

SEVENTH INTERNATIONAL MEETING

on HIV Infection of the Central Nervous System

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NeuroHIV

Pollenzo - Bra (CN), Italy - Albergo dell'Agencia

October, 12th-14th 2017

Day 1 - Thursday, October 12th, 2017

08.30am-09.00am Registration
and Welcome Remarks to the General Meeting

NIMH-sponsored Workshop on Approach to Consortium Studies of CNS HIV Escape



Organizer: **J. Joseph** (Bethesda, USA);
Co-chairs: **S. Spudich** (New Haven, USA); **A. Winston** (London, UK)
Participants: **A. Antinori** (Rome, Italy), **P. Cinque** (Milan, Italy),
H. Fox (Omaha, USA), **M. Gisslen** (Göteborg, Sweden),
T. Henrich (San Francisco, USA), **S. Letendre** (San Diego, USA),
D. Persaud (Baltimore, USA), **R.W. Price** (San Francisco, USA)

09.00am- 09.10am Welcome/purpose/goals
J. Joseph (Bethesda, USA)

09.10am-09.25am Concept, rationale, and challenges for coordination
of CSF escape studies across multiple sites
H. Fox (Omaha, USA)

09.25am-09.35am Discussion

CSF escape: Laboratory/clinical definitions for consortium collaboration

09.35am-09.45am HIV RNA definitions of CSF escape
R.W. Price (San Francisco, USA)

09.45am-10.10am Panel discussion and agreement of consensus definitions:
-CSF escape when plasma HIV RNA undetectable
-CSF escape when plasma HIV RNA detectable

10.10am-10.20am Asymptomatic vs symptomatic escape
A. Antinori (Rome, Italy), **P. Cinque** (Milan, Italy)

10.20am-10.45am Panel discussion and agreement of consensus definitions:
-Definition of symptomatic CSF escape
-Definition of asymptomatic CSF escape

10.45am-11.10am **COFFEE BREAK**

CSF escape: Practical issues for consortium studies

11.10am-11.20am What clinical & laboratory data are required?
M. Gisslen (Göteborg, Sweden), **S. Letendre** (San Diego, USA)

11.20am-11.45am Panel discussion and agreement on essential clinical and
laboratory details
-HIV factors and ART factors
-Co-morbidities and co-infections
-HIV RNA data, antiretroviral drug resistance data
-Other biomarkers

11.45am-11.55am **Integrating CSF studies in HIV persistence &
eradication studies: clinical and laboratory implications**
T. Henrich (San Francisco, USA), **D. Persaud** (Baltimore, USA)

11.55am-12.20pm Questions for panel discussion:
-What are the barriers/challenges to studying CSF
in HIV curative trials (adults and children)?
-What information can be gained from in depth study
of CSF in the setting of HIV eradication efforts?
-How do we centralize or standardize CSF testing?
-What novel studies can be applied to future or stored
CSF samples or neuropsychiatric testing?

12.20pm-01.00pm **GROUP DISCUSSION/CONSENSUS
FOR DEFINITIONS AND PRACTICAL ISSUES**
• **S. Spudich** (New Haven, USA); **A. Winston** (London, UK)
• Review of all the agreed criteria and definitions

01.00pm-01.30pm Discussion

01.30pm-02.30pm **LUNCH**

Day 1 - Thursday, October 12th, 2017

02.00pm-02.30pm Registration

SESSION 1 - Mechanisms and biomarkers of CNS HIV Infection

Welcome remarks and chair: **G. Ippolito** (Rome, Italy), **A. Lazzarin** (Milan, Italy)

02.30pm-03.00pm Myeloid cells in CNS infection: traffic and replication
G. Poli (Milan, Italy)

03.00pm-03.30pm CNS viral and cell dynamics in the humanized
mouse model
V. Garcia (Chapel Hill, USA)

03.30pm-04.00pm Systemic-CNS viral dynamics in a simian HIV-1 infection
V. Hirsch (Rockville, USA)

04.00pm-04.30pm Systemic-CNS viral dynamics in a human HIV-1 infection
R. Swanstrom (Chapel Hill, USA)

04.30pm-05.00pm **COFFEE BREAK**

Chairpersons: **F. Maggiolo** (Bergamo, Italy), **C. Mussini** (Modena, Italy)

05.00pm-05.30pm Cerebrospinal fluid biomarkers
M. Gisslen (Göteborg, Sweden)

05.30pm-06.00pm Imaging the ageing HIV brain
J. Cole (London, UK)

Chairpersons: **A. Cingolani** (Rome, Italy), **G. Marchetti** (Milan, Italy)

06.00pm-07.00pm **POSTER SESSION**

08.00pm **DINNER**

Day 2 - Friday, October 13th, 2017

SESSION 2 - CNS HIV Treatment: 1. Effects of ART on early CNS infection

Chairpersons: **B.M. Ceesia** (Catania, Italy), **A. Di Biagio** (Genoa, Italy)

09.00am-09.30am Current neurological problems and their trend
over the last years
A. Antinori (Rome, Italy)

09.30am-10.00am Impact of early treatment on viral persistence
and inflammation
S. Spudich (New Haven, USA)

10.00am-10.30am Impact of early treatment on neurocognitive function
K. Robertson (Chapel Hill, USA)

10.30am-11.00am **COFFEE BREAK**

SESSION 3 - CNS HIV Treatment: 2.Effects of ART on treated CNS infection

Chairpersons: **S. Bonora** (Turin, Italy), **A. De Luca** (Siena, Italy)

11.00am-11.30am PK and efficacy of new ARV drugs
A. Yilmaz (Göteborg, Sweden)

11.30am-12.00pm Relevance of ART neuropenetration of importance
review of evidence pro/con
S. Letendre (San Diego, USA)

12.00pm-12.30pm CNS drug toxicities
E. Martinez (Barcelona, Spain)

12.30pm-01.00pm Neuropsychological performance, imaging and
inflammation in ART-treated compared to HIV-negatives
A. Winston (London, UK)

01.00pm-02.00pm **LUNCH**

Day 2 - Friday, October 13th, 2017

Chairpersons: **A. Gori** (Milan, Italy), **G. Rizzardini** (Milan, Italy)

02.00pm-02.30pm Asymptomatic CSF HIV escape

A. Calcagno (Turin, Italy)

02.30pm-03.00pm Symptomatic and secondary CSF HIV escape
P. Cinque (Milan, Italy)

03.00pm-03.30pm Brain imaging of CSF HIV escape

S. Gerevini (Milan, Italy)

03.30pm-04.00pm Virological character of CSF HIV escape
S. Joseph (Chapel Hill, USA)

04.00pm-04.30pm **COFFEE BREAK**

Chairpersons: **G. Nunnari** (Catania, Italy), **S. Rusconi** (Milan, Italy)

ORAL PRESENTATIONS

04.30pm-04.45pm **OC 01** - HIV-1 GAG COUNTERACTS AN INNATE RE-
STRICTION BY AMYLOID PRECURSOR PROTEIN RE-
SULTING IN NEURODEGENERATION • **M.H. Naghavi**

04.45pm-05.00pm **OC 02** - HIV-ASSOCIATED CD8 ENCEPHALITIS
(CD8E): VARIABLE PRECIPITATORS WITH A NEURO-
PATHOLOGICAL FINAL COMMON PATHWAY - A
UNIFYING HYPOTHESIS • **S. Lucas**

05.00pm-05.15pm **OC 03** - CSF LEVELS OF THE GLIAL MARKER YKL-40
ARE STRONGLY ASSOCIATED WITH NEURONAL IN-
JURY IN HIV • **L. Hermansson**

05.15pm-05.30pm **OC 04** - DYNAMICS OF HIV INFECTION IN THE
BRAIN • **J. Honeycutt**

05.30pm-05.45pm **OC 05** - PERSISTENCE OF NEUROCOGNITIVE IM-
PAIRMENT AND Milder FORMS OF HIV-ASSOCIA-
TED NEUROCOGNITIVE DISORDERS (HAND) OVER
20 YEARS IN THE HAART ERA: EVIDENCE FROM ST.
MICHAEL'S HOSPITAL NEUROHIV CLINICAL CO-
HORT (TORONTO, CANADA) • **S.B. Rourke**

05.45pm-06.00pm **OC 06** - HIV-1 IN THE OLFACTORY MUCOSA OF
CHRONICALLY INFECTED PATIENTS: WHERE DOES
IT COME FROM? • **L.P. Kincer**

Chairpersons: **R. Maserati** (Pavia, Italy), **S. Parisi** (Padua, Italy)

06.00pm-07.00pm **POSTER SESSION**

08.00pm **DINNER**

Day 3 - Saturday, October 14th, 2017

SESSION 4 - The CNS reservoir and its role in viral eradication

Chairpersons: **G. Di Perri** (Turin, Italy), **M. Galli** (Milan, Italy)

09.00am-09.30am Effect of systemic and CNS inflammation on the CNS
and ways to interact
P. Hunt (San Francisco, USA)

09.30am-10.00am HIV tat, a pivotal molecule in CNS HIV latency, target for
mitigation and biomarker of the CNS reservoir
A. Nath (Bethesda, USA)

10.00am-10.30am Models of CNS cure/mitigation in primates
L. Gama (Baltimore, USA)

10.30am-11.00am **COFFEE BREAK**

Chairpersons: **A. d'Arminio Monforte** (Milan, Italy), **G. Poli** (Milan, Italy)

11.00am-11.30am Systemic HIV persistence, effects on morbidity
and mortality and approaches to mitigation and cure
T. Henrich (San Francisco, USA)

11.30am-12.00pm HIV Cure research relevant to the CNS
R.W. Price (San Francisco, USA)

12.00pm-12.30pm **FINAL REMARKS**

and CME Questionnaire compilation

12.30pm-01.00pm **LUNCH**

CONGRESS VENUE

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CME

The request for CME credits has been forwarded to the Italian Mini-
stry of Health for Italian participants. **Nr. 265-201260 - Nr. 16,5 CME
credits.** The Congress is intended for 100 participants.

Physician: *Infectious Diseases - Microbiology and Virology - Neurology*
- Psychiatry. Psychologist: *Psychotherapy - Psychology.*

REGISTRATION

Early Registration before September, 18th € 366,00 (300,00+22% VAT)
Late Registration after September, 18th € 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
- Thursday October, 12th Dinner
- Friday October, 13th Dinner