Raffaele Scientific Institute, Milano, Italy, [4]Vita-Salute San Raffaele University, School of Medicine, Milano, Italy

OC 03 **Structural and dynamic determinants of HCV/E2 sensitivity to neutralization**
***M. Castelli**[1], E. Augestad[2], N. Clementi[1], E. Criscuolo[1], R. Burioni[1], J. Prentoe[2], M. Clementi[1], N. Mancini[1]*
[1]Laboratory of Microbiology and Virology, Università "Vita-Salute" San Raffaele, Milan, Italy, [2]Copenhagen Hepatitis C Program (CO-HEP), University of Copenhagen, Denmark

OC 04 **HHV-6A infection of endometrial epithelial cells affects miRNA expression and trophoblast cell attachment**
***I. Soffritti**, M. D'Accolti, D. Bortolotti, V. Gentili, D. Di Luca, R. Rizzo, E. Caselli*
Section of Microbiology and Medical Genetics, Department of Medical Sciences, University of Ferrara, Ferrara, Italy

OC 05 **Towards the production of an infectious viral clone to interfere with phytoplasma transmission by the leafhopper Euscelidius variegatus**
***S. Ottati**[1], A. Persico[1,2], S. Abbà[1], M. Rossi[1], L. Galetto[1], M. Vallino[1], M. Turina[1], C. Marzachì[1]*
[1]CNR Istituto per la Protezione Sostenibile delle Piante, Torino, Italy, [2]Università degli Studi di Torino, Grugliasco (TO), Italy

OC 06 **Analysis of the mRNA expression of DNA damage response genes in HIV infected patients**
***D. Di Carlo**[1], F. Falasca[1], E. Panzini[2], I. Sciandra[1], L. Mazzuti[1], G. Antonelli[1], O. Turriziani[1]*
[1]Department of Molecular Medicine "Sapienza" University of Rome, [2]University Hospital Policlinico Umberto I Rome

13.00-13.50 Lunch

13.50-15.20 Session 2 **VIRAL DIAGNOSIS**
Chairs: Saverio Parisi (Padua), Massimo Turina (Turin)

13.50-14.10 New tools and new challeges for virological diagnosis ***Mauro Pistello**, Pisa*

14.20-15.20 Oral communications

OC 07 **3-D spheroid model to improve Human herpesvirus in vitro infection models**
***D. Bortolotti**, V. Gentili, A. Rotola, D. Di Luca, R. Rizzo*
Department of Medical Sciences, Section of Microbiology and Medical Genetics, University of Ferrara – Italy

OC 08 **Detection of drug resistant HCV mutants observed by NGS analysis**
***N. Clementi**[1], V. Caputo[1], R.A. Diotti[1], E. Boeri[2], M. Sampaolo[1], V. Amato[1], R. Burioni[1], N. Mancini[1,2], M. Clementi[1,2]*
[1]Laboratory of Microbiology and Virology, Vita-Salute San Raffaele University, Milan, Italy, [2]Laboratory of Microbiology and Virology, San Raffaele Hospital, Milan, Italy.

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OC 09 **Soluble HLA-G pre-transplant levels to identify the risk for development of CMV infection in heart transplant recipients**

***V. Gentili*[1], *D. Bortolotti*[1], *A. Rotola*[1], *L. Potena*[2], *D. Di Luca*[1], *R. Rizzo*[1]**

[1]Section of Microbiology and Medical Genetics, Department of Medical Sciences, University of Ferrara, Ferrara, Italy, [2]Cardiovascular Department, University of Bologna, Bologna, Italy

OC 10 **Differences in circulating cell-free HPV16 DNA levels during chemio-radiotherapy for oropharyngeal cancer**

***F. Mastrogiovanni*[1,2], *F. Paolini*[1,2], *A. Farneti*[3], *L. Marucci*[3], *R. Pellini*[4], *M. Benevolo*[5], *S. Falcucci*[1,2], *C. D'Ambrosio*[6], *A. Vidiri*[7], *R. Covello*[5], *G. Sanguineti*[3], *A. Venuti*[1,2]**

[1]HPV-UNIT, [2]Tumor Immunology and immunotherapy UOSD, [3]Radiotherapy, [4]ENT surgery, [5]Pathology, [6]Oncology, [7]Radiology, IRCCS Regina Elena National Cancer Institute, Rome, Italy

OC 11 **Quantitative Detection of BKV using the Real Time PCR STAT-NAT BKV assay**

L. Spinelli, M. Ballarini, L. Bavagnoli, A. Di Cosimo, G. Ferri, M.L. Incandela, D. Rigamonti, M. Gramegna

Sentinel CH. SpA, Milano, Italy

OC 12 **HCV Genotype Distribution and Association to Gender is Comparable in Patients Tested After Widening of Antiviral Treatment Criteria: Burden of HCV Infection Is Greater than Expected?**

***M. Basso*[1], *D. Zago*[1], *I. Pozzetto*[2], *M. Pacenti*[3], *G. Brancaccio*[1], *S. Ragolia*[1], *G. Palù*[1], *S.G. Parisi*[1]**

[1]Department of Molecular Medicine, University of Padova, Italy, [2]Department of Public Health and Infectious Diseases, Sapienza University of Rome, Italy, [3]Microbiology and Virology Unit, Padova University Hospital, Italy

15.20-16.50 Session 3 **HUMAN VIRAL DISEASES**

Chairs: Davide Gibellini (Verona), Enzo Tramontano (Cagliari)

15.20-15.40 Torquetenovirus: the human virome from bench to bedside ***Fabrizio Maggi**, Pisa*

15.50-16.50 Oral communications

OC 13 **Non-primary HCMV infection: natural history and immune response**

***D. Cirasola*[1], *L. Fiorina*[1], *C. Achille*[2], *A. Arossa*[3], *A. Spinillo*[3], *M.G. Revello*[1], *D. Lilleri*[1]**

[1]U.O.C. Laboratorio Genetica-Trapiantologia e Malattie Cardiovascolari, IRCCS Policlinico S. Matteo, Pavia, [2]Neonatologia e Terapia Intensiva Neonatale, IRCCS Policlinico S. Matteo, Pavia, [3]Ostetricia e Ginecologia, IRCCS Policlinico S. Matteo, Pavia

OC 14 **Tracing the first HIV-1 epidemics in the Milan area**

***A. Lai*[1], *A. Bergna*[1], *G. Zehender*[1], *A. Giacomelli*[1], *M. Ciccozzi*[2], *C. Balotta*[1], *M. Galli*[1]**

[1]Department of Biomedical and Clinical Sciences "Luigi Sacco", University of Milan, Milan, Italy, [2]Unit of Clinical Pathology and Microbiology, University Campus Bio-Medico of Rome, Rome, Italy

OC 15 **Hepatitis B "e" Antigen levels vary according to different phases of HBV infection, can contribute to estimate HBV replicative potential and to predict therapeutic outcome in HBeAg-positive patients**

***L. Piermatteo*[1], *R. Salpini*[1], *M. Alkhatib*[1], *M. Aragri*[1], *A. Bertoli*[1], *A. Iuvara*[2], *M. De Cristofaro*[3], *G. Cappiello*[3], *C. Cerva*[4], *C. Minichini*[5], *M. Pisaturo*[5], *M. Starace*[5], *N. Coppola*[5], *A. Spanò*[3], *L. Sarmati*[4], *M. Andreoni*[4], *M. Angelico*[6], *S. Grelli*[1,2], *F. Ceccherini Silberstein*[1], *C.F. Perno*[7], *V. Svicher*[1]**

[1]University of Rome "Tor Vergata", Department of Experimental Medicine, Rome, Italy, [2]University Hospital of Rome "Tor Vergata", Microbiology and Virology Unit, Rome, Italy, [3]"Sandro Pertini" Hospital, Microbiology Unit, Rome, Italy, [4]University Hospital of Rome "Tor Vergata", Infectious Disease Unit, Rome, Italy, [5]University of Campania "Luigi Vanvitelli", Department of Medical, Surgical, Neurological, Metabolic and Aging Sciences, Naples, Italy, [6]University Hospital of Rome "Tor Vergata", Hepatology Unit, Rome, Italy, [7]University of Milan, Department of Oncology and Haemato-oncology, Milan, Italy

OC 16 **Viral infections contribute to IL-8 overexpression in children with Biliary Atresia**

***F. Parolini*[1], *M. Traversi*[2], *S. Roversi*[2], *R. Pezzotta*[2], *A. Zani*[2], *F. Filippini*[2], *D. Alberti*[1], *A. Caruso*[2], *S. Fiorentini*[2]**

[1]Department of Pediatric Surgery, Civic Hospital Brescia, University of Brescia, Brescia, Italy, [2]Section of Microbiology, Department of Molecular and Translational Medicine, University of Brescia Medical School, Brescia, Italy

OC 17 **HCMV non-primary infection during pregnancy**

***D. Lilleri*[1], *P. Zelini*[1], *L. Fiorina*[1,5], *M. De Cicco*[1], *D. Cirasola*[1], *C. Achille*[2], *V. Marazzi*[3], *A. Sarasini*[4], *G. Muscettola*[3], *A. Spinillo*[3]**

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OC 18 **Lineage 1 and 2 West Nile Virus infection equally affect the IFN response and dendritic cells maturation**
F. Frasca[1], M. Statzu[1], A. Pierangeli[1], L. Santinelli[1], M. Scordio[1], C. Nonne[1], A. Sgrigna[1], B. Caputo[3], L. Vitiello[4], M. Gentile[1], E. Riva[5], G. Antonelli[1,2], C. Scagnolari[1]
[1]Laboratory of Virology, Department of Molecular Medicine, affiliated to Istituto Pasteur Italia – Cenci Bolognetti Foundation, Sapienza University of Rome, Rome, Italy, [2]Microbiology and Virology Unit, Sapienza University Hospital, Rome, Italy, [3]Parasitology Unit, Department of Public Health and Infectious Diseases, 'Sapienza' University of Rome, Italy, [4]Laboratory of Pathophysiology of Cachexia and Metabolism of Skeletal Muscle, IRCCS San Raffaele Pisana, Rome, Italy, [5]Unit of Virology, Campus Bio-Medico University Hospital, Rome, Italy

16.50-17.30 **Transfer to Palazzo Bo'**

Chair: Maria Cristina Parolin (Padua)

17.30-18.00 Welcome addresses from the Rector of the University of Padova
***Rosario Rizzuto**, Padua*

18.00 The Future of Virology ***Giorgio Palù**, Padua*

Welcome reception

WEDNESDAY, SEPTEMBER 11

09.00-10.30 Session 4 **ENVIRONMENTAL AND PLANT VIROLOGY**

Chairs: Beatriz Navarro (Bari), Luisa Rubino (Bari)

09.00-09.20 Diversity of DNA and RNA viruses in extreme polar environments ***Antonio Alcamí**, Madrid*

09.30-10.30 Oral communications

OC 19 **CryoEM atomic structure of potato virus X**
A. Grinzato[1], E. Kandiah[2], C. Lico[3], C. Betti[3], S. Baschieri[3], G. Zanotti[1]
[1]Department of Biomedical Science, University of Padova, Padova, Italy, [2]Structural Biology Group, European Synchrotron Radiation Facility, Grenoble, France, [3]Laboratory of Biotechnology, ENEA C.R. Casaccia, Roma, Italy

OC 20 **Beneficial viruses to protect plants from biotic and abiotic stress: a holistic approach**
M. Turina, M. Chiapello, C. Marzachì, S. Abbà, L. Galetto, S. Ottati, M. Vallino, G. Martino, M. Forgia, M. Ciuffo
Institute for Sustainable Plant Protection, CNR, Torino, Italy

OC 21 **NGS approaches to characterize mycovirus-induced Ochratoxin A regulation in Aspergillus ochraceus**
M. Forgia[2,3], L. Nerva[1,2], M. Chiapello[2], G.C. Varese[3], M. Turina[2]
[1]Council for Agricultural Research and Economics - Research Centre for Viticulture and Enology CREA-VE, Coneglinao (TV), [2]Institute for Sustainable Plant Protection, CNR, Torino, Italy, [3]Mycotheca Universitatis Taurinensis (MUT), Department of Life Sciences and Systems Biology, University of Turin, Torino, Italy

OC 22 **Phage therapy to control bacterial diseases of plants**
G. Martino, M. Vallino, M. Turina, M. Ciuffo
Istituto per la Protezione Sostenibile delle Piante, CNR, Torino

OC 23 **Presence of Norovirus and Hepatitis A in Berries**
R. Čobanović[1], K. Mihajlović[1], B. Kokić[2]
[1]Microbiological department, SP Laboratory, Bečej, Serbia, [2]Research center for feed technology and animal products, University of Novi Sad Institute of food technology in Novi Sad, Serbia

OC 24 **Occurrence of Human Salivirus in untreated wastewaters in Italy**
P. Mancini[1], G. Bonanno Ferraro[1], M. Iaconelli[1], E. Suffredini[2], C. Veneri[1], G. La Rosa[1]
[1]Department of Environment and Health - Istituto Superiore di Sanità, Rome, Italy, [2]Department of Food Safety, Nutrition and Veterinary Public Health, Istituto Superiore di Sanità, Rome, Italy

10.30-10.45 Coffee break

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10.45-13.00 Session 5 **ANTIVIRAL THERAPY**

Chairs: Saverio Parisi (Padua), Maurizio Zazzi (Siena)

10.45-11.05 New molecular based antiviral therapy ***Stuart Le Grice**, Frederick*

11.10-11.30 2DR: from opportunity to change of paradigm ***Andrea Antinori**, Rome*

11.35-11.55 Does one size fit all? ***Antonella Castagna**, Milan*

12.00-13.00 Oral communications

OC 25 **Maraviroc as a Latency Reversing Agent in cell line models**

***I. Vicenti*[1], *F. Dragoni*[1], *M. Monti*[2,4], *A. Giannini*[1], *A. Ciabattini*[1], *B. Rossetti*[3], *A. De Luca*[1,3], *D. Medaglini*[1], *E. Montomoli*[2,4], *M. Zazzi*[1]**

[1]Department of Medical Biotechnologies, University of Siena, Siena, Italy, [2]Department of Molecular and Developmental Medicine, University of Siena, Siena, Italy, [3]Infectious Diseases Unit, Azienda Ospedaliera Universitaria Senese, Siena, Italy, [4]VisMederi srl, Siena, Italy

OC 26 **Inhibition of HCMV replication by small molecules interfering with the dimerization of DNA polymerase processivity factor UL44**

***H. Ghassabian*[1], *M. Timmoneri*[1], *V. Di Antonio*[1], *F. Falchi*[2], *B. Mercorelli*[1], *A. Loregian*[1], *G. Palù*[1], *G. Alvisi*[1]**

[1]Department of Molecular Medicine, University of Padua, Italy, [2]Italian Institute of Technology, Genova, Italy

OC 27 **Evaluation of broad-spectrum antivirals targeting viral envelopes of Dengue and Zika viruses**

***A. Boccuto*[1], *A. Brai*[2], *F. Saladini*[1], *N. Palombi*[2], *I. Vicenti*[1], *C. Ardino*[2], *M. Zazzi*[1], *M. Botta*[2]**

[1]Department of Medical Biotechnologies, University of Siena, Italy, [2]Department of Biotechnologies, Chemistry and Pharmacy, University of Siena, Italy

OC 28 **Impact of DAA mediated HCV eradication on sCD163 and sCD14 systems in LOW and HIGH fibrosis HCV monoinfected patients**

***P. Nijhawan**, C. Mascia, S. Vita, I. Pozzetto, B. Kertusha, L. Fondaco, F. Mengoni, R. Marocco, C. Mastroianni, M. Lichtner*

S.M. Goretti Hospital, Latina, Policlinico Umberto I, Sapienza University of Rome

OC 29 **The war against paramyxoviruses: new and potent hemagglutinin- neuraminidase inhibitors of Newcastle Disease Virus**

***P. Rota*[1,2], *P. La Rocca*[3], *F. Bonfante*[4], *M. Montefiori*[5], *M. Pagliari*[4], *P. Allevi*[1], *L. Anastasia*[2,3]**

[1]Department of Biomedical, Surgical and Dental Sciences, University of Milan, Milan (Italy); [2]Laboratory of Stem Cells for Tissue Engineering, IRCCS Policlinico San Donato, San Donato Milanese, Milan (Italy); [3]Department of Biomedical Sciences for Health, University of Milan, Segrate, Milan (Italy); [4]Division of Comparative Biomedical Sciences, Istituto Zooprofilattico Sperimentale delle Venezie, Legnaro, Italy; [5]Department of Drug Design and Pharmacology, University of Copenhagen, Copenhagen (Denmark)

OC 30 **Combining innate immune and epigenetic modulators to reactivate latent HIV-1 reservoirs**

***E. Palermo*[1], *C. Acchioni*[2], *D. Di Carlo*[3], *A. Zevini*[1], *M. Muscolini*[1], *M. Ferrari*[1], *L. Castiello*[1], *S. Virtuoso*[4], *A. Borsetti*[4], *G. Antonelli*[3], *O. Turriziani*[3], *M. Sgarbanti*[2], *J. Hiscott*[1]**

[1]Pasteur Institute - Italy, Istituto Pasteur - Fondazione Cenci Bolognetti, Rome, Italy, [2]Department of Infectious, Parasitic and Immune-Mediated Diseases, Istituto Superiore di Sanità, Rome , Italy, [3]Department of Molecular Medicine, "Sapienza" University of Rome, Rome, Italy, [4]National HIV/AIDS Research Center, Istituto Superiore di Sanità, Rome, Italy

13.00-14.00 LUNCH AND POSTER VIEWING

14.00-15.00 ROUND TABLE **"ANIMAL TESTING IN TODAY'S VIROLOGICAL RESEARCH"**

Chair: Edward Mocarski (Atlanta)

Small animals in virological research ***Paolo Bonaldo**, Padua*

Animal testing for the study of virus-host relationships ***Guido Silvestri**, Atlanta*

Animal testing in the study of veterinary virology ***Maria Serena Beato**, Legnano PD*

15.00-16.30 Session 6 **VETERINARY VIROLOGY**

Chairs: Maria Serena Beato (Legnaro PD), Canio Buonavoglia (Bari)

15.00-15.20 Emerging Lyssaviruses in the EU and public health associated risks
***Paola De Benedictis**, Legnaro PD*

15.30-16.30 Oral communications

OC 31 **Canine Distemper Outbreaks in Alpine Wildlife**
***T. Trogu**, S. Canziani, A. Bianchi, I. Bertoletti, L. Alborali, C. Salogni, F. Paterlini, A. Gaffuri, E. Sozzi, D. Lelli, A. Lavazza, A. Moreno*
Istituto Zooprofilattico Sperimentale della Lombardia e dell'Emilia Romagna "Bruno Ubertini", Brescia (Italy)

OC 32 **Skin lesions in wildlife ruminants from Stelvio national park: co-infections with epitheliotropic viruses**
***L. Gallina*[1], F. Savini[1], G. Casà[1], I. Bertoletti[2], A. Bianchi[2], A. Lavazza[2], A. Scagliarini[1]**
[1]Department of Veterinary Medical Sciences, Alma Mater Studiorum, Università di Bologna, [2]Istituto Zooprofilattico Sperimentale della Lombardia e dell'Emilia-Romagna, Brescia

OC 33 **GII norovirus in swine faecal samples in Northern Italy: identification of two different genotypes**
***L. Cavicchio*[1], G. Rizzo[1], G. Cunial[1], L. Tassoni[1], A. Milani[1], A. Laconi[1], M. Campalto[1], M. Pagliari[1], M. Ustulin[1], I. Monne[1], M. Forzan[2], M. Mazzei[2], D. Vio[1], L. Bonfanti[1], M.S. Beato[1]**
[1]Istituto Zooprofilattico Sperimentale delle Venezie, (IZSVe), Legnaro (Padova), Italy, [2]Università di Pisa, Veterinary Sciences Department, Pisa, Italy

OC 34 **Surveillance among orthomyxoviruses (IAV, IBV, ICV, IDV) in Italy (2014-2018)**
***A. Prosperi*[1], S. Faccini[1], M. Merenda[1], A. Amorico[1], A. Moreno[1], C. Rosignoli[1], E. Pariani[2], C. Galli[2], P. Affanni[3], M.E. Colucci[3], E. Foni[1], A. Luppi[1], C. Chiapponi[1]**
[1]Istituto Zooprofilattico Sperimentale della Lombardia e dell'Emilia Romagna, Italy, [2]Dipartimento di Scienze Biomediche per la Salute, Università di Milano, Milan, Italy, [3]Dipartimento di Medicina e Chirurgia, Università di Parma, Parma, Italy

OC 35 **Whole genome phylodynamics of Dolphin morbillivirus from the Mediterranean Sea**
***F. Cerutti*[1], F. Giorda[1], A. Pautasso[1], C. Grattarola[1], W. Mignone[1], N. Keck[2], A. Lorusso[3], G. Di Francesco[3], G. Di Guardo[4], M. Goria[1], L. Masoero[1], P. L. Acutis[1], C. Casalone[1], S. Peletto[1]**
[1]Istituto Zooprofilattico Sperimentale del Piemonte, Liguria e Valle d'Aosta, Torino, Italy, [2]Laboratoire départemental vétérinaire de Herault, Montpelliere, France, [3]Istituto Zooprofilattico Sperimentale dell'Abruzzo e del Molise "G. Caporale", Teramo, Italy, [4]Università degli Studi di Teramo, Teramo, Italy

OC 36 **A/H1N1pdm(09) in a turkey breeder flock: occurrence of reverse zoonosis**
***F. Gobbo*[1], A. Bortolami[1], B. Zecchin[1], A. Fusaro[2], A. Pastori[2], G. Zamperin[2], I. Monne[2], C. Terregino[1,2]**
[1]Istituto Zooprofilattico Sperimentale delle Venezie, SCS6 Laboratorio di Virologia Speciale e Sperimentazione, [2]Istituto Zooprofilattico Sperimentale delle Venezie, SCS5 Ricerca e Innovazione

16.30-18.00 Session 7 **EMERGING VIRUSES AND ZOONOSES**

Chairs: Maria Carla Re (Bologna), Alessandra Scagliarini (Bologna)

16.30-16.50 Emerging vector-borne viruses in humans and animals: the Africa - Europe connection ***Marietjie Venter**, Pretoria*

17.00-18.00 Oral communications

OC 37 **The prevalence of HEV in wild boar in Campania**
***C. Esposito**, M.G. Amoroso, F. Alfano, B. Cioffi, M. Viscardi, M. Levante, A.S. Giacca, N. D'Alessio, G. Galiero, G. Fusco*
Istituto Zooprofilattico Sperimentale del Mezzogiorno - Dipartimento di Sanità Animale

OC 38 **Distribution and characterization of zoonotic Hepatitis E virus in wild ungulates hunted in North-Eastern Italy**
***F. Obber*[1], B. Zecchin[1], A. Schivo[1], L. Bellinati[1], A. Milani[1], A. Fusaro[1], L. Ceglie[1], A. Natale[1], L. Bonfanti[1], L. Amato[1], G. Cunial[1], M. Bregoli[1], C. Salata[2], S. Ragolia[2], G. Palù[2], M.T. Giordani[3], M. Barbujani[1], V. Giovannini[1], M. L. Menandro[4], M. Martini[4], P. Mulatti[1], I. Monne[1], C.V. Citterio[1]**
[1]Istituto Zooprofilattico Sperimentale delle Venezie (IZSVe) – Legnaro (Italy), [2]Department of Molecular Medicine, University of Padova – Padova (Italy), [3]Department of Infectious and Tropical Diseases, St. Bortolo Hospital, Vicenza (Italy), [4]Department of Animal Medicine, Production and Health, University of Padova – Padova (Italy)

SCIENTIFIC PROGRAMME

SIV ISV SOCIETA' ITALIANA DI VIROLOGIA
ITALIAN SOCIETY FOR VIROLOGY

OC 39 **Mammalian Orthoreovirus (MRV) at the interface between bat, pigs and humans**
***S. Leopardi*[1], *P. Priori*[2], *L. Cavicchio*[3], *G. Zamperin*[1], *M.S. Beato*[3], *P. De Benedictis*[1]**
[1]Istituto Zooprofilattico Sperimentale delle Venezie SCS5 Ricerca e innovazione, [2]S.T.E.R.N.A., [3]Istituto Zooprofilattico Sperimentale delle Venezie, SCT3, Laboratorio di virologia diagnostica

OC 40 **A conserved serine on Ebolavirus VP35 is required for replication activity but not antagonist function**
***M.J. Morwitzer*[1], *A. Corona*[2], *L. Zinzula*[3], *E. Fanunza*[2], *C. Vornholt*[1], *C.F. Basler*[4], *E. Tramontano*[2,5], *S.P. Reid*[1]**
[1]Department of Pathology and Microbiology, Nebraska Medical Center, Omaha, USA, [2]Department of Life and Environmental Sciences University of Cagliari, Monserrato, Italy, [3]Department of Molecular Structural Biology, The Max-Planck Institute of Biochemistry, Martinsried, Germany, [4]Center for Microbial Pathogenesis, Institute for Biomedical Sciences, Georgia State University, Atlanta, USA, [5]Istituto di Ricerca Genetica e Biomedica, Consiglio Nazionale delle Ricerche, Monserrato, Italy

OC 41 **Elevated plasma level of IP-10 /CXCL10 is correlated with severity of human West Nile virus (WNV) infection**
***G. Rossini*[1], *S. Varani*[2], *S. Morini*[1], *S. Silenzi*[2], *MC Re*[1,2]**
[1]Unit of Clinical Microbiology, Regional Reference Centre for Microbiological Emergencies (CRREM), St. Orsola-Malpighi University Hospital, Bologna, Italy, [2]Department of Experimental, Diagnostic and Specialty Medicine, University of Bologna, Italy

OC 42 **The persistent infection of tick cells by Hazara orthonairovirus is mediated by virus-derived DNA forms**
***M.V. Salvati*[1], *C. Del Vecchio*[1], *L. Bell-Sakyi*[2], *C. Parolin*[1], *A. Calistri*[1], *G. Palù*[1], *A. Mirazimi*[3,5], *C. Salata*[1]**
[1]Department of Molecular Medicine, University of Padova, Italy, [2]The Tick Cell Biobank, Institute of Infection and Global Health, University of Liverpool, UK, [3]Department of Microbiology, Public Health Agency of Sweden, Solna, Sweden, [4]Department for Laboratory Medicine, Karolinska Institute, Huddinge/Stockholm, Sweden, [5]National Veterinary Institute, Uppsala, Sweden

18.00-18.45 **Oral Presentation of Selected Posters and Best Poster Awards**
Chairs: Giorgio Palù (Padua), Maria Cristina Parolin (Padua)

18.45 SIV-ISV General Member Meeting

THURSDAY, SEPTEMBER 12

09.00-10.50 Session 8 **INFECTION & IMMUNITY AND VACCINOLOGY**
Chairs: Arnaldo Caruso (Brescia), Rossana Cavallo (Turin)

09.00-09.20 Type I Interferon in viral infections: a reconsideration of its role 60 years after the discovery ***Guido Antonelli**, Rome*

09.25-09.45 Post-treatment vaccination for HPV-related diseases ***Franco Buonaguro**, Naples*

09.50-10.50 Oral communications

OC 43 **The efficacy of CMV specific immune reconstitution is highly dependent on donor/recipient serostatus and type of solid organ transplanted**
***D. Abate*[1], *A. Saldan*[1], *C. Mengoli*[1], *D. Sgarabotto*[3], *M. Alessi*[4], *A. Gambino*[7], *L. Bonfante*[4], *P. Burra*[6], *F. Marchini*[4], *B. Rossi*[4], *P. Boccagni*[6], *A. Pompea Frajese*[7], *G. Toscano*[7], *S. Fasolato*[4], *C. Silvestre*[6], *F.P. Russo*[6], *P. Angeli*[4], *L. Furian*[6], *M. Loy*[6], *G. Sturniolo*[6], *U. Cillo*[6], *G. Gerosa*[7], *P. Rigotti*[6], *F. Rea*[6], *G. Palù*[1]**
[1]Department of Molecular Medicine, [2]Department of Cardiac, [3]Transplant infectious diseases, [4]Nephrology unit 1, [5]Thoracic and Vascular Sciences Unit, [6]Department of surgical oncology and gastroenterology, [7]Cardiothoracic surgery General Hospital, Italy

OC 44 **Toscana virus NSs protein acts as E3 Ubiquitin ligase promoting RIG-I degradation**
G. Gori Savellini, G. Anichini, C. Gandolfo, S. Prathyumnan, M.G. Cusi
Department of Medical Biotechnologies, University of Siena, Siena, Italy

OC 45 **Neutralizing sera from HSV-1 or HSV-2 infected subjects poorly inhibit direct virus cell-to-cell spread**
E. Criscuolo[1], M. Castelli[1], R.A. Diotti[1], V. Amato[1], R. Burioni[1], M. Clementi[1,2], A. Ambrosi[3], N. Mancini[1,2], N. Clementi[1]
[1]Laboratory of Microbiology and Virology, "Vita-Salute" San Raffaele University, Milan, Italy,
[2]Laboratory of Microbiology and Virology, San Raffaele Hospital, Milan, Italy, [3]Faculty of Medicine and Surgery, "Vita-Salute" San Raffaele University, Milan, Italy

OC 46 **HIV-1 and HLA-C relationship: a matter of stability**
D. Zipeto[1], S. Mutascio[1], C. Stefani[1], M. Serena[1], F. Parolini[1], S. Fochi[1], M.G. Romanelli[1], D. Gibellini[2]
[1]Department of Neuroscience, Biomedicine and Movement Sciences, [2]Department of Diagnostics and Public Health, School of Medicine, University of Verona, Italy

OC 47 **Modulation of macrophage subsets by African Swine Fever virus strains of diverse virulence**
G. Franzoni[1], E. Razzuoli[2], S.P. Graham[3], T. Carta[1,4], G. Galleri[5], S. Zinellu[1], P. Angioi[1], P. Modesto[2], S. Dei Giudici[1], A. Oggiano[1]
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10.50-11.05 Coffee break

11.05-13.00 Session 9 **VIRAL GENETICS AND BIOTECHNOLOGY**
Chairs: Elisabetta Affabris (Rome), Antonina Dolei (Sassari)

11.05-11.25 Gene therapy of genetic disorders ***Alessandra Biffi**, Padua*

11.30-11.50 Neurodegeneration and human endogenous retroviruses ***Antonina Dolei**, Sassari*

11.55-13.00 Oral communications

OC 48 **Functional characterization of the recombinant HERV-K (HML-2) integrase expressed in E. coli and its interaction with HIV-1 sequences and inhibitors**
F. Esposito[1], N. Grandi[1], L. Wenxue[2], E. Fanunza[1], N. Avindra[2], E. Tramontano[1]
[1]Department of Life and Environmental Sciences, University of Cagliari; [2]National Institute of Neurological Disorders and Stroke, NIH Neurological Institute, Bethesda, MD

OC 49 **Molecular and antigenic properties of Theileria parva antigen 9 expressed in mammalian cells**
V. Franceschi[1], R.G. Bastos[2], F. Macchi[1], L. Russo[1], G. Tebaldi[1], T. Connelley[3], I. Morrison[3], D. P. Knowles[2], L.M. Fry[2], G. Donofrio[1]
[1]Department of Medical-Veterinary Science, University of Parma, Parma, Italy, [2]Department of Veterinary Microbiology and Pathology, Washington State University, Pullman, WA, United States, [3]Royal School of Veterinary Sciences, The Roslin Institute, University of Edinburgh, Edinburgh, United Kingdom

OC 50 **A new NGS approach for Small Ruminant Lentivirus full genome characterization**
B. Colitti[1], E. Coradduzza[2], G. Puggioni[2], M.T. Capucchio[1], R. Reina[3], L. Bertolotti[1], S. Rosati[1]
[1]University of Turin, Dept. Veterinary Science, Grugliasco, Torino, Italy, [2]Istituto Zooprofilattico Sperimentale della Sardegna, Sassari, Italy, [3]Institute of Agrobiotechnology (CSIC-UPNA-Government of Navarra), Navarra, Spain

OC 51 **Study of genetic evolution of RHDV2 from 2011 to today and detailed mapping of key antigenic determinants**
P. Cavadini, G. Campisi, A. Vismara, A. Lavazza, L. Capucci
Istituto Zooprofilattico Sperimentale della Lombardia e dell'Emilia Romagna

OC 52 **Comparative analysis of the complete genome sequences of Sardinian African swine fever virus isolates (1978-2014)**
C. Torresi[1], M. Fiori[2], L. Bertolotti[3], M. Floris[5], B. Colitti[3], M. Giammarioli[1], S. Dei Giudici[2], A. Oggiano[2], M. Malmberg[4], G.M. De Mia[1], S. Belák[4], F. Granberg[4]
[1]Istituto Zooprofilattico Sperimentale dell'Umbria e delle Marche, Perugia, Italy, [2]Istituto Zooprofilattico Sperimentale della Sardegna, Sassari, Italy, [3]Dipartimento di Scienze Veterinarie, Università degli Studi di Torino, Grugliasco, Torino, Italy, [4]Swedish University of Agricultural Sciences, Uppsala, Sweden, [5]Dipartimento di Scienze Veterinarie, Università degli Studi di Sassari, Sassari, Italy

SCIENTIFIC PROGRAMME

SIV ISV SOCIETA' ITALIANA DI VIROLOGIA ITALIAN SOCIETY FOR VIROLOGY

OC 53 **Genetic diversity of small ruminant lentivirus (SRLV) isolates in Italy**
M. Bazzucchi*, *I. Pierini*, *S. Pirani*, *P. Gobbi*, *C. Torresi*, *M. Giammarioli*, *F. Feliziani*, *G.M. De Mia
Istituto Zooprofilattico Sperimentale dell'Umbria e delle Marche "Togo Rosati", Perugia, Italy

13.00-14.00 LUNCH AND POSTER VIEWING

14.00-16.00 Session 10 **VIRAL ONCOLOGY AND PATHOGENESIS**
Chairs: Lawrence Banks (Trieste), Aldo Venuti (Rome)

14.00-14.20 HTLV-1: the neglected and yet most oncogenic human pathogen
***Roberto Accolla**, Varese*

14.25-14.45 Human Papilloma viruses: from infectious entry to malignancy
***Lawrence Banks**, Trieste*

14.50-15.10 Herpesvirus Subversion of Apoptosis and Necroptosis Host Defense Pathways
***Edward Mocarski,** Atlanta*

15.15-16.00 Oral communications

OC 54 **The dimeric form of high-risk HPV E6 oncoprotein sustains keratinocyte transformation through a p53-independent mechanism**
***L. Messa*[1], *M. Celegato*[1], *B. Mercorelli*[1], *C. Bertagnin*[1], *G. Alvisi*[1], *L. Banks*[2], *G. Palù*[1], *A. Loregian*[1]**
[1]Department of Molecular Medicine, University of Padova, Padova, Italy, [2]International Centre for Genetic Engineering and Biotechnology, Trieste, Italy

OC 55 **Cancer diagnosis in HIV infected patients: a 13 years observational study**
***M. Basso*[1], *E. Forlin*[1], *M.C. Rossi*[2], *S. Panese*[3], *D. Zago*[1], *I. Pozzetto*[4], *C. Stagni*[1], *B. Parisini*[1], *G. Palù*[1], *S.G. Parisi*[1]**
[1]Department of Molecular Medicine, University of Padova, Padova, Italy, [2]Infectious Disease Unit, treviso Hospita, Treviso, Italy, [3]Infectious Disease Unit, dell'Angelo Hospital, Venezia, Italy, [4]University La Sapienza, Roma

OC 56 **Modulation of type I interferon system by African Swine Fever virus**
***E. Razzuoli*[1], *G. Franzoni*[2], *I. Ferretti*[1], *S. Zinellu*[2], *G. Galleri*[3], *T. Carta*[4], *M. Amadori*[5], *S. Dei Giudici*[2], *P. Modesto*[1], *A. Oggiano*[2]**
[1]Istituto Zooprofilattico Sperimentale della Liguria, Piemonte e Valle d'Aosta, Sezione di Genova, [2]Istituto Zooprofilattico Sperimentale della Sardegna, Sassari, [3]Università degli Studi di Sassari, Dipartimento di Immunologia Clinica e Sperimentale, [4]Università degli Studi di Sassari, Dipartimento di Medicina Veterinaria, [5]Istituto Zooprofilattico Sperimentale della Lombardia e dell'Emilia Romagna, Brescia

OC 57 **The antiviral effect of retrocyclin 101 against Zika virus**
***W. Wang*[1,2], *W. Lu*[2], *A. Garzino Demo*[2,3]**
[1]Wuhan Institute of Virology, Wuhan, [2]Institute of Human Virology, University of Maryland School of Medicine, Baltimore, USA, [3]Department of Molecular Medicine, University of Padova, Italy

THE NOBEL LECTURE IN VIROLOGY

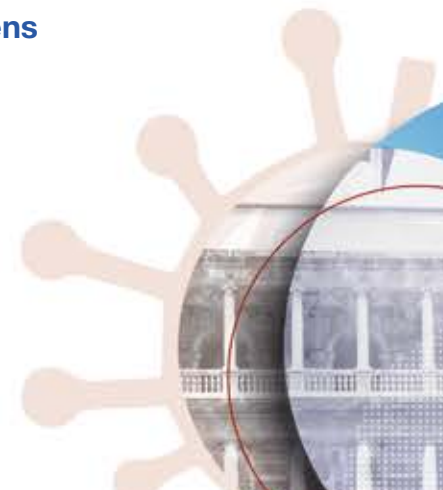
Chair: Giorgio Palù (Padua)

16.00 **Infectious plasmidosis: a novel class of human pathogens**
***Harald zur Hausen,** Nobel laureate in Medicine 2008*

Luria and *Viruses* Awards

Chairs: Arianna Calistri (Padua), Giorgio Palù (Padua)

Closing Remarks and ECM Questionnaires



ANTIVIRAL THERAPY

P 01 Potent and broad-spectrum cycloheptathiophene-3-carboxamide compounds that target the PA-PB1 interaction of influenza virus RNA polymerase and possess a high barrier to drug resistance

G. Nannetti[1], S. Massari[2], B. Mercorelli[1], C. Bertagnin[1], J. Desantis[2], O. Tabarrini[2], G. Palù[1], A. Loregian[1]
[1]Department of Molecular Medicine, University of Padua, Padua, Italy, [2]Department of Pharmaceutical Sciences, University of Perugia, Perugia, Italy

P 02 Development of new antiviral compounds to combat influenza viruses

C. Bertagnin[1], G. Nannetti[1], I. D'Agostino[2], S. Schenone[3], M. Botta[2], P. Zhan[4], G. Palù[1], A. Loregian[1]
[1]Department of Molecular Medicine, University of Padova, Padova, Italy, [2]Department of Biotechnology, Chemistry and Pharmacy, University of Siena, Siena, Italy, [3]Department of Pharmacy, University of Genova, Genova, Italy, [4]Department of Medicinal Chemistry, School of Pharmaceutical Sciences, Shandong University, Shandong, P.R. China

P 03 Evaluation of antiviral activity and resistance profile of sofosbuvir against West Nile Virus in vitro

F. Dragoni, A. Boccuto, A. Giannini, F. Saladini, M. Zazzi, I. Vicenti
Department of Medical Biotechnologies, University of Siena, Siena

P 04 A survey as a chance of education on U=U in PLWHIVA

G. Orofino[1], S. Patrucco[2], G.L. Cipero[2], A. Perziano[2], C. Owen[2], P. Altini[3], M. Gay[4], R. Angilletta[5]
[1]Infettivologo Malattie Infettive e Tropicali Ospedale Amedeo di Savoia di Torino, Associazione Arcobaleno AIDS Torino, [2]Associazione Arcobaleno AIDS Torino, [3]Coordinatore Corso di Laurea in Infermieristica Torino, Associazione Arcobaleno AIDS Torino, [4]CTSI Ospedale Sant'Antonio e Biagio di Alessandria, [5]Malattie Infettive, Clinica Universitaria di Torino

P 05 Generation of combinatorial lentiviral vectors expressing multiple anti hepatitis C virus shRNAs and their validation on a novel HCV replicon double reporter cell line

A. Vitiello, F. Ciccarese, V. Di Antonio, H. Ghassabian, E. Franchin, C. Parolin, G. Palù, C. Salata, A. Calistri, G. Alvisi
Department of Molecular Medicine, University of Padova

P 06 Impact of RAMs selected by older NNRTI on the susceptibility to doravirine in vitro

F. Saladini[1], F. Giammarino[1], A. Giannini[1], A. Boccuto[1], F. Dragoni[1], I. Vicenti[1], R. W. Shafer[2], M. Zazzi[1]
[1]Department of Medical Biotechnologies, University of Siena, Siena, Italy, [2]Stanford University, Stanford, CA, USA

P 07 Pilot study of HIV-1 blood persistence measured as the different viral DNA species in mono and dual therapy regimens

C. Orlandi[1], B. Canovari[2], Z. Pasquini[2,3], F. Barchiesi[2,3], A. De Maria[4], M. Magnani[1], A. Casabianca[1]
[1]Dipartimento di Scienze Biomolecolari, Sezione di Biotecnologie, Università di Urbino "Carlo Bo", [2]Malattie Infettive, Azienda Ospedaliera Ospedali Riuniti Marche Nord Pesaro, [3]Dipartimento di Scienze Biomediche e Sanità Pubblica, Università Politecnica delle Marche, Clinica Malattie Infettive Ospedali Riuniti di Ancona, [4]Center for Excellence in Biomedical Research, University of Genova

EMERGING VIRUSES AND ZOONOSES

P 08 Rescue of replication-competent ZIKV hidden in placenta-derived mesenchymal cells long after the resolution of the infection

V. Bordoni[1], E. Lalle[1], F. Colavita[1], A. Baiocchini[1], R. Nardacci[1], L. Falasca[1], F. Carletti[1], E. Cimini[1], L. Bordi[1], G. Kobinger[2], V. D'Ambrosio[3], F. Natale[3], A. Giancotti[3], L. Manganaro[3], F. Del Nonno[1], A. Zumla[4], G. Liuzzi[1], G. Ippolito[1], M.R. Capobianchi[1], C. Agrati[1], C. Castilletti[1]
[1]National Institute for Infectious Diseases "L. Spallanzani", IRCCS, Rome, Italy, [2]University of Manitoba, Winnipeg, Manitoba, Canada, [3]"Sapienza" University of Rome, Policlinico Umberto I Hospital, Rome, Italy, [4]University College London, London, UK

P 09 Porcine circovirus 3 (PCV-3) detection in wild ungulates and associated ticks in Friuli Venezia Giulia

L. Grassi, G. Franzo, C.M. Tucciarone, M. Legnardi, D. Pasotto, M. Cecchinato, M. Martini, M. Drigo, M.L. Menandro
Università degli Studi di Padova, Dipartimento di Medicina Animale, Produzioni e Salute (MAPS)

ENVIRONMENTAL AND PLANT VIROLOGY

P 10 Occurrence of enteric viruses and free-living amoebae in swimming pools and spa

L. Bonadonna, R. Briancesco, A.M. Coccia, G. Bonanno Ferraro, P. Mancini, C. Veneri, S. Della Libera, M. Iaconelli, R. Paradiso, G. La Rosa
Department of Environment and Health - Istituto Superiore di Sanità, Rome, Italy

POSTER

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P 11 Saffold Virus: first detection of a human Cardiovirus in raw sewage in Italy

G. Bonanno Ferraro[1], P. Mancini[1], E. Suffredini[2], M. Iaconelli[1], C. Veneri[1], G. La Rosa[1]
[1]Department of Environment and Health - Istituto Superiore di Sanità, Rome, Italy, [2]Department of Food Safety, Nutrition and Veterinary Public Health, Istituto Superiore di Sanità, Rome, Italy

P 12 Pepper mild mottle virus in water environments in Italy: a potential new water quality indicator?

M. Iaconelli[1], G. Bonanno Ferraro[1], P. Mancini[1], E. Suffredini[2], C. Veneri[1], L. Bonadonna[1], G. La Rosa[1]
[1]Department of Environment and Health - Istituto Superiore di Sanità, Rome, Italy, [2]Department of Food Safety, Nutrition and Veterinary Public Health, Istituto Superiore di Sanità, Rome, Italy

P 13 Replacement of Hepatitis A virus strains circulating in Campania Region (2015-2018) assessed through sentinel bivalves and environmental surveillance

E. Suffredini[1], P. Mancini[2], M. Iaconelli[2], G. Bonanno Ferraro[2], D. De Medici[1], T. Vincenza[1], Y.T.R. Proroga[3], C. Veneri[2], M. Della Rotonda[4], G. La Rosa[2]
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P 14 Environmental surveillance of Hepatitis E virus in Italy

M. Iaconelli[1], G. Bonanno Ferraro[1], P. Mancini[1], E. Suffredini[2], D. De Medici[2], S. Della Libera[1], F. Bignami[1], C. Veneri[1], A.R. Ciccaglione[3], R. Bruni[3], S. D'Amato[4], G. La Rosa[1]
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P 15 Carnation Italian ringspot virus p36 protein expression in Saccharomyces cerevisiae induces changes in mitochondrial function

L. Rubino[1], G. Petrosillo[2], A. Antonacci[1], D. Marzulli[2], G. Dipace[3], S. Giannattasio[2]
[1]CNR, Istituto per la Protezione Sostenibile delle Piante, UOS Bari, [2]CNR, Istituto di Biomembrane, Bioenergetica e Biotecnologie Molecolari, Bari, [3]Dipartimento diBioscienze, Biotecnologie e Biofarmaceutica, Università degli Studi di Bari "Aldo Moro"

P 16 Role of RNA silencing in triggering the initial molecular lesion of viroid pathogenesis

B. Navarro[1], S. Delgado[2], A. De Stradis[1], P. Serra[2], R. Flores[2], F. Di Serio[1]
[1]Istituto per la Protezione Sostenibile delle Piante (CNR), Bari, Italy, [2]Instituto de Biología Molecular y Celular de Plantas (CSIC-UPV), Valencia, Spain

P 17 A novel emaravirus from Jujube trees (Ziziphus jujuba Mill)

C. Yang[1], S. Zhang[2,3], T. Han[1], J. Fu[1], F. Di Serio[4], M. Cao[2,3]
[1]Liaoning Key Laboratory of Urban Integrated Pest Management and Ecological Security, College of Life Science and Engineering, Shenyang University, Dadong, Shenyang, Liaoning, China, [2]National Citrus Engineering and Technology Research Center, Citrus Research Institute, Southwest University, Beibei, Chongqing, China, [3]Academy of Agricultural Sciences Southwest University, Beibei, Chongqing, China, [4]Istituto per la Protezione Sostenibile delle Piante, Consiglio Nazionale delle Ricerche, Bari, Italy

P 18 Cannabis cryptic virus engineering: protocol development for dsRNA based viral vector

M. Dall'Ara[1], N. Miotti[2], D. Baldo[1], M. Calassanzio[1], R. Paris[3], P. Casati[2], C. Ratti[1]
[1]DISTAL - Plant Pathology - University of Bologna, Bologna, Italy, [2]Department of Agricultural and Food Sciences - Production, Landscape, Agroenergy - University of Milan, Milan, Italy, [3]Council for Agricultural Research and Economics - Research Centre for Cereal and Industrial Crops, Bologna, Italy

HUMAN VIRAL DISEASES

P 19 Unusual airborne GII.Pc_GII.3 Norovirus outbreak occurring in a theatre

T. Gallo[1,6], G. Degani[1], A. Pischiutti[1], S. Miceli[1], B. Cerno[1], S. Assunta[2], M. Screm[2], A. Arzese[2], A. Savoia[1], M. Di Fant[1], P. D'Agaro[3], I. Caracciolo[3], L. Segat[3], E. Ramon[4], D. Giugno[4], A. Lettini[4], E. Suffredini[5], E. Mazzolini[4,6]
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P 20 Retrospective analysis of Polyomavirus BK-associated nephropathy in kidney transplant patients from 2015 to May 2019

E. Zanotto[1], I. Abbasciano[2], A. Barreca[3], P. Bottino[1], F. Sidoti[1], C. Costa[1], R. Cavallo[1]
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P 21 Prolonged viral shedding in bronchial aspirate fluids in a patients with measles-related severe pneumonia

L. Bordi[1], M. Antonini[1], A. Bressan[2], C. Castilletti[1], E. Nicastri[1], G. Rozera[1], L. Scorzolini[1], A. D'Abramo[1], F. Colavita[1], A. Vulcano[1], A. Di Caro[1], M. Maritti[1], M.R. Capobianchi[1], E. Lalle[1]
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P 22 Italian network for norovirus and rotavirus surveillance in health care associated infections

I. Di Bartolo[1], G. Ianiro[1], M. Monini[1], E. Pagani[2], A.M. Di Pierro[2], G. Giammanco[3], S. De Grazia[3], G.M. Rossolini[4], S. Pollini[4], V. Rabensteiner[5], NosoVirNet group
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P 23 Prevalence of non B HIV-1 subtypes in North Italy and analysis of transmission clusters based on sequence data analysis

G. Lorenzin[1,2], F. Gargiulo[1], A. Caruso[1], F. Caccuri[1], E. Focà[3], A. Celotti[3], E. Quiros-Roldan[3], F. Castelli[3], M.A. De Francesco[1]
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P 24 Enterovirus surveillance in a Pediatric Hospital

L. Coltella[1], L. Piccioni[1], S. Ranno[1], G. Pizzichemi[1], C. Auriti[2], S. Chiavelli[1], C. Concato[1]
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INFECTION & IMMUNITY AND VACCINOLOGY

P 25 Evolution of Infectious Bronchitis Virus in the Field After Homologous Vaccination Introduction: the Italian lesson

G. Franzo, M. Legnardi, C.M. Tucciarone, M. Drigo, D. Pasotto, M. Martini, L. Grassi, M.L. Menandro, M. Cecchinato
Università degli Studi di Padova, Dipartimento di Medicina Animale, Produzioni e Salute (MAPS)

P 26 Advanced technologies for production of new preventive and/or therapeutic vaccines against HPV16

F. Paolini[1], S. Massa[2], C. Marino[3], R. Franconi[3], A. Venuti[1]
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P 27 New armed HSV-1 oncolytic viruses for the immunotherapy of solid tumors

A. Vitiello[1], A. Reale[1], V. Conciatori[1], C. Parolin[1], S. Piccolo[1], J. Von Einem[2], A. Calistri[1], G. Palù[1]
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P 28 NKp44 expression on pDC of HIC patients associates with conserved IFNa and controlled TNFa and IL-6 production and is correlated to NKp44 modulation on NK cells

F. Bozzano, F. Marras, I. Bonaccorsi, E. Pontali, L. Nicolini, A. Di Biagio, C. Dentone, G.C. Orofino, C. Cantoni, L. Moretta, G. Ferlazzo, A. De Maria
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P 29 Herpes Simplex Virus Type 1 induced PDL-1 expression in infected murine enteric neurons safeguards viral persistence

J. Conti[1], M. Scarpa[2], K. Andromachi[2], M. Scarpa[2], G. Palù[1], P. Brun[1], I. Castagliuolo[1]
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POSTER

VETERINARY VIROLOGY

P 30 Compartmentalized evolution of Bovine Viral Diarrhoea Virus type 2 in an immunotolerant persistently infected cow

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P 31 Molecular epidemiology, evolution and population dynamics of canine parvovirus (CPV) on a local and global scale

C.M. Tucciarone[1], G. Franzo[1], E. Mazzetto[1], M. Legnardi[1], M. Caldin[2], T. Furlanello[3], M. Martini[1], M. Cecchinato[1], M. Drigo[1]

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P 32 First detection of Hunnivirus in a dog (Canis Lupus Familiaris)

E. Muratore[1], F. Grosjacques[1], M. Messina[1], A. Di Blasio[1], S. Zoppi[1], L. Costanzi[2], B. Bassano[2], A. Dondo[1], M.G. Maniaci[1], S. Colussi[1], P.L. Acutis[1], L. Masoero[1], S. Peletto[1]

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P 33 Detection and genetic characterization of Sapelovirus A in Italian swine herds

E. Chelli[1], L. De Sabato[1], F. Ostanello[2], G. Vaccari[1], I. Di Bartolo[1]

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P 34 Circulation of Hepatitis E virus in wild boar population in Central Italy

L. De Sabato[1], F. Ostanello[2], L. De Grossi[3], A. Marcario[3], B. Franzetti[4], G. Ianiro[1], A. Barone[3], E. Martini[5], M. Monini[1], I. Di Bartolo[1]

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P 35 Enteric viruses in mussels from production areas in Greece

I. Chaligiannis[1], T. Vicenza[2], D. Karagiannis[3], G. La Rosa[4], T. Papadopoulos[5], C. Santana[2], M. Andreopoulou[6], E. Suffredini[2]

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P 36 Optimization of digital PCR for the quantification of HAV virus in food analysis

B. Bertasi[1], E. Suffredini[2], S. Lovari[3], B. Boniotti[1], S. Di Pasquale[2], R. Benevenia[1], F. Meletti[1], D. De Medici[2], M.N. Losio[1]

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P 37 Bovine Herpetic Mammillitis in a dairy farm in Italy

G. Lanave, V. Larocca, M. Losurdo, C. Catella, P. Capozza, M. Tempesta, V. Martella, C. Buonavoglia, M. Camero

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P 38 Hepatitis E associated to consumption of wild boar sausages: a case report

K. Marinelli[1], S. Menzo[1], S. Fisichella[2], A. Duranti[3], P. Bagnarelli[1], G. Blasi[3], C. Belardinelli[4], T. Vicenza[5], E. Suffredini[5]

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P 39 EMA-RT(q)PCR for the detection of viable Hepatitis E virus in food matrices

T. Vicenza[1], L. Cozzi[1], S. Di Pasquale[1], R. Johne[3], I. De Magistris[1], R. Lena[2], A. Di Sandro[2], E. Suffredini[1], D. De Medici[1]

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P 40 **Virological survey of Hepatitis E virus in young swine population at the slaughterhouse: A molecular approach targeted to four biological matrices**

F. Grosjacques[1], E. Muratore[1], M. Messina[1], C. Candela[3], A.M. Vecchio[3], C. Beltramo[2], M. Botta[3], S. Peletto[2], L. Masoero[1]

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P 41 **Inter- and intra-farm genetic diversity of swine influenza viruses in northeastern Italy**

A. Fusaro, A. Milani, L. Cavicchio, A. Pastori, A. Schivo, G. Zamperin, I. Monne, M. Mion, M.S. Beato

Istituto Zooprofilattico Sperimentale delle Venezie, Padova, Italy

P 42 **Spatiotemporal dynamics of Usutu viruses in northeastern Italy**

A. Fusaro[1], A. Milani[1], S. Ravagnan[1], G. Da Rold[1], C. Mavian[2], A. Schivo[1], G. Zamperin[1], F. Toniolo[1], A. Michelutti[1], F. Montarsi[1], G. Capelli[1], I. Monne[1]

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P 43 **Retrospective analysis and follow-up of a cat positive to Hepadnavirus**

P. Capozza, G. Lanave, E. Delle Donne, G. Diakoudi, C. Catella, C. Buonavoglia, M. Camero, V. Martella

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P 44 **Assessment of Hepatitis E virus prevalence and quantitative levels in different food categories in Italy**

D. De Medici[1], A. Guercio[2], M.N. Losio[3], P. De Santis[4], G. Purpari[2], E. Pavoni[3], T. Vicenza[1], L. Cozzi[1], B.M. Varcasia[4], S. Di Pasquale[1], S. D'Amato[5], E. Suffredini[1], P. Schembri[6]

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P 45 **Cross reactivity antibody response after vaccination with modified live and killed bovine viral diarrhea virus (BVDV) vaccines**

C. Righi[1], E. Sozzi[2], M. Bazzucchi[1], D. Lelli[2], S. Petrini[1], M. Boldini[2], M. Gradassi[2], L. Ferroni[1], A. Lavazza[2], G.M. De Mia[1]

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P 46 **Genetic characterization of VP1/VP2 gene of recently identified Minute Virus of Canine in North-East Italy**

M. Campalto[1], M. Carrino[1], L. Tassoni[1], G. Rizzo[1], M. Cocchi[2], P. De Benedicitis[3], A. Natale[1], L. Selli[1], M.S. Beato[1]

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VIRAL DIAGNOSIS

P 47 **A new ELISA test for anti-HPV16 E7 circulating antibodies**

S. Falcucci[1], F. Mastrogiovanni[1], F. Paolini[1], A.M. Mileo[2], S. Massa[3], A. Rinaldi[4], R. Franconi[5], A. Venuti[1]

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P 48 **A novel multiplex molecular approach to diagnose Dengue, Chikungunya and Malaria simultaneously**

S. Sinha[1], R. Gahtori[1], P. Kumari[1], R.K. Baharia[2], M. Saxena[1], V. Pande[3], A.R. Anvikar[1], D. Savargaonkar[1]

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POSTER

VIRAL GENETICS AND BIOTECHNOLOGY

P 49 Detection of circulating HERV-K(HML-2), a human endogenous retrovirus, involved in cancer and amyotrophic lateral sclerosis

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P 50 Early reduction of the splicing factor2/alternative splicing factor, cellular inhibitor of the JC polyomavirus in natalizumab-treated MS patients long before developing progressive multifocal leukoencephalopathy

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VIRAL ONCOLOGY

P 51 Identification of small-molecule inhibitors of human papillomavirus E6-p53 interaction exerting anti-cancer activity

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P 52 Inhibition of NF-kB activation potentiates regulated cell death induced by azidothymidine in HTLV-1 infected cells

F. Marino-Merlo[1], C. Matteucci[2], E. Balestrieri[2], A. Minutolo[2], E. Valletta[2], S. Grelli[2], B. Macchi[3], A. Mastino[4,5]
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P 53 HTLV-1: the neglected and yet most oncogenic human pathogen

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P 54 Differential presence and expression of the splicing factor-2/alternative splicing factor (SF2/ASF) proto-oncogene in normal colon-rectal mucosa and biopsied samples from adenoma and adenocarcinoma lesions

C. Piu[1], E. Uleri[1], M. Caocci[1], G. Ibba[1], F. Sanges[2], G. Pira[2], L. Murgia[2], M. Barmina[2], A. Porcu[2], A.M. Scanu[2], M. R. De Miglio[2], C. Serra[1], A. Dolei[1]
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P 55 ECPV2 as a putative cause of equine gastric squamous cell carcinoma

I. Porcellato[1], P. Modesto[2], K. Cappelli[1], C. Brachelente[1], I. Martini[2], R. Gialletti[1], L. Mechelli[1], A. Ferrari[2], A. Ghelardi[3], E. Razzuoli[2]
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VIRUS-HOST INTERACTIONS

P 56 HHV-6A infection of microglial cells induces the expression of Alzheimer's disease risk factors
D. Bortolotti, V. Gentili, E. Caselli, A. Rotola, D. Di Luca, R. Rizzo
University of Ferrara, Department of Medical Sciences, Section of Microbiology and Medical Genetics, Ferrara, Italy

P 57 The US21 protein of Human Cytomegalovirus is a viroporin involved in the regulation of intracellular calcium homeostasis, apoptosis and cell migration
A. Luganini, G. Di Nardo, L. Munaron, G. Gilardi, A. Fiorio Pla, G. Gribaudo
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P 58 HIV-1 NefSF2 protein increases vesicles production in THP-1 human monocytic cells differentiated with PMA
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P 59 HHV-6 infection and systemic sclerosis: clues of a possible association
M. D'Accolti[1], I. Soffritti[1], D. Giuggioli[2], C. Ferri[2], E. Caselli[1]
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P 60 The retrocyclin analogue RC-101 inhibits Ebola virus infection in vitro
M. Mirandola[1], A. Calistri[1], W. Lu[2], C. Parolin[1], G. Palù[1], A. Garzino-Demo[1,2], C. Salata[1]
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P 61 HSV1 and Apoptosis: how virus fights against programmed cell death
M. Buratto, M. Sicurella, F. Nicoli, F. Salvatori, S. Chendi, M. Pappadà, A. Caputo, P. Marconi
Department of Chemical and Pharmaceutical Sciences, University of Ferrara

P 62 Circulating Extracellular Vesicles as new inflammation marker in HIV infection
K. Falasca[1], P. Lanuti[2], C. Ucciferri[1], D. Pieragostino[3,4], M.C. Cufaro[3,4], M.C. Bologna[2,3], P. Del Boccio[3,5], S. Miscia[2,3], A. Occhionero[1], M. Pontolillo[1], A. Auricchio[1], M. Marchisio[2], J. Vecchiet[1]
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P 63 Role of viral immediate early (IE) genes in maintenance of cellular homeostasis in HSV1-infected cells
M. Sicurella, F. Nicoli, M. Buratto, F. Salvatori, S. Chendi, M. Pappadà, R. Manservigi, A. Caputo, P. Marconi
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P 64 A global analysis of viral classical nuclear localization signals
E. Lavezzo, G. Palù, G. Alvisi
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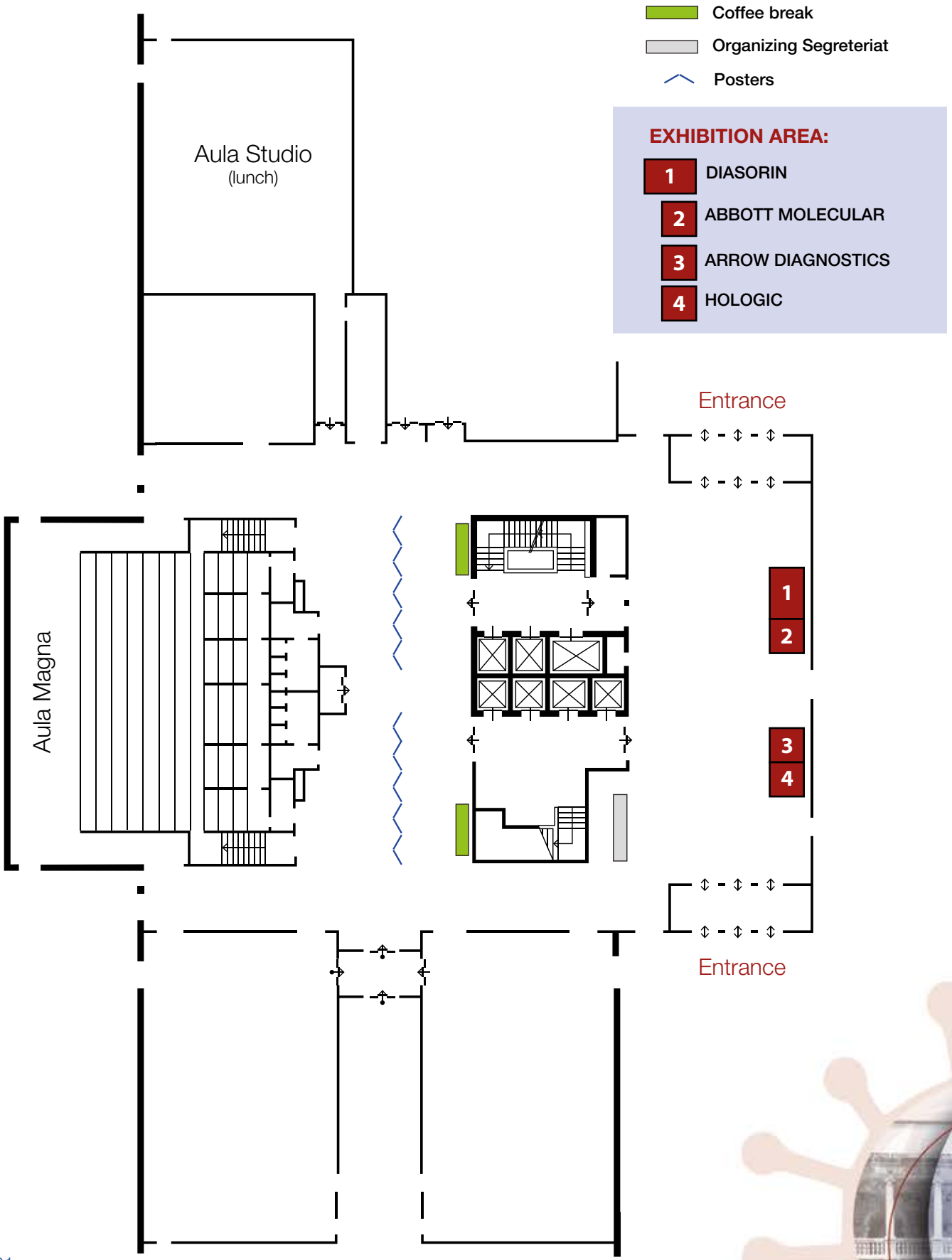
CONGRESS MAP



GENERAL INFORMATION

Congress Venues

Aula Magna, Polo "A. Vallisneri", Università degli Studi di Padova
Via G. Colombo, 3 - 35121 Padua, I
Palazzo Bo
Via VIII Febbraio, 3 - 35122 Padua, I

CME Accreditation

The 3rd National Congress of the Italian Society for Virology has been accredited to the Italian Ministry of Health for the following professionals **(ID ECM n. 150–267689 - 15,4 CME Credits)**: Medical Doctor (all disciplines), Biologist, Biotechnologist, Medical laboratory technician, Veterinary, Pharmacist, Physicist and Chemist.
To obtain credits, registered participants are required to:
• Wear the identification badge during working sessions
• Provide their signature and write entrance/exit times before and after attending working sessions
• Complete assessment and satisfaction questionnaires
Credits will be given only if a participant attends 90% of the teaching event and provides correct answers to at least 75% of the questions included in the final assessment questionnaire. Accreditation will be documented by the Provider in CME certificates that will be sent to participants.
Speakers will be given 1 credit for each half-hour of consecutive teaching.
Speakers and moderators can receive credits as students (see Participants).

National educational objective

Guidelines – protocols – procedures

Educational techniques

Master lessons, presentations about specific topics

SVC Assobiomedica

The Congress has been evaluated positively by SVC Assobiomedica in accordance with the standard evaluation system

Official languages

Italian and English (no simultaneous translation provided)

Provider and Organizing Secretariat

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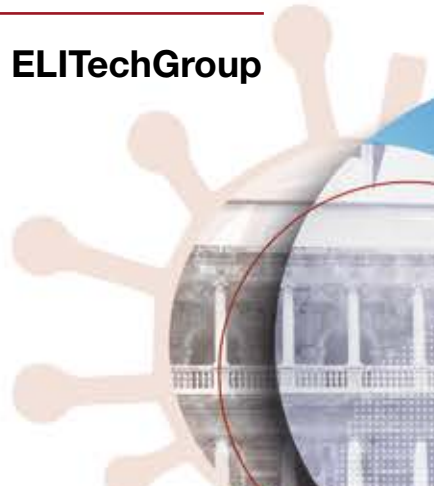

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