



Istituto Veneto
di Scienze Lettere
ed Arti

Welcome to the International Workshop on Viruses, Genes and Cancer - 2012. This is the third edition of the workshop whose title and content reflect the wealth of knowledge that is continuously being mined from investigations of the interactions between human oncogenic viruses and host cells. The program includes a series of keynote lectures that provide a foundation for concise presentations addressing the pathogenesis of viruses associated with human cancer as well as prevention and treatment strategies.

As in the previous edition, we have scheduled a poster session to engage young researchers and foster further collaborative research in the fields of viral and molecular oncology.

We wish to thank all of the participants for contributing to the workshop, and hope that you will enjoy an intellectually stimulating scientific experience and pleasant stay in Venice.

We gratefully acknowledge the support of the National Institutes of Health Office of AIDS Research, the Istituto Oncologico Veneto-IRCCS, Nerviano Medical Sciences, the Cassa di Risparmio di Venezia, and the Pezcoller Foundation.

The organizing committee

Alberto Amadori, Umberto Bertazzoni, Luigi Chieco-Bianchi, Vincenzo Ciminale, Donna D'Agostino, Genoveffa Franchini



VIRUSES, GENES AND CANCER - 2012

October 25-27, 2012

Palazzo Cavalli Franchetti, Istituto Veneto di Scienze,
Lettere ed Arti
Campo Santo Stefano - Venezia

promoted by



Istituto Veneto
di Scienze Lettere
ed Arti

Istituto Veneto di Scienze
Lettere ed Arti



Università degli Studi
di Padova



Istituto Oncologico
Veneto



Fondazione per l'incremento
dei trapianti d'organo
e di tessuti



Consorzio per la ricerca
sul trapianto di organi,
tessuti, cellule e medicina rigene-
rativa

THURSDAY, OCTOBER 25

8.30 **REGISTRATION**

9.30 **OPENING REMARKS**

Luigi Chieco-Bianchi
Università di Padova, Padova, Italy

Gian Antonio Danieli
President, Istituto Veneto di Scienze, Lettere ed Arti, Venezia, Italy

SESSION I - CELLULAR PATHWAYS AND CANCER

Chairpersons Alberto Amadori
Istituto Oncologico Veneto-IRCCS, Padova, Italy

Genoveffa Franchini
National Cancer Institute, Bethesda, Maryland, USA

9.50 Rudiger Hehlmann
*Medizinische Fakultät Mannheim der Universität Heidelberg,
Heidelberg, Germany*
**From Abelson virus to eradication of BCR-ABL in chronic
myeloid leukemia**

10.10 Stefano Piccolo
Università di Padova, Padova, Italy
On the molecular nature of cancer stem cells

10.30 Paolo Bernardi
Università di Padova, Padova, Italy
**To breathe or not to breathe: control of mitochondrial
respiration by the chaperone TRAP1 in cancer**

10.50-11.10 **COFFEE BREAK**

11.10 **Lecture. Chaired by Luigi Chieco-Bianchi**
Università di Padova, Padova, Italy

Harald zur Hausen
German Cancer Research Center, Heidelberg, Germany
**The role of virus infections in childhood leukemia
and colorectal cancer**

SESSION II - VIRUSES AND CANCER

- Chairpersons Vincenzo Ciminale
Università di Padova, Padova, Italy
- Maria Masucci
*Department of Cell and Molecular Biology, Karolinska
Institutet, Stockholm, Sweden*
- 12.00 Massimo Tommasino
*International Agency for Research on Cancer/World Health
Organization, Lyon, France*
Molecular mechanisms of cutaneous HPV types
- 12.20 Michael Pawlita
German Cancer Research Center/DKFZ, Heidelberg, Germany
HPV markers in tumors of the upper aerodigestive tract
- 12.40-13.40 **LUNCH**
- 13.40 Toshiki Watanabe
University of Tokyo, Tokyo, Japan
The role of microRNAs in Adult T-Cell Leukemia
- 14.00 Thomas Schulz
Institute of Virology, Hannover Medical School, Hannover, Germany
Kaposi Sarcoma-associated Herpesvirus K15 protein
contributes to virus-induced angiogenesis by activating
PLCgamma and MAP4K4
- 14.20 Luc Willems
Gembloux Agro-Bio Tech/University of Liège, Belgium
How the DNA damage response determines the fate
of HTLV-1 Tax-expressing cells
- 14.40 Masao Matsuoka
Institute for Virus Research, Kyoto University, Kyoto, Japan
Molecular pathogenesis by HTLV-1 bZIP factor

15.00 **Lecture.** *Chaired by* Marco Pierotti
Istituto Nazionale Tumori, Milan, Italy

Carlo M. Croce
Ohio State University, Columbus, Ohio, USA
MicroRNA deregulation as a predictive marker for lung cancer

15.30-15.50 **COFFEE BREAK**

SESSION III - VIRAL REPLICATION, PERSISTENCE AND REACTIVATION

Chairpersons Donna D'Agostino
Università di Padova, Padova, Italy

Massimo Tommasino
International Agency for Research on Cancer/World Health Organization, Lyon, France

15.50 Alessandro Marcello
International Centre for Genetic Engineering and Biotechnology, Trieste, Italy
Live cell analysis of viral RNA: transcription, replication and interaction with host factors

16.10 Barbara K. Felber
National Cancer Institute at Frederick, Maryland, USA
RNA export: a common regulatory step essential for retrovirus production

16.30 Vincenzo Ciminale
Università di Padova, Padova, Italy
ROS homeostasis in T-cell transformation: insights from HTLV-1

16.50 Wolfgang Hammerschmidt
Helmholtz Zentrum München, German Research Center for Environmental Health, Munich, Germany
microRNAs of Epstein-Barr virus and their functions in infected human B cells'

- 17.10 Jacques Archambault
*Molecular Virology Unit, Institut de Recherches Cliniques
de Montréal, Montréal, Québec, Canada*
**Human papillomavirus genome replication: host factors
and candidate antiviral targets**
- 17.30 Mauro Giacca
*International Centre for Genetic Engineering and Biotechnology,
Trieste, Italy*
**Nuclear topography regulates HIV-1 DNA integration
and latency**
- 17.50 Maria Masucci
*Department of Cell and Molecular Biology,
Karolinska Institutet, Stockholm, Sweden*
**Hijacking of cellular functions for virus persistence
and reactivation**
- 18.10 Session closes
- 19.00 Poster Session at the Centro Culturale
Don Orione-Artigianelli, Rio Terrà Foscari 909/A

FRIDAY, OCTOBER 26

SESSION IV - VIRUSES AND THE IMMUNE SYSTEM

- Chairpersons Umberto Bertazzoni
University of Verona, Italy
- Guido Poli
Università Vita e Salute, Ospedale S. Raffaele, Milan, Italy
- 9.00 Raflick Sekaly
*Vaccine and Gene Therapy Institute of Florida, Port St. Lucie,
Florida, USA*
PD-1: a master regulator of HIV latency and T-cell homeostasis
- 9.20 Frank Maldarelli
*HIV DRP Host-Virus Interaction Branch, National Cancer Institute,
Bethesda, Maryland, USA*
HIV reservoirs: clinical studies and interventional trials
- 9.40 Charles RM Bangham
*Department of Immunology, Imperial College
Wright-Fleming Institute, London, UK*
HTLV-1 infection: clonality and the immune response
- 10.00 Anna Aldovini
Harvard Medical School, Boston, Massachusetts, USA
**Host-pathogen interactions mediated by HIV Tat in antigen
presenting cells**
- 10.20 Roberto Accolla
*Department of Surgical and Morphological Sciences,
University of Insubria, Varese, Italy*
**CIITA: a viral restriction factor for HIV-1 and HTLV-1/2
retroviruses**
- 10.40-11.00 **COFFEE BREAK**

- 11.00 Joseph McCune
University of California, San Francisco, California, USA
HIV eradication: rationale and current steps
- 11.20 Genoveffa Franchini
National Cancer Institute, Bethesda, Maryland, USA
Correlates of protection from acquisition in the SIVmac251 macaque model
- 11.40 Marjorie Robert-Guroff
National Cancer Institute, Bethesda, Maryland, USA
Contribution of innate and adaptive immune responses to protection against HIV/SIV infection
- 12.00 **Lecture.** *Chaired by Paola Zanovello*
Università di Padova, Padova, Italy
- Alberto Mantovani
Istituto Humanitas, Milan, Italy
Inflammation and cancer
- 12.30-13.30 **LUNCH**

SESSION IV, PART 2 - VIRUSES AND THE IMMUNE SYSTEM

- Chairpersons Anna Aldovini
Harvard Medical School, Boston, Massachusetts, USA
- Volker Erfle
National Research Center for Environment and Health, Munich, Germany
- 13.30 Andrea Cerutti
The Mount Sinai Medical Center, New York, New York, USA
A novel innate immune pathway for antibody production: implications for vaccine development

13.50 Warner Greene
Gladstone Institute of Virology and Immunology, University of California San Francisco, San Francisco, California, USA
Pyroptosis drives both CD4 T cell depletion and inflammation during HIV infection

14.10 Jeremy Luban
University of Massachusetts Medical School, Worcester, Massachusetts, USA
TRIM5 is an innate immune receptor for the HIV-1 capsid lattice

14.30 Christoph Neumann-Haefelin
Universitaetsklinikum Freiburg, Freiburg, Germany
Protective CD8+ T cell responses in viral hepatitis B and C

14.50 Leonid Margolis
Eunice Kennedy Shriver National Institute of Child Health and Human Development, Bethesda, Maryland, USA
HIV-1 transmission and replication: how viruses convert the cytokine network for their benefit

15.10 **Lecture.** *Chaired by Giancarlo Vecchio*
Università Federico II, Naples, Italy

Riccardo Dalla Favera
Institute for Cancer Genetics, Columbia University, New York, NY, USA
The genomes of B cell malignancies

15.40-16.00 **COFFEE BREAK**

SESSION V - DISEASE PROGRESSION AND INTERVENTION

Antonio Siccardi
S. Raffaele Scientific Institute, Milan, Italy

Robert Yarchoan
Retroviral Disease Section HIV and AIDS Malignancy Branch, National Cancer Institute, Bethesda, Maryland, USA

- 16.00 John Doorbar
Division of Virology, National Institute for Medical Research, London, UK
The papillomavirus life-cycle and its de-regulation during neoplasia and cancer progression
- 16.20 Jay Berzofsky
Vaccine Branch, Center for Cancer Research, National Cancer Institute, Bethesda, Maryland, USA
Cancer vaccine strategies: basic research and clinical translation
- 16.40 Patrizia Farci
National Institute of Allergy and Infectious Diseases, Bethesda, Maryland, USA
Rapid progression of hepatitis C: the die is cast early
- 17.00 Robert Yarchoan
Retroviral Disease Section HIV and AIDS Malignancy Branch, National Cancer Institute, Bethesda, Maryland, USA
KSHV-Associated Malignancies: from Clinic to Lab and back
- 17.20 Stefano Indraccolo
Istituto Oncologico Veneto-IRCCS, Padova, Italy
Notch1-targeted therapy for T acute lymphoblastic leukemia
- 17.40 Ali Bazarbachi
American University of Beirut Medical Center, Beirut, Lebanon
New developments in targeted therapy of ATL
- 18.00 Steve Jacobson
National Institute of Neurological Disorders and Stroke, Bethesda, Maryland, USA
Interventional strategies for the treatment of HTLV-1-associated neurologic disease
- 18.20 Session Adjourns
- 20.00 Social Dinner all'Ombra del Leone
Ca' Giustinian, San Marco 1364/A

SATURDAY, OCTOBER 27

SESSION VI - TREATMENT/PREVENTION OF PERSISTENT VIRAL INFECTIONS

- Chairpersons Anita De Rossi
Università di Padova, Padova, Italy
- Luigi Buonaguro
Istituto Nazionale Tumori-IRCCS Fondazione G. Pascale, Naples, Italy
- 9.00 Mario Stevenson
Division of Infectious Diseases, University of Miami Leonard M. Miller School of Medicine, Miami, Florida, USA
Obstacles to HIV eradication
- 9.20 David I. Watkins
Department of Pathology, University of Miami Miller School of Medicine, Miami, Florida, USA
Vaccine-induced CD8+ T cells control AIDS virus replication
- 9.40 Elisa Scarselli
Okairos, Pomezia, Italy
Development of novel vectored vaccines for infectious diseases and cancer: the HCV case
- 10.00 John P. Moore
Weill Cornell Medical College, New York, NY, USA
Vaccine-microbicide combinations to prevent HIV-1 sexual transmission
- 10.20-10.40 **COFFEE BREAK**

SESSION VI, PART 2 - TREATMENT/PREVENTION OF PERSISTENT VIRAL INFECTIONS

- Chairpersons Annarosa Del Mistro
Istituto Oncologico Veneto-IRCCS, Padova, Italy
- Franco Buonaguro
Istituto Nazionale Tumori-IRCCS Fondazione G. Pascale, Naples, Italy

- 10.40 John Schiller
*Neoplastic Disease Section, National Cancer Institute, Bethesda,
Maryland, USA*
Vaccines for HPV
- 11.00 Chris Buck
*Tumor Virus Molecular Biology Section, National Cancer Institute,
Bethesda, Maryland, USA*
Development of a vaccine against BK polyomavirus
- 11.20 George N. Pavlakis
National Cancer Institute at Frederick, Maryland, USA
Cytokines, immunotherapies and vaccines
- 11.40 Stuart Legrice
National Cancer Institute, NCI-Frederick, Maryland, USA
Gardening, green thumbs and HIV-1 ribonuclease H inhibitors
- 12.00 **Closing Remarks**

NOTES

NOTES



Istituto Veneto di Scienze,
Lettere ed Arti
San Marco 2945
30124 Venezia
telefono +39 0412407711
fax +39 0415210598
ivsla@istitutoveneto.it
www.istitutoveneto.it