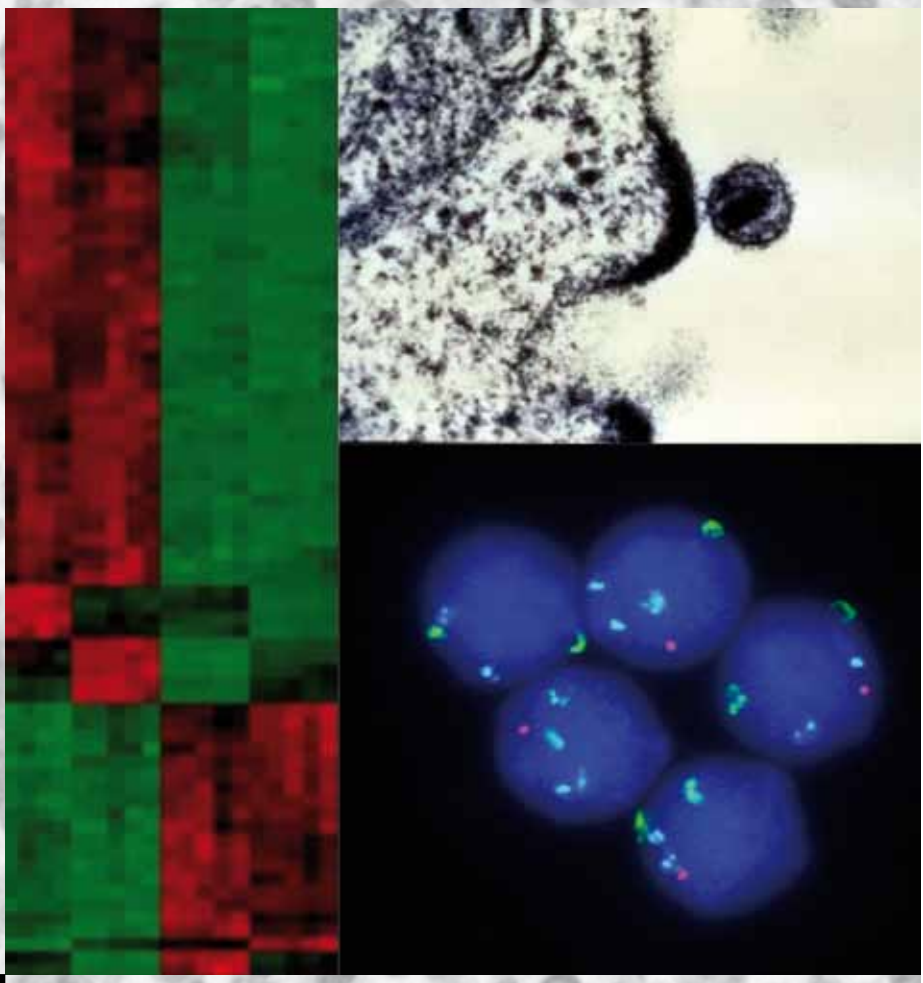

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Welcome to the International Workshop on Viruses, Genes and Cancer - 2010. This is the second edition of the workshop whose title and content reflect the wealth of knowledge that is continuously being mined from investigations of the interactions between human retroviruses and host cells. The program includes a series of keynote lectures that provide a foundation for brief presentations addressing the pathogenesis of the human T-cell leukemia viruses (HTLV) and human immunodeficiency virus (HIV), and the molecular mechanisms of cancer. To foster further collaborative research in the fields of viral and molecular oncology, this year's edition also includes a poster session (fuelled by traditional Venetian 'cicchetti').

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

The organizing committee
Genoveffa Franchini, Donna D'Agostino,
Umberto Bertazzoni, Vincenzo Ciminale,
Luigi Chieco-Bianchi

Photo kindly provided by F. Ferruzzi

VIRUSES, GENES AND CANCER - 2010

September 29 - October 1, 2010
Istituto Veneto di Scienze, Lettere ed Arti
Palazzo Cavalli Franchetti
Campo Santo Stefano, Venezia

promosso da

National Institutes of Health

National Cancer Institute

Istituto Veneto di Scienze Lettere ed Arti

Istituto Oncologico Veneto

Università degli Studi di Padova

Università degli Studi di Verona

Istituto Superiore di Oncologia

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

Consorzio per la ricerca sul trapianto di organi, tessuti, cellule e medicina rigenerativa

con il sostegno di

CASSA DI RISPARMIO DI VENEZIA

WEDNESDAY - SEPTEMBER 29, 2010

13.00 - 14.00 **REGISTRATION**

14.00 - 14.30 **OPENING REMARKS**

Luigi Chieco-Bianchi
University of Padova, Italy

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

14.30 - 17.15 **STATE OF THE ART LECTURES**

chairs

Alberto Amadori
Istituto Oncologico Veneto-IRCCS, Padova, Italy

Umberto Bertazzoni
University of Verona, Italy

lectures

Robert C. Gallo
Institute of Human Virology, University of Maryland School of Medicine, Baltimore, USA
Concepts and progress report on an antibody-based vaccine for HIV

Stephen P. Goff
Columbia University, New York, USA
XMRV replication in prostate cell lines: Transcription and restriction

Neal S. Young
National Heart, Lung and Blood Institute, Bethesda, USA
Telomerase genes in human diseases

BREAK

Carlo M. Croce
Ohio State University, Columbus, USA
Causes and consequences of microRNA dysregulation in cancer

Paolo M. Comoglio
Institute for Cancer Research and Treatment, Candiolo, Italy
Invasive growth: a genetic program driven by the MET oncogene

WORKSHOP: HTLV REGULATION AND PATHOGENESIS

17.20 - 18.00 **SESSION I - TAXONOMY OF THE HTLV FAMILY**

chair

Genoveffa Franchini
National Cancer Institute, Bethesda, USA

Luiz Alcantara
National Cancer Institute, Bethesda, USA

presentations

Antoine Gessain
Institut Pasteur, Paris, France
HTLV: an expanding virus family

William M. Switzer
Centers for Disease Control and Prevention, Atlanta, USA
Doubling the Diversity of HTLV: Discovery and distribution of HTLV-3 and HTLV-4

20.30 - 23.00 **SOCIAL DINNER**

09.00 - 10.15 **SESSION II - VIRUS ENTRY**

chairs

William M. Switzer
Centers for Disease Control and Prevention, Atlanta, USA

Luc Willems
University of Liège, Belgium

presentations

Marc Sitbon
Institut de Génétique Moléculaire, Montpellier, France
Retroviral receptor binding domains as new surface markers of cell metabolism

Kathryn S. Jones
National Cancer Institute, SAIC-Frederick, USA
Dendritic cells in HTLV-1 transmission and pathogenesis

Charles R. Bangham
Imperial College School of Medicine, London, UK
HTLV-1: Mechanisms of persistence and cell-to-cell spread in the host

Maria-Isabel Thoulouze
Institut Pasteur, Paris, France
HTLV-1 transmission at the virological synapse: Key role of 'viral biofilms'

Genoveffa Franchini
National Cancer Institute, Bethesda, USA
The HTLV-I orf-I gene regulates virus transmission and persistence

10.15 - 11.30 **SESSION III**
STRUCTURAL PROTEINS / CELLULAR RESTRICTION FACTORS

chairs

Kathryn S. Jones
National Cancer Institute, SAIC-Frederick, USA

Claudine Pique
Institut Cochin, Paris, France

presentations

Hung Y. Fan
University of California - Irvine, USA
MuLV glycosylated gag facilitates MuLV and HIV release through lipid rafts"

David W. Brighty
University of Dundee, UK
Charge-surrounded pockets and electrostatic interactions with small ions modulate the activity of retroviral fusion proteins

Alexander Wlodawer
National Cancer Institute, Frederick, USA
Structural studies of the complexes of HTLV-1 protease with inhibitors

Gisela Fanning- Heidecker
National Cancer Institute, Frederick, USA
Evolution in action: Diverse mechanisms for retrovirus resistance to APOBEC3 restriction

Giovanna Tosi
University of Insubria, Varese, Italy
The MHC-II transactivator CIITA, a viral restriction factor inhibiting the replication of HTLV-1

11.30 - 11.45 **BREAK**

11.45 - 12.30 **SESSION IV - VIRAL ACCESSORY GENES**

chairs

Vincenzo Ciminale, *University of Padova, Italy*

Paolo Bernardi, *University of Padova, Italy*

presentations

Anna Hryniewicz, *University of Bialystok, Poland*
Requirement of the HTLV p12 and p30 genes for infectivity of human dendritic cells and macaques but not rabbits

Vibeke Andresen, *University of Bergen, Norway*
Suppression of HTLV-I replication by Tax –mediated re-routing of the p13 viral protein to the nuclear speckles

Izabela Bialuk
Medical University of Bialystok Mickiewicza, Poland
Orf I polymorphism and virus level in HTLV-I infected patients

12.30 - 13.15 **SESSION V - THE HBZ GENE**

chairs

Donna M. D'Agostino
University of Padova, Italy

Renaud Mahieux
Ecole Normale Supérieure de Lyon, France

presentations

Jean-Michel Mesnard
Université Montpellier, France
What sense can we make out of antisense transcription in complex retroviruses?

Masao Matsuoka
Institute for Virus Research, Kyoto University, Japan
Molecular pathogenesis by the HTLV-1 bZIP factor gene

Isabelle Lemasson
East Carolina University, Greenville, USA
Transcriptional regulation by the HTLV-1-encoded protein HBZ

13.15 - 14.15 **LUNCH**

14.15 - 15.00 **SESSION VI - THE TAX PROTEIN (1)**

chairs

Franco Buonaguro
Istituto Nazionale Tumori, Naples, Italy

Claudio Casoli
University of Milan, Italy

presentations

Claudine Pique
Institut Cochin, Paris, France
Cellular factors that modulate Tax post-translational modifications and NF-kappaB activation

Susan J. Marriott
Baylor College of Medicine, Houston, USA
Disruption of the cellular response to DNA damage by the HTLV-1 Tax oncoprotein

Jennifer K. Nyborg
Colorado State University, Fort Collins, USA
Tax promotes acetylation-dependent nucleosome eviction from the HTLV-1 promoter

15.00 - 16.00 **SESSION VII - THE TAX PROTEIN (2)**

chairs

Susan J. Marriott
Baylor College of Medicine, Houston, USA

Daniela Saggioro
Istituto Oncologico Veneto-IRCCS, Padova, Italy

presentations

Chou-Zen Giam
Uniformed Services University of the Health Sciences, Bethesda, USA
Too much of a good thing: HTLV-1 Tax, NF-kappa B activation, and cellular senescence

Françoise Bex
Université Libre de Bruxelles, Belgium
Move or die: the fate of the Tax protein of human T-cell leukemia virus

Umberto Bertazzoni
University of Verona, Italy
Mechanisms of HTLV-1 and HTLV-2 Tax protein regulation of signal transduction

Masahiro Fujii
Niigata University, Japan
Functional differences between Tax1 and Tax2 play key roles in HTLV-1 pathogenesis

16.00 - 16.15 **BREAK**

16.15 - 17.15 **SESSION VIII - VIRAL EXPRESSION AND PATHOGENESIS (1)**

chairs

Toshiki Watanabe
University of Tokyo, Japan

Roberto S. Accolla
University of Insubria, Varese, Italy

presentations

Donna M. D'Agostino
University of Padova, Italy
MicroRNA expression in HTLV-1-transformed T-cells

Vincenzo Ciminale
University of Padova, Italy
Control of ROS production and T-cell turnover by the p13 protein of HTLV-1

Arnold Rabson
UMDNJ-Robert Wood Johnson Medical School, New Brunswick, USA
Activation of HTLV-1 expression in chronically-infected CD4+ T-cells: Mechanisms and implications for pathogenesis

Andrea Kress
Friedrich Alexander-Universität Erlangen, Germany
Specific up-regulation of the tumor marker Fascin by Tax

17.15 - 18.15 **SESSION IX - VIRAL EXPRESSION AND PATHOGENESIS (2)**

chairs

Cynthia A. Pise-Masison
National Cancer Institute, Bethesda,USA

Emanuele Cozzi
Consortium for Research in Organ Transplantation and Padova General Hospital, Padova, Italy

presentations

Eric Wattel
CNRS, Center Léon Bérard, Lyon, France
Clonal persistence of HTLV-1 in vivo

Luc Willems
University of Liège, Belgium
Influence of viral expression on the fate of BLV-infected cells in sheep

Ali Bazarbachi
American University of Beirut Medical Center, Lebanon
Targeting Tax and leukemia initiating cells in ATL

Lee Ratner
Washington University School of Medicine, St. Louis, USA
Transgenic models of HTLV-1-associated neoplasia

18.35 - 21.00 **POSTER SESSION WITH LIGHT REFRESHMENTS AT THE HOTEL ARTIGIANELLI**

08.30 - 09.30 **SESSION X - VIRAL EXPRESSION AND PATHOGENESIS (3)**

chairs

Graham P. Taylor
Imperial College Healthcare, London, UK

Rüdiger Hehlmann
Universität Heidelberg, Germany

presentations

Madeleine Duc Dodon
INSERM U758 Virologie Humaine, Ecole Normale Supérieure de Lyon, France
Human T cell development in the thymus of HTLV-1 infected HIS (Human Immune System) mice

Gerold Feuer
SUNY Upstate Medical University, Buffalo, USA
Evaluating HTLV leukemogenesis and accessory gene functions in humanized SCID mice

Renaud Mahieux
Ecole Normale Supérieure de Lyon, France
Highly active antiretroviral treatment against STLV-1 infection combining reverse transcriptase and HDAC inhibitors

Olivier Hermine
Hôpital Necker-Enfants Malades, Paris, France
Treatment of HTLV-1- related lymphoproliferation

09.30 - 10.30 **SESSION XI - VIRAL EXPRESSION AND PATHOGENESIS (4)**

chairs

Steven Jacobson
National Institute of Neurological Disorders and Stroke, Bethesda, USA

Beatrice Macchi
University of Rome Tor Vergata, Italy

presentations

Yoshihisa Yamano
St. Marianna University School of Medicine, Kawasaki, Japan
HTLV-1 infected CD4+CD25+CCR4+ T-cells disregulate balance of inflammation and tolerance in HTLV-1 associated neuroinflammatory disease

Steven Jacobson
National Institute of Neurological Disorders and Stroke, Bethesda, USA)
Inhibition of immune activation as a therapeutic strategy in HTLV-I associated myelopathy / tropical spastic paraparesis: From bench to bedside

Becca Asquith
Imperial College, London, UK
What determines CD8+ T cell efficiency?

Edward L. Murphy
University of California - San Francisco, USA
Increased all-cause and cancer mortality in HTLV-II infection

WORKSHOP: HIV PATHOGENESIS

10.30 - 11.00 **SPECIAL LECTURE**

chair — Mauro Bendinelli
University of Pisa, Italy

lecture — Max Essex
Harvard University, Boston, USA
The Mochudi Project: Prevention of HIV infection in the absence of a vaccine

11.00 - 11.15 **BREAK**

11.15 - 12.15 **SESSION I**

chairs — Mauro Pistello
University of Pisa, Italy

Nancy Miller
Division of AIDS, NIH, Bethesda, USA

presentations — Mario Stevenson
University of Massachusetts Medical School, Boston, USA
Cellular antagonists of HIV replication

Anna Aldovini
Harvard Medical School, Boston, USA
HIV-mediated modulation of cell death pathways in primary CD4+ T cells

Barbara Felber
National Cancer Institute at Frederick, USA
Posttranscriptional regulation is essential for retrovirus and retroelement expression

Anna Cereseto
Università di Trento, Italy
A cellular factor that binds the HIV-1 integrase

12.15 - 13.30 **SESSION II**

chairs — Arnaldo Caruso
University of Brescia, Italy

Luigi Chieco-Bianchi
University of Padova, Italy

presentations — Andrea Cerutti
Cornell University, New York, USA
Nef-trafficking intercellular highways for HIV evasion of antibody production

Olivier Schwartz
Institut Pasteur, Paris, France
Immunological & virological aspects of HIV cell-to-cell transmission

Anita De Rossi
University of Padova, Italy
What children can teach us about HIV

Volker Erfle
National Research Center of Environment & Health, Munich, Germany
Does HIV-1 harbour an oncogene?: The example of HIV nef and astrocytes

Guido Poli
San Raffaele Scientific Institute, Milan, Italy
Transcriptional control of HIV latency and replication in monocytic cells

13.30 - 14.30 **LUNCH**

14.30 - 15.30 **SESSION III**

chairs

Paola Zanovello
University of Padova, Italy

Gene M. Shearer
National Cancer Institute, Bethesda, USA

presentations

Mario Clerici
University of Milan, Italy
Immune correlates of protection to HIV infection

Alan Landay
Rush University Medical Center, Chicago, USA
Immune activation inflammation and aging in HIV pathogenesis

Guido Silvestri
University of Pennsylvania, Philadelphia, USA
AIDS pathogenesis: a matter of target cell restriction?

Leonid Margolis
Eunice Kennedy Shriver National Institute of Child Health and Human Development, Bethesda, USA
HIV interactions with other viruses in human tissues

WORKSHOP: MOLECULAR GENETICS AND THERAPY OF CANCER

15.30 - 16.45 **SESSION I**

chairs

Eva Klein
Karolinska Institute, Stockholm, Sweden

Giancarlo Vecchio
Università 'Federico II', Naples, Italy

presentations

Riccardo Dalla-Favera
Columbia University, New York, USA
The genome of B cell lymphoma

Pier Giuseppe Pelicci
IFOM-IEO Campus, Milan, Italy
Regulation of self renewal in cancer stem cells

Stefano Piccolo
University of Padova, Italy
MicroRNAs and metastasis

16.45 - 17.00 **BREAK**

17.00 - 18.40 **SESSION II**

chairs

Riccardo Dalla-Favera
Columbia University, New York, USA

Corrado Tarella
Ospedale S. Giovanni Battista, University of Turin, Italy

presentations

Vincenzo Bronte
Istituto Oncologico Veneto-IRCCS, Padova, Italy
Tumor-induced tolerance and immune suppression depend on C/EBPb transcription factor

Stefano Indraccolo
Istituto Oncologico Veneto-IRCCS, Padova, Italy
The Notch pathway in the regulation of tumor dormancy

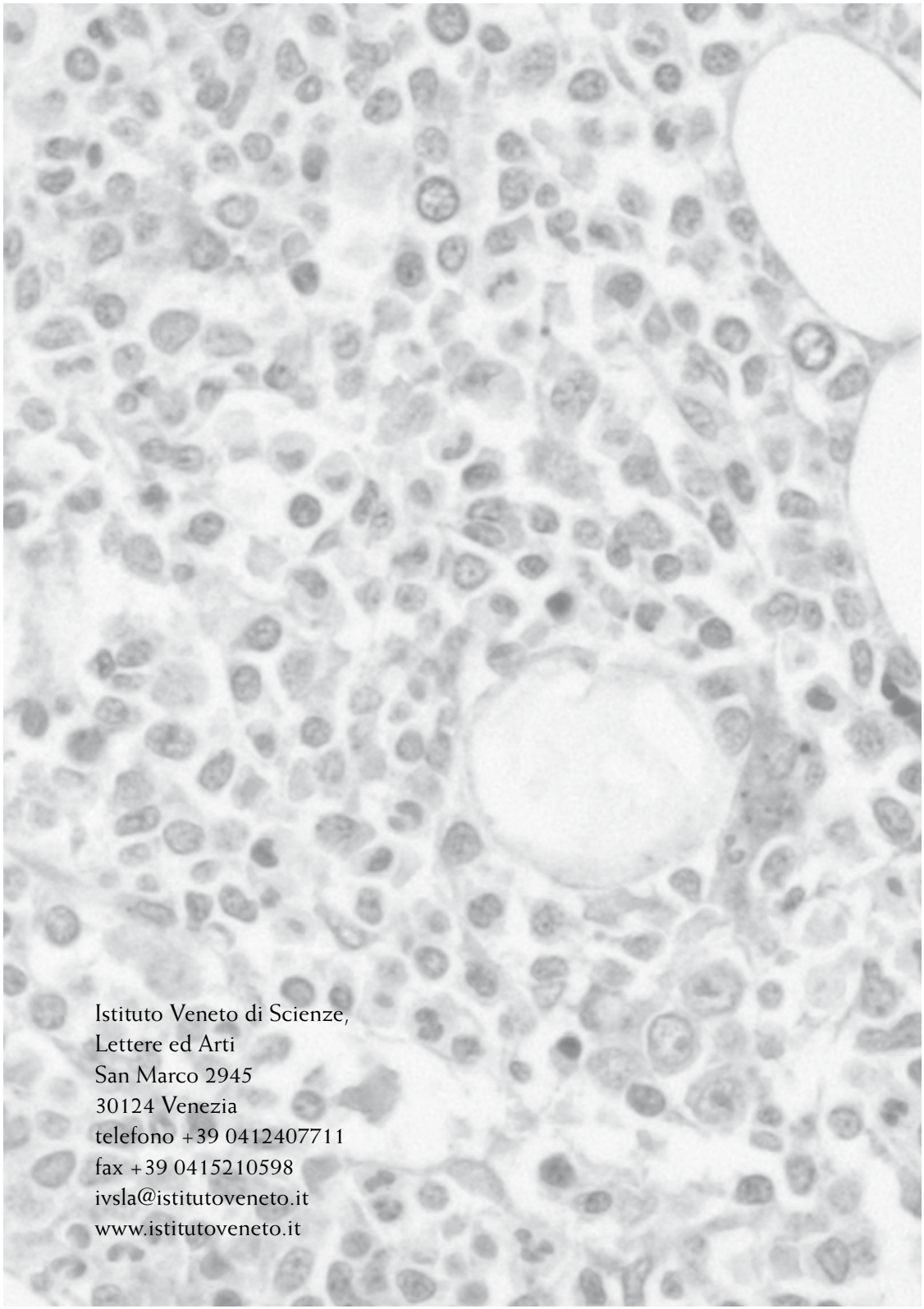
George Klein
Karolinska Institute, Stockholm, Sweden
Awakening of dormant tumor cells by inflammation

Marco A. Pierotti
Istituto Nazionale di Tumori, Milan, Italy
Target mutation: The dark side of the targeted therapies

18.40 - 18.50 **CLOSING REMARKS**
Vincenzo Ciminale
University of Padova, Italy

Adjourn

Dinner on your own



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