



**4th National Congress of the Italian
Society of Virology (SIV)**

Orvieto (TR), September 20-22, 2004

PROGRAMME

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September 20, 2004

14:00 - Opening session and welcoming

Chair: F.M. Ruggeri

14:30 - Plenary lecture

Avian influenza and human health.

Ilaria Capua, Padova

Session: Emerging and Re-Emerging Viral Diseases

Chair: F.M. Cancellotti – F.M. Ruggeri

14:55 - Does SARS CoronaVirus (SARS-CoV) Replicate in Monocytes-Derived Macrophages?

F. Pacciarini et al., Milano

15:10 - Epidemiological, virological and phylogenetic analysis of human metapneumovirus strains circulating in Northern Italy in the winter-spring season 2003-2004.

G. Campanini et al., Pavia

15:25 - Correlation Between TT Virus Infection and Levels of Eosinophil Cationic Protein in Children with Acute Respiratory Diseases.

F. Maggi et al., Pisa

15:40 - The role of glycosylation of PrP in its normal function and in TSE diseases.

E. Cancellotti et al., Edinburgh

15:55 - Interaction between porcine PLHV-1 and human HHV-8: implications for xenotransplantation.

E. Caselli et al., Ferrara

16:10 - Molecular characterization of noroviruses detected in cattle of Italian herds.

S. Magnino et al., Pavia

16:25 - Absence of correlation between expression of the multiple sclerosis-associated retrovirus (MSRV)/HERV-W in MS patients and controls and presence of human herpesvirus-6.

G. Mameli et al., Sassari

16:40 - Plenary lecture

Foodborne viruses: an emerging problem.

F.M. Ruggeri, Roma

17.05 - break

Chair: P. Marconi

17:35 - Plenary lecture

Genetic modification of hematopoietic stem cells: lessons from the clinical trials.

F. Mavilio, Milano.

Session: Viral Biotechnologies and Gene Therapy

Chair: A. Caputo – P. Marconi

18:00 - *In vivo* study of the PTH-rP DANN/IRIV vaccine for immune response into humanized transgenic mouse.

G. Di Genova et al., Siena

18:15 - Immunomodulation of cucumber mosaic virus infection by intracellular single chain antibody fragments.

R. Franconi et al., Roma

18:30 – Development and functional characterization of a self-inactivating FIV-derived vector.

B. Del Santo et al., Pisa

18:45 - Suppression of tumorigenicity of BKV T antigen transformed cells by an adenoviral vector expressing shRNAs.

S. Sabbioni et al., Ferrara

19:00 - Fowlpox and Canarypox-based SIV therapeutic vaccines elicit a high SIV-specific T-cell responses in vaccinia-experienced SIV-challenged macaques.

A. Radaelli et al., Milano

September 21, 2004

Chair: E. Affabris

8:30 - Plenary lecture

Virus evolution and persistence: an intimate connection.

M. Pistello, Pisa

Session: Virus Host Interactions and Pathogenesis

Chair: E. Affabris - M. Pistello

8:55 - *In vitro* treatment of human monocyte-derived macrophages with the HIV-1 regulatory protein Nef induces a rapid activation of the NF- κ B pathway.

G. Mangino et al., Roma

9:10 - Serological memory and B cell dysfunctions in chronic and primary HIV-1 infection.

A. De Milito et al., Stoccolma

9:25 - Inhibition of IKK2 prevents Human Cytomegalovirus replication and the virus-induced inflammatory response in endothelial cells.

P. Caposio et al., Torino

9:40 - IFN- β affects cell cycle progression and induces apoptosis in HPV-positive human cervical carcinoma cells. Studies on E6 gene silenced cells by expression of HPV16-E6 specific siRNA.

M.V. Chiantore et al., Roma

9:55 - HCV core protein expression leads to modulation of c-myc and P130 and affects HEPg2 cell cycle.

A. Ruggieri et al., Roma

10:10 - BKV regulatory region sequence variations in human polyomavirus associated nephropathy (PVAN).

A. Azzi et al., Firenze

10:25 - break

10:55 - Ovine skin organotypic cultures applied in the *ex vivo* study of orf virus infection.

F. Dal Pozzo et al., Bologna

11:10 - Interference of *Peach latent mosaic viroid* with chloroplast development.

F. Di Serio et al., Bari

Chair: M. Conti

11:25 - Plenary lecture

Biological and Molecular Aspects of Plant Viruses – Vectors Interactions.

B. Raccah, Bet Dagan

Session: Innovative Diagnostics
Chair: M. Zazzi – to be announced

11:50 - Detection of swine enteric caliciviruses (sapovirus and norovirus) in Italian farms.

D. Bassi et al., Brescia

12:05 - Heterosexual transmission of HIV-1 non-B subtypes in Italy.

M. Tagliamonte et al., Napoli

12:20 - Anti-HIV avidity index: a new method to estimate HIV infection.

B. Suligoj et al., Roma

12:35 - HCV and HBV epidemics in a north Italian dialysis center: molecular characterization and analysis of transmission mode.

G. Domenico et al., Roma

12:50 - break

13:50 - Congenital cytomegalovirus infection and hearing loss in Italy.

M. Barbi et al., Milano

14:05 - Evaluation of quantitative PCR assay for the determination of physical status and viral load of HPV 16 DNA.

M. Cricca et al., Bologna

14:20 - Effect of antiretroviral therapy on differentiation and gene expression profile of 3T3-L1 preadipocytes.

M. Pacenti et al., Padova

Roundtable on HCV

Chair: M. Rapicetta – P.E. Valensin

14:35 - Genetic heterogeneity of hepatitis C virus.

P. Farci, Cagliari

14:55 - The immune system from the HCV point o view.

S. Abrignani, Siena

15:15 - A T-cell based HCV vaccine capable of blunting acute viremia and protecting from acute and chronic disease induced by heterologous virus challenge in chimpanzees.

A. Nicosia, Roma

15:35 - Epidemiology and primary prevention of HCV infection.

S. Zanetti, Milano

15:55 - A novel ribonucleoside analog with a potent antiviral activity against chronic hepatitis C virus infection.

P. La Colla, Cagliari

16:15 - Discussion

16:40 - coffee break

Chair: A. Dolei

17:10 - Plenary lecture

Autocrine And Intracrine Signaling For Cardiogenesis In Embryonic Stem Cells.

C. Ventura, Bologna

17:35 - 19:50 Society Meeting

19:50 - Get Together

21:00 - 22:30 Poster Session

September 22, 2004

Chair: A. Dolei

8:30 - Plenary lecture

JC virus: a common agent with a multiple pathogenic potentiality.

P. Ferrante, Milano

Session: General Virology and Viral Genetics

Chair: A.M. Iorio - L. Rubino

8:55 - Inhibition of cell cycle progression in cells expressing Hepatitis C Virus proteins.

A.R. Ciccaglione et al., Roma

9:10 - The replication of tombusvirus subviral RNAs in yeast.

L. Rubino et al., Bari

9:25 - HPV16 variants in the Italian population.

F.M. Buonaguro et al., Napoli

9:40 - The E5 oncoprotein of HPV16 inhibits death receptor-independent apoptosis.

A. Cirilli et al., Roma

9:55 - B19 *in vitro* infection of permissive systems: a quantitative analysis of virus replication and expression.

F. Bonvicini et al., Bologna

10:10 - Construction and functional analysis of B19 genomic clones.

S. Delbarba et al., Bologna

10:25 - break

Chair: C. Giorgi

10:50 - Plenary lecture

Papillomavirus and immunomodulation: playing hide-and-seek.

S. Campo, Glasgow

Session: Viral Immunology and Vaccine

Chair: M.G. Cusi – C. Giorgi

11:15 - Induction of Human Immunodeficiency Virus (HIV) broad spectrum neutralizing antibodies with fusion complexes.

D. Zipeto et al., Verona

11:30 - Immunogenic activity of subtype A HIV-1 Virus-like Particles (HIV-VLP_{AS}) administered by different routes alone in prime/boost protocols.

L. Buonaguro et al., Napoli

11:45 - ORF-A as candidate vaccine against feline immunodeficiency virus: analysis of immune response and outcome following challenge.

P. Isola et al., Pisa

12:00 - Dendritic cell tropism of human cytomegalovirus is determined by the same UL131-128 genes driving endothelial cell tropism and virus transfer to leukocytes.

D. Lilleri et al., Pavia

12:15 - Antigenic characterization of the Resus rotavirus VP8* surface protein expressed in *Escherichia coli*.

M. Monini et al., Roma

Session: Antiviral Therapy
Chair: G. Palù - to be announced

12:30 - The release of extracellular multiple sclerosis (MS)-associated retrovirus (MSRV) is inhibited by interferon beta both *in vivo* and *in vitro* and increased *in vitro* by proinflammatory cytokines.

C. Serra et al., Sassari

12:45 - Disruption of the interaction between the HCMV DNA polymerase subunits: toward new anti-HCMV inhibitors.

A. Loregian et al., Padova

13:00 - Antiviral activity of HPMPC (cidofovir) against orf virus in experimentally infected lamb.

L. Gallina et al., Bologna

13:15 - Natural polymorphisms associated with differential pathways to multi-nucleoside analog resistance in HIV-1.

M. Zazzi et al., Siena

13:30 - Fatal evolution of Kaposi Sarcoma (KS) and Primary Effusion Lymphoma (PEL) in HIV-Patient Despite Successful Highly Antiretroviral Therapy.

S.G. Parisi et al., Padova

13:45 - Closing Remarks

Poster Session

- 1) HCV genotypes and subtypes analysis in patients attending to the Bolzano Central Hospital.
E. Pagani et al., Bolzano
- 2) Translational controls in the feline immunodeficiency virus.
V. Camerini et al., Pisa
- 3) Enterovirus recovery in domestic wells of the Salento groundwater (Southern Italy).
A. Calvario et al., Bari
- 4) Viral, host and pathological profile of WHV/HDV infection in woodchuck model.
C. Argentini et al., Roma
- 5) Search for WHV integration sites in liver tumours showing *N-myc2* activation in absence of WHV insertion in Known target regions.
I. Conti et al., Roma
- 6) Bovine Viral Diarrhea virus (BVDV) variability in Persistent Infected and Mucous Disease affected cattle.
S. Ciulli et al., Bologna
- 7) Genetic characterization of a border disease virus isolate: evidence for the presence of a novel pestivirus genotype and implications for classification.
G.M. De Mia et al., Perugia
- 8) Phylogenetic analysis of the *env* gene of MSR/HERV-W circulating among Sardinians.
G. Mameli et al., Sassari
- 9) Analysis of the HPV types prevalence and of the anti HPV antibodies in a cohort of women with HPV-associated lesions.
C. Giorgi et al., Roma
- 10) Analysis of HHV-8 infection in lymphoblastoid and monocytic cell lines.
C. Salata et al., Padova
- 11) Molecular detection of Hepatitis A in naturally contaminated shellfish collected in the region of Marche (Italy) by RT-hemi-nested PCR.
F. Leoni et al., Ancona
- 12) Expression of *Human herpes simplex virus type 2* glycoprotein D in *Nicotiana* mediated by PVX infection.
A. Minafra et al., Bari
- 13) Production of a candidate HIV-1 vaccine in transgenic tobacco plants.
M. Fraccaroli et al., Verona
- 14) Induction of a broad range of anti-Tat immune responses in mice by priming with a *tat*-DNA vaccine complexed with K2 cationic block copolymers and boosting with Tat protein.
R. Voltan et al., Ferrara

15) Expression of HIV-1 NDK m7 and m9 *env* genes in eukaryotic cells for the induction of HIV-1 neutralizing antibodies.

P. Rossolillo et al., Verona

16) MF-59adjuvanted influenza vaccine: immunogenicity and protection in adult and elderly volunteers (winter season 2003/04).

A.M. Iorio et al., Perugia

17) Monitoring for human cytomegalovirus (HCMV) infection in solid organ transplant recipients through pp65 antigenemia and gN variants.

S. Pignatelli et al., Bologna

18) Effect of interferon α on human hepatoma cell lines: DNA microarrays analysis and evaluation of cell proliferation.

K. Fincati et al., Padova

19) Viral infection risk in skin allograft transplantation: a model study.

M.L. Scarasciulli et al., Bari

20) Detection and typing of Human Cytomegalovirus DNA in colorectal cancer.

S. Costantini et al., Verona

21) Central role of AIP1/Alix and different ESCRTIII in retroviral budding.

A. Calistri et al., Padova

22) Evaluation of biological effects of Kaposi's sarcoma-associated G protein-coupled receptor in THP-1 monocytic tumor cell line and BJAB B-cell line.

P. Beggio et al., Padova

23) Nuclear import pathway of the human cytomegalovirus DNA polymerase subunits UL44 and UL54.

G. Alvisi et al., Bologna

24) BKV replication and modulation in human kidney cells.

L. Carboni et al., Sassari

25) A mouse model for the pathogenesis of Coxsackievirus infection.

L. Fiore et al., Roma

26) Characterization of nuclear localization signals of HTLV-II Tax protein.

M. Turci et al., Verona

27) Cytopathology of maize cells infected by maize necrotic streak and maize white line mosaic viruses.

A. De Stradis et al., Bari

28) Pathogenesis of Leukoencephalopathies in HIV positive patients treated with Highly Active Antiretroviral Therapy.

S. Delbue et al., Milano

29) Restriction of Influenza virus multiplication induced by treatment with a yeast killer toxin-like synthetic peptide.

G. Conti et al., Parma

30) Antiviral activity of propolis.

C. Cermelli et al., Modena

31) Antiviral activity of new benzothiadiazine dioxide derivatives.

C. Cermelli et al., Modena

32) Antiviral 6-amino-quinolones: biophysical and biochemical studies relevant to the mechanism of action.

S. Richter et al., Padova

33) Non replicative herpes simplex virus type 1 vectors encoding antiangiogenic molecules and TK suicide gene: innovative antitumoral gene therapy approach.

I. Volpi et al., Ferrara

34) HPV16 E7 knock out by E7-specific intrabodies.

L. Accardi et al., Roma

35) Chimeric immunoglobulin genes as a new immunization approach against HIV-1.

S. Masiero et al, Padova

36) Improved retroviral vectors for gene therapy of hepatocellular carcinoma (HCC).

A.L. Stefani et al., Padova

37) Molecular detection of deformed wing virus (DWV) in Honeybees and its mite vector.

G. Parrella et al., Napoli

38) Serologic and molecular detection of human herpesvirus 8 (HHV-8) in different biologic samples from patients affected by Kaposi's Sarcoma.

R. Biffi et al., Milano

39) Viral infection monitoring in solid organ and bone marrow transplant recipients.

A.G. Celeste et al., Siena

40) Molecular diagnostic tools for investigating outbreaks of gastroenteritis caused by Norovirus.

S. Crudeli et al., Roma

41) Report of an outbreak of Norovirus gastroenteritis in a turist resort of the Abruzzo coastal area.

G. Savini et al., Teramo

42) Evaluation of the S2 gene of strains of Bluetongue virus isolated in the Mediterranean basin during the 1998-2002.

G. Savini et al., Teramo

43) SARS CoronaVirus (SARS-CoV) is inactivated by Helinx® Technology in Human Platelet Concentrates.

D. Pinna et al., Milano

44) Molecular characterization of group A rotavirus circulating in calves in Northern Italy.

P. Battista et al., Roma

45) Evidence of genetic variation of capsid protein VP7 in genotype G4 human rotavirus strains circulating in Palermo in the period 1990-2003.

S. Arista et al., Palermo

46) Incidence of enteric viruses in mussels harvested in the Northern Adriatic sea production areas.

E. Pavoni et al., Brescia