8th INTERNATIONAL MEETING ON HIV INFECTION of the Central Nervous System

NeuroHIV

ITALY · October, 17th-19th 2019
HOTEL NH COLLECTION Vittorio Veneto
Corso Italia 1 - Roma

www.neurohiv.com
PATRONAGE REQUESTED

MINISTERO DELLA SALUTE

REGIONE LAZIO

Istituto Superiore di Sanità
In the last few years, early initiation of antiretroviral therapy and the use of new drug combinations, particularly integrase inhibitors, has led to improvement in treatment efficacy, safety and adherence. Despite systemic control of the infection and the more recent targeting of the major viral reservoir in long-lived CD4 T cells, central nervous system (CNS) infection may be an important and relatively neglected aspect of HIV infection. Chronic infection of CNS cells may provide an additional reservoir requiring modified eradication strategies and may be an important factor in ongoing CNS immune activation and CNS dysfunction. Additionally, the CNS toxicity of ARV drugs and systemic eradication strategies are emerging as potentially important considerations as these new frontiers are entered. Thus, the CNS role as both a treatment target and site of toxicity bears careful scrutiny in the coming years. The goal of this meeting is to update, discuss and review the concepts of HIV brain infection in the current era, address unresolved clinical issues and discuss control strategies for the immediate and longer-term future.
SCIENTIFIC COMMITTEE

ANDREA ANTINORI
Rome, Italy

PAOLA CINQUE
Milan, Italy

STEVEN DEEKS
San Francisco, USA

MAGNUS GISSLEN
Goteborg, Sweden

GIUSEPPE IPPOLITO
Rome, Italy

ADRIANO LAZZARIN
Milan, Italy

CARLO FEDERICO Perno
Milan, Italy

RICHARD W. PRICE
San Francisco, USA

RONALD SWANSTROM
Chapel Hill, USA
DAY 1 - 17 OCTOBER 2019
SALA PUCCINI - VERDI

08.00am-08.30am Registration

08.30am-09.00am Opening Remarks
A. Antinori (Rome, Italy), P. Cinque (Milan, Italy), C.F. Perno (Milan, Italy)

SESSION I THE CNS HIV-1 RESERVOIR IN CONTROL AND CURE STRATEGIES
Co-Chairs: S.G. Deeks (S. Francisco, USA), P. Cinque (Milan, Italy)

09.00am-09.30am Overview on the CNS HIV reservoir
C.F. Perno (Milan, Italy)

09.30am-10.00am Virological character on the CNS HIV-1 reservoir
R. Swanstrom (Chapel Hill, USA)

10.00am-10.30am The impact of early treatment on CNS reservoir and cure/control strategies
S. Spudich (Yale, USA)

10.30am-11.00am Coffee Break
Co-Chairs: A. D’Arminio Monforte (Milan, Italy), R.W. Price (S. Francisco, USA)

11.00am-11.30am Imaging the HIV reservoir
T. Henrich (S. Francisco, USA)

11.30am-12.00pm The mouse model of virus reservoir
V.J. Garcia (Chapel Hill, USA)
DAY 1 - 17 OCTOBER 2019

12.00pm-12.30pm  Non-human primate model of virus reservoir  
J.E. Clements (Baltimore, USA)

12.30pm-02.00pm  Lunch and Poster viewing

Co-Chairs: A. Antinori (Rome, Italy), T. Henrich (S. Francisco, USA)

02.00pm-02.30pm  Introduction on HIV Control and Cure strategies  
S.G. Deeks (S. Francisco, USA)

02.30pm-03.00pm  Hematopoietic stem cell-based HIV Cure Strategies  
H.P. Kiem (Seattle, USA)

03.00pm-03.30pm  Broad Neutralizing anti-HIV antibodies and the CNS  
L. Gama (Baltimore, USA)

Co-Chairs: L. Gama (Baltimore, USA), G. Poli (Milan, Italy)

03.30pm-04.00pm  Analytical treatment interruption and CNS vulnerability  
R.W. Price (S. Francisco, USA)

04.00pm-05.15pm  Oral presentations

04.00pm-04.15pm  OC 01 - EVOLUTION OF IMMUNE ACTIVATION BIO-MARKERS IN CSF IN FIEBIG I-V ACUTE HIV INFECTION  
04.15pm-04.30pm  **OC 02** - NEUROINFLAMMATION DURING ACUTE HIV INFECTION AND THE EFFECT ON COGNITIVE OUTCOMES IN PERU  

04.30pm-04.45pm  **OC 03** - HUMAN MICROGLIAL CELLS EXPRESS CD30 IN RESPONSE TO HIV-1 INFECTION  

04.45pm-05.00pm  **OC 04** - THE GUT MICROBIOME REGULATES IMMUNE CELL HOMEOSTASIS IN THE CNS  
A. Wahl, B. Liao, C. Richardson, W. Yao, J.V. Garcia

05.00pm-05.15pm  **OC 05** - HIV-1 REPLICATION IN THE CNS OF UNTREATED PEOPLE IS ASSOCIATED WITH MARKERS OF DAMAGE AND INFLAMMATION  

Closing of the works for the day

08.30pm  *Social Dinner*
DAY 2 - 18 OCTOBER 2019
SALA PUCCINI - VERDI

NIMH Session ADAPTING IMMUNOTHERAPY FOR TARGETING CNS RESERVOIRS: POTENTIAL BENEFITS AND RISKS

Co-Chairs: J. Clements (Baltimore, USA), S. Joseph (Chapel Hill, USA)

08.30am-08.40am Welcome Remarks
D. Rausch (Bethesda, USA)

Meeting Goals
J. Joseph (Bethesda, USA)

08.40am-09.00am PD1 Inhibition to target CNS reservoir of HIV infection
A. Nath (Bethesda, USA)

09.00am-09.20am PD-L1 and the CTL response against glia in murine models
J. Lokensgard (Minneapolis, MN)

09.20am-09.40am Engineering Broadly Neutralizing Antibodies to target CNS Reservoir in non-human primates
S. Tan (Cambridge, USA)

09.40am-10.00am Chimeric antigen receptor T-cell approaches to HIV cure
H.P. Kiem (Seattle, USA)

10.00am-10.20am Engineering Long-Term specific HIV-specific immunity through Chimeric Antigen Receptors and Stem Cells. Opportunities to Target the CNS Reservoirs
S. Kitchen (Los Angeles, USA)

10.20am-10.50am Coffee Break
Targeting HIV infected microglia cells by NK cells
J. Karn (Cleveland, USA)

Targeting Vectored ImmunoTherapy to the Brain Sanctuary to Enable Sustained Virologic Suppression
A. Balazs (Cambridge, USA)

CNS evaluations of NHP receiving CD4-MBL-CAR/CXCR5 T cell therapy: Monitoring Neuroinflammation and CNS Penetration
L. Ndhlovu (Honolulu, USA)

Clinical and Biological Correlates of Neurotoxicity Associated with CAR-T cell therapy. Lessons from Oncology
B. Santomasso (New York, USA)

Opportunities and Challenges in Adapting Immunotherapy for Targeting HIV CNS Reservoirs
Panel Discussion
Co-Chairs: A. Nath (Bethesda, USA), S. Spudich (New Haven, USA)

Lunch at the restaurant hall

FACULTY
ALEJANDRO BALAZS (Cambridge, USA)
JONATHAN KARN (Cleveland, USA)
HANS-PETER KIEM (Seattle, USA)
SCOTT KITCHEN (Los Angeles, USA)
JEYMOHAN JOSEPH (Bethesda, USA)
JAMES LOKENSgard (Minneapolis, USA)
AVINDRA NATH (Bethesda, USA)
LISHOMWA NDHLOVU (Honolulu, USA)
DIANNE RAUSCH (Bethesda, USA)
BIANCA SANTOMASSO (New York, USA)
SABRINA TAN (Cambridge, USA)
Session II  CLINICAL ASPECTS (NON-HIV CNS DISEASE, BIOMARKERS)

Co-Chairs: A. Antinori (Rome, Italy), A. Lazzarin (Milan, Italy)

02.30pm-03.00pm  Overview of current global CNS Morbidity including Opportunistic Infections
A. Antinori (Rome, Italy)

03.00pm-03.30pm  Host-directed tretaments for Progressive Multifocal Leukoencephalopathy
G. Martin-Blondel (Toulouse, France)

03.30pm-04.00pm  Oral Presentations

03.30pm-03.45pm  OC 06 - CORRELATION BETWEEN CEREBROSPINAL FLUID (CSF) AND PLASMA CONCENTRATIONS OF NEUROFILAMENT LIGHT PROTEIN (NFL) IN TREATED HIV INFECTION IN THE COMORBIDITY IN RELATION TO AIDS (COBRA) STUDY

03.45pm-04.00pm  OC 07 - A RANDOMIZED TRIAL OF ADJUNCTIVE TELMISARTAN TO REDUCE CNS INFLAMMATION IN ACUTE HIV
Co-Chairs: G. Di Perri (Turin, Italy), A. Winston (London, UK)

04.00pm-04.30pm  White matter disease and HIV: the radiologist’s view
S. Gerevini (Bergamo, Italy)

04.30pm-05.00pm  Inflammation and the CNS
P.W. Hunt (S. Francisco, USA)

05.00pm-05.30pm  Neural and inflammatory biomarkers: recent developments for CSF and blood
N. Mattsson (Lund, Sweden)

05.30pm-06.00pm  Oral Presentations

05.30pm-05.45pm  OC 08 - COGNITIVE FUNCTION AND DOMAINS IN PEOPLE WITH HIV AND CONTROLS: CORRELATIONS BETWEEN AND WITHIN TWO DIFFERENT BATTERIES
D. De Francesco, J. Underwood, K. Kunisaki, C.A. Sabin and A. Winston

05.45pm-06.00pm  OC 09 - THE PRESENCE OF RESISTANCE-ASSOCIATED MUTATIONS IN HIV REVERSE TRANSCRIPTASE GENE IS ASSOCIATED WITH CEREBROSPINAL FLUID HIV-1 ESCAPE

Closing of the works for the day
### Session III  CLINICAL ASPECTS (HIV TREATMENT)

**Co-Chairs:** M. Gisslen (Goteborg, Sweden), A. Lazzarin (Milan, Italy)

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>09.00am-09.30am</td>
<td>Treatment efficacy in CNS HIV infection</td>
<td>A. Winston (London, UK)</td>
<td></td>
</tr>
<tr>
<td>09.30am-10.00am</td>
<td>Pharmacokinetics of newer antiretroviral drugs in the CNS</td>
<td>A. Calcagno (Turin, Italy)</td>
<td></td>
</tr>
<tr>
<td>10.00am-10.30am</td>
<td>CNS drug toxicities and their impact on treatment use</td>
<td>E. Martinez (Barcelona, Spain)</td>
<td></td>
</tr>
<tr>
<td>10.30am-11.00am</td>
<td>Coffee Break</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11.00am-11.30am</td>
<td>Asymptomatic and secondary CSF escape</td>
<td>M. Gisslen (Goteborg, Sweden)</td>
<td></td>
</tr>
<tr>
<td>11.30am-12.00pm</td>
<td>Neurosymptomatic CSF escape</td>
<td>P. Cinque (Milan, Italy)</td>
<td></td>
</tr>
<tr>
<td>12.00pm-12.30pm</td>
<td>Virological aspects of CSF escape</td>
<td>S.B. Joseph (Chapel Hill, USA)</td>
<td></td>
</tr>
<tr>
<td>12.30pm-01.00pm</td>
<td>Discussion</td>
<td></td>
<td></td>
</tr>
<tr>
<td>01.00pm-01.15pm</td>
<td>Final Remarks</td>
<td>A. Antinori (Rome, Italy), P. Cinque (Milan, Italy), C.F. Perno (Milan, Italy)</td>
<td></td>
</tr>
<tr>
<td>01.15pm</td>
<td>Delivery and completion of CME questionnaire</td>
<td></td>
<td></td>
</tr>
<tr>
<td>01.30pm</td>
<td><strong>Lunch</strong> at the restaurant hall</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
FACULTY

ANDREA ANTINORI (Rome, Italy)
ANDREA CALCAGNO (Turin, Italy)
PAOLA CINQUE (Milan, Italy)
JANICE E. CLEMENTS (Baltimore, USA)
ANTONELLA D’ARMINIO MONFORTE (Milan, Italy)
STEVEN G. DEEKS (S. Francisco, USA)
GIOVANNI DI PERRI (Turin, Italy)
LUCIO GAMA (Baltimore, USA)
VICTOR J. GARCIA (Chapel Hill, USA)
SIMONETTA GEREVINI (Bergamo, Italy)
MAGNUS GISSLEN (Goteborg, Sweden)
TIMOTHY J. HENRICH (S. Francisco, USA)
PETER W. HUNT (S. Francisco, USA)
HANS-PETER KIEM (Seattle, USA)
SARAH B. JOSEPH (Chapel Hill, USA)
ADRIANO LAZZARIN (Milan, Italy)
GUILLAUME MARTIN-BLONDEL (Toulouse, France)
ESTEBAN MARTINEZ (Barcelona, Spain)
CLAUDIO MARIA MASTROIANNI (Rome, Italy)
NIKLAS MATTSSON (Lund, Sweden)
CARLO FEDERICO PERNO (Milan, Italy)
GUIDO POLI (Milan, Italy)
RICHARD W. PRICE (S. Francisco, USA)
SERENA SPUDICH (New Haven, USA)
RONALD SWANSTROM (Chapel Hill, USA)
ALAN WINSTON (London, UK)
GENERAL INFORMATION

DEADLINE FOR ABSTRACT SUBMISSION
September 30th, 2019 - On-line submission.
October 7th, 2019 - Notification of acceptance of abstracts.

ORAL COMMUNICATIONS AND POSTERS
The scientific programme of the conference will include Oral Communications and Posters' Sessions and Discussions of Posters. The Abstracts and the type of presentations will be selected by the Scientific Committee. Abstracts must contain original data, not already presented on other occasions. Abstracts must be in English and will be published in the Abstract Book. Abstracts must be submitted exclusively using the on-line form, following the instructions available at www.neurohiv.com.

The Organizing Secretariat will inform the first author on the abstract form, via e-mail, of the acceptance of the work, the format (oral communication or poster) and the date and time of presentation. Twelve minutes will be allocated for the presentation of each communication, after which there will be a three minutes of discussion.

Size of Posters: 70 cm wide x 100 cm high.
The mounting material is available at the display area.
The presence of the Author is required during the poster presentation.

HOW TO SUBMIT THE ABSTRACT
The system will automatically send the notification of successful submission. If you do not receive the notification, please contact the Organizing Secretariat at info@nadirex.com.

The person that submit the Abstract, must indicate the Presenting Author:
• Submitters and Presenting Author are responsible for the accuracy of all data submitted including correct spelling of names and institutions
• The Submitters must indicate the preferred presentation form (Oral Communication or Poster). The choice is not binding.
• The Presenting Author will receive all the official communications from the Organizing Secretariat
• The Presenting Author must be registrated to the Congress.

Any change must be immediately communicated to the Organizing Secretariat at info@nadirex.com.

In case of acceptance, the Abstract will be published and the Abstract Book will be distributed at the Congress.
GENERAL INFORMATION

CONGRESS VENUE
HOTEL NH COLLECTION VITTORIO VENETO
Corso Italia 1 - Roma - Italy
Tel. +39 06/84951

Organizing Secretariat
Nadirex International Srl
Via Riviera, 39 - 27100 Pavia
Tel. +39.0382.525714/35
Fax +39.0382.525736
info@nadirex.com
www.nadirex.com

ECM - Nr. 265-268376 - Crediti formativi Nr. 15
Evento accreditato presso il Ministero della Salute per le seguenti figure professionali:
Medico Chirurgo (Discipline: Malattie Infettive, Microbiologia e Virologia, Neurologia, Psichiatria)
Psicologo (Discipline: Psicoterapia, Psicologia).
N. 100 partecipanti

Registration fee
Early Registration closes 15th September
Euro 366,00 (€ 300,00 + 22% VAT)
Late Registration from 16th September
Euro 427,00 (€ 350,00 + 22% VAT)
Congress registration: www.neurohiv.com

THE REGISTRATION FEE INCLUDES:
- Participation in the scientific work
- Congress kit
- Certificate of attendance
- CME certificate
- Abstract Book
- Coffee breaks and working breakfasts for the whole period
- 17th October Dinner and 18th October Dinner
REGISTRATION FORM

8TH INTERNATIONAL MEETING ON HIV INFECTION OF THE CENTRAL NERVOUS SYSTEM

NeuroHIV 2019
OCTOBER, 17th-19th 2019
ROMA, ITALY

ALL THE FOLLOWING DATA ARE REQUESTED

Name ................................................................................................ Surname ..........................................................................

Profession ....................................................................................... Discipline ..........................................................................

Hospital ............................................................................................ Address ..............................................................................................

Postal Code .......................   Town/City ........................................................................................... Province ...................................

Tel. ....................................................................................................... Mobile Tel. ..........................................................................................

Fax ...................................................................................................... E-mail .....................................................................................

INVOICE INFORMATION (MANDATORY) - Invoice headed to:

Name/Last name or company name ........................................................................................................................................

Address ...........................................................................................................................................................................................................

Postal Code .......................   Town/City ........................................................................................... Province ...................................

VAT Number ................................................................................. Fiscal Code ......................................................................................

Birth date ........................................................................................ Birth place ...........................................................................................

REGISTRATION FEES

Early Registration before September, 15th ......................................................... Euro 366,00 (€ 300,00 + 22% VAT)

Late Registration after September, 16th ............................................................. Euro 427,00 (€ 350,00 + 22% VAT)

METHOD OF PAYMENT

☐ Bank transfer headed to Nadirex International S.r.l. - c/o: Banca Ubi Banca - Filiale Pavia Porta Cavour
   Cab 11305 - Swift Code: BLOPIT22634 - IBAN: IT48A03111130500000030112

☐ Credit Card: Visa - Master Card - American Express
   Card Number ........................................................................................ CV2 code .......... Expiry date ..................
   Credit Card holder ............................................................................. Signature .................................................................

I authorise the use of my personal data in accordance with Legislative Decree 196/2003

Date........................................................................................................ Signature ..................................................................

Fill in using block letters and send within October, 15th
Registration on-line: www.neurohiv.com

8TH INTERNATIONAL MEETING ON HIV INFECTION OF THE CENTRAL NERVOUS SYSTEM

NeuroHIV 2019
OCTOBER, 17th-19th 2019
ROMA, ITALY
With the unrestricted grant of

GILEAD

ViiV Healthcare

janssen

MSD

ARISTO