



Program

Saturday, June 4, 2011

19:00 - 21:00 **Welcome reception**

Welcome : Luc Willems & Annemie Vandamme

Opening Lecture

Chair: Genoveffa Franchini

“HTLV-1, the first human retrovirus”
Robert Gallo

Sunday, June 5, 2011

08:30 - 17:30 **Oral presentations**

Clinical Research

Chairs: Graham Taylor and Toshiki Watanabe

8:30 – 8:40 State of the art and summary of session: ***Fabiola Martin*”A Leukemia and Lymphoma Research presentation”**

8:45 – 9:00 Can we cure HTLV-I associated Adult T cell Leukemia Lymphoma?
Ali Bazarbachi

9:05 – 9:15 Promising Results of an Anti-CCR4 Antibody, KW-0761, for Relapsed Adult T-Cell Leukemia
Atae Utsunomiya

9:20 – 9:30 Targeting HTLV-I Latency in Adult T-cell Leukemia/lymphoma
Juan Carlos Ramos

9:35 – 9:45 A neutralizing monoclonal antibody (mAb A24) directed against the transferrin receptor induces apoptosis of tumor T lymphocytes from ATL patients
Olivier Hermine

9:50 – 10:00 Cumulative kinetics of epigenetic abnormalities during initiation and progression of Adult T cell Leukemia/Lymphoma (ATLL)
Takashi Oka

10:05- 10:25 **Coffee break**

Chairs: Abelardo Araujo and Shuji Izumo

10:30 – 10:40 Clinical subtype of HAM/TSP based on clinical course and laboratory findings
Yoshihisa Yamano

10:45 – 10:55 Recent epidemiologic trends of HAM/TSP in Japan
Shuji Izumo

11:00 – 11:10 Circularised 1 and 2 LTR DNA circles are present in freshly and chronically infected cell lines and patient PBMCs, indicating ongoing reverse transcriptase usage
James Fox

11:15 – 11:25 Infection with Human T Lymphotropic Virus 1 is associated with bronchiectasis among Indigenous Australians
Lloyd Einsiedel

11:30 – 11:40 Integrase inhibitors effective against human T-cell leukemia virus type 1
Lee Ratner

11:45 – 12:55 **Lunch**

Animal Models

Chair: Hisatoshi Shida and Mirdad Kazanji

13:00 – 13:10 State of the art and summary of session: *Michael Lairmore*

13:15 – 13:30 ATL like overgrowth and clonal expansion of HTLV 1 infected CD25+ CD4+ T lymphocyte in humanized NOG mouse model
Jun ichi Fujisawa

13:35 – 13:45 HTLV 1 propels thymic human T cell development in “human immune system” Rag2 / IL 2R Yc / Mice
Julien Villaudy

13:50 – 14:00	Activation of HTLV 1 expression in chronically infected CD4+ T cells: mechanisms and implications for pathogenesis Arnold Rabson
14:05 – 14:15	Comparative proteomic analysis of cancer stem cells in a Taxtransgenic (TaxTg) mouse model of adult Tcell leukemia/lymphoma Tadaki Suzuki
14:20 – 14:30	Entry Inhibition of Human Retroviruses in Rat Cells Hisatoshi Shida
14:35 – 14:45	High throughput sequencing reveals novel microRNAs in the Bovine Leukemia Virus (BLV) induced ovine model of leukemia Anne Van den Broeke
14:50 – 15:10	Coffee break

Virology

Chairs: Claudine Pique and Françoise Bex

15:15 - 15:30	State of the art and summary of session: Vincenzo Ciminale
15:35 – 15:45	New insights into HTLV entry Claudine Pique
15:50 – 16:00	Mother to child transmission of HTLV 1: in vitro study of HTLV 1 passage across a tight human epithelial barrier Pierre-Emmanuel Ceccaldi
16:05 – 16:15	Analysis of the HTLV 1 Gag Assembly Pathway by Biophysical Fluorescence Keir Fogarty
16:20 – 16:30	Human T lymphotropic Virus Type 1 p30 Interacts with REGγ and ATM (Ataxia Telangiectasia Mutated) to Promote Cell Survival Michael Lairmore
16:35 – 16:45	Comparative structural analysis of retroviral fusion proteins identifies regions that modulate membrane fusion: a potential retroviral achilles heal? David Brighty
16:50 – 17:00	APH-2 and Tax expression are correlated with a HTLV-2 proviral load but not with lymphocytosis Renaud Mahieux
17:05 – 17:15	Cellular tropism exhibited by human T lymphotropic virus type 1 (HTLV 1) and type 2 (HTLV 2) Patrick Green
17:20 – 17:30	Tax mediated re routing of the HTLV 1 p13 protein to nuclear speckles Cynthia Masison
17:35 - 19:30	Poster session 1 with Belgian beer & cheese

Clinical Research

Animal Models

Virology

Immunology

Monday, June 6, 2011

08:30 - 17:10 **Oral presentations**

Molecular and cellular biology I

Chairs: John Semmes and KT Jeang

8:30 – 8:40	State of the art and summary of session: Renaud Mahieux
8:45 – 8:55	HTLV 1 Tax induced NF κB activation is negatively regulated by Ubiquitin specific peptidase 20 (USP20) Junichiro Yasunaga
9:00 – 9:10	STAMBPL1 is a deubiquitinating enzyme that regulates HTLV I Tax subcellular localization and NF κB activation Alfonso Lavorgna
9:15 – 9:00	The SUMO targeted ubiquitin ligase RNF4 regulates localization and function of the HTLV 1 oncoprotein Tax Oliver Semmes
9:30 – 9:40	Genetic and epigenetic loss of miR 31 activates NIK dependent NF κB pathway in Adult T cell Leukemia Makoto Yamagishi
9:45 – 9:55	JunD/HBZ enhances HTLV-1 antisense transcription Jean Marie Peloponese



10:00 – 10:10 HBZ inhibits the HAT activity of the cellular coactivators p300 and CBP
Isabelle Lemasson

10:15- 10:35 **Coffee break**

Molecular and cellular biology II

Chairs Patrick Green and Genoveffa Franchini

10:40 – 10:50 NF κ B hyper activation by HTLV 1 Tax induces cellular senescence, but can be alleviated by the viral anti sense protein HBZ

Chou Zen Giam

10:55 – 11:05 Interaction of HTLV 1 Tax with minichromosome maintenance proteins accelerates the replication timing program

Mathieu Boxus

11:10 – 11:20 Coordination of the canonical and noncanonical IKK/NF κ B signaling pathways in HTLV I Tax mediated tumorigenesis

Gutian Xiao

11:25 – 11:35 HTLV 1 modulates alternative splicing in CD4+ T cells in vivo

Franck Mortreux

11:40 – 11:50 Human T Lymphotropic Virus Type 1 transcription and chromatin remodeling complexes

Fatah Kashanchi

11:55 – 12:05 HTLV1 Tax1 represses the proapoptotic protein Bim, which is crucial for Tcell transformation

Masaya Higuchi

12:10 - 13:25 **Lunch**

Endogenous retroviruses, Foamy viruses and XMRV

Chairs: William Switzer and Robert Silverman

13:30 – 13:40: State of the art and summary of session: **William Switzer**

13:40 – 14:00 Human infection or lab artifact: will the real XMRV please stand up?

Robert Silverman

14:05 – 14:15 Multi-laboratory evaluations of XMRV nucleic acid detection assays

Graham Simmons

14:20 – 14:30 Prevalence of XMRV in Blood donors, HTLV and HIV Cohorts Abbott

Xiaoxing Qiu

14:35 – 14:45 Development of XMRV Producing B Cell Lines from Lymphomas from Patients with Chronic Fatigue Syndrome

Francis Ruscetti

14:50 – 15:00 Regulation of Foamy Virus Protease Activity by Viral RNA

Birgitta Wöhrl

15:05 – 15:15 Preferential expression of human endogenous retrovirus K (HERV K/HML 2) type 1 in tumor cells

Camila Romano

15:20 – 15:30 Independent evolution of intracellular transposons from exogenous IAP related retroviruses in a broad range of mammalian species

Gkikas Magiorkinis

15:35 – 15:55 **Coffee break**

Epidemiology

Chairs: Edward Murphy and Brenda Birnann

16:00 – 16:15 State of the art and summary of session: **Edward Murphy**

16:20 – 16:30 Altered host immunity, human T lymphotropic virus type I replication, and risk of adult T cell leukemia/lymphoma: a prospective analysis from the ATL Cohort Consortium

Brenda Birnann

16:35 – 16:45 HTLV-1/2 prevalence in Brazilian blood donors: regional and demographic variation

Anna Barbara Proietti

16:50 – 17:00 Frequent acquisition of simian foamy viruses from gorillas, chimpanzees and monkeys through severe bites in central African hunters with no evidence for intra familial dissemination

Edouard Betsem

17:05 – 17:15 Simian Foamy Virus (SFV) infection from multiple monkey species in women from the Democratic Republic of Congo

William Switzer

17:30 – 19:30 **Poster session 2** with Belgian beer & cheese

Molecular and cellular biology

Endogenous retroviruses, Foamy viruses and XMRV

Epidemiology

Diagnostics

Tuesday, June 7, 2011

Day out

- 8:00 **Departure**
- 10:00 **Visit of Corroy-le château**
- 12:00 **Lunch in Gembloux**
- 14:00-15:30 **Round tables**
1. The whole spectrum of HTLV-1-associated pathologies: what are we missing?
Chair **Johan Van Weyenbergh**
Discussants **Abelardo Araujo, Edward Murphy, Bernardo Galvão Castro, Anna Barbara Proietti, Edgar Carvalho, Yoshihisa Yamano and Eduardo Gotuzzo**
- Presentations
1. Neurological disability in HTLV-1 infected individuals according to the initial clinical presentation: cohort study
Davi Costa
2. Major depression and generalized anxiety disorder among HTLV-I/II infected former blood donors
Edward Murphy
3. Quality of life (QOL) and depression in HTLV-1 carriers
Ana Verena Galvão-Phileto
4. Clinical and subclinical findings in a cohort of Infective Dermatitis patients and their siblings
Achiléa Bittencourt
2. From endogenous to xenotropic retroviruses: how retroviruses jump species
Chair **William Switzer**
Discussants **Mirdad Kazanji, Maureen Hanson, Judy Mikovits and Robert Silverman**
- Presentations
1. High level of inter-species transmission of simian foamy virus from non-human primates to humans in Gabon, central Africa
Mirdad Kazanji
2. HTLV-2 in Central Africa: HTLV-2 subtype B strains similar to those found in Amerindian tribes are endemic in Bakola Pygmies from south Cameroon but not in surrounding Bantus and Baka
Philippe Maucière
3. Serologic and PCR Testing of Persons with Chronic Fatigue Syndrome in the United States Shows No Association with Xenotropic or Polytopic Murine Leukemia Virus-Related Virus
William Switzer
4. Detection of MLV-like Gag Sequences in Blood Samples from a New York State CFS Cohort
Maureen Hanson
5. XMRV replicates preferentially in mucosal sites in vivo: Relevance to XMRV transmission?
Francois Villinger
3. OMICS: biomarker discovery and new therapeutic targets
Chair **Fatah Kashanchi**
Discussants **Charles Bangham, John Semmes, Fatah Kashanchi, and Anne van den Broeke**
- Presentations
1. Three plasma biomarkers of HTLV-1-associated myelopathy/tropical spastic paraparesis
Paul Kirk
2. Proteomic profiling of HTLV-1 infected T-cells for the Identification of potential biomarkers and therapeutic targets for HTLV-1 associated myelopathy/ tropical spastic paraparesis and adult T-cell leukemia
Koji Ueda
3. CD3e expression in HTLV-1-infected individuals is associated with proviral load and Tax expression
Mariana Pinto
4. MicroRNA expression in HTLV-1 infection and pathogenesis
Donna D'Agostino
5. Cloned HTLV-1+CD4+, but not CD8+, T-cells display an oncogenic miRNome
Franck Mortreux



4. Molecular and cellular virology: Tax vs. HBZ induced cell proliferation, clash of the titans?
Chair **Françoise Bex**
Discussants **Umberto Bertazzoni, Genoveffa Franchini and Masao Matsuoka**
Presentations
1. Physical and functional interaction between the HTLV-1 Tax oncoprotein and the cellular LIM domain protein FHL3
Aine McCabe
2. HBZ impedes the Menin function and up-regulates the transcription of the hTERT gene in leukemic cells
Gosia Borowiak
3. Kinetics and intracellular compartmentalization of HTLV1 gene expression
Francesca Rende
4. HTLV-1 bZIP factor enhances TGF-beta signaling through p300 coactivator
Tiejun Zhao
- 16:00 – 16:30 **Poster Award presentations**
- 17:00 **Return to Leuven**
- 19:00 **Conference Banquet** (Faculty Club, Begijnhof, Leuven)

Wednesday, June 8, 2011

08:30 – 12:30 **Oral presentations**

Immunology

Chair **Mari Kannagi and Steve Jacobson**

- 8:30 – 8:40 State of the art and summary of session: **Charles Bangham**
- 8:45 – 8:55 The roles of innate and acquired immune responses on HTLV-I infection
Mari Kannagi
- 9:10 – 9:20 HTLV-1 HBZ protein inhibits IRF3-mediated innate immune responses
Renée Douville
- 9:25 – 9:35 HTLV-1 bZIP factor-mediated dysfunction of regulatory T cells in vivo
Paola Miyazato
- 9:40 – 9:50 Opposite effect of Valproate on Tax and HBZ expression in T-lymphocytes from HTLV-1 infected patients
Raymond Cesaire
- 9:55 – 10:05 Continuous long term growth of plasmacytoid dendritic cells following in vitro infection with HTLV 1
Kathryn Jones
- 10:10- 10:30 **Coffee break**
- Chairs: Charles Bangham and Guido Vanham**
- 10:35 – 10:45 HTLV-1 persistence in vivo: clonality, dynamics and immune response
Charles Bangham
- 11:50 – 11:00 IL-15 Deficiency Promotes Tumor Growth in Tax Transgenic Mice
Lee Ratner
- 11:05 – 11:15 HTLV 1 Tax Specific CD8+ T cells express low levels of Tim 3 in HTLV 1 infection: implications for progression to neurological complications
Fabio Leal
- 11:20 – 11:30 Reduced Tim-3 expression on HTLV-I Tax-specific cytotoxic T lymphocytes in HTLV-1 infection
Ryuchi Kubota
- 11:35 – 11:45 Ascorbic acid has superior antiviral, antiproliferative and immunomodulatory effects over IFN-alpha in HAM/TSP patients ex vivo
Britta Moens
- 11:50 – 12:00 An interferon signature is associated with HAM/TSP but not viral containment in HTLV 1 infection
Sonja Tattermusch
- 12:00 **Closing Ceremony**