



Rational Design of HIV Vaccines and Microbicides
Network Annual Conference
10-13 November 08
The Westin Dragonara Hotel, Malta

PROGRAMME

Monday 10th November 08

17.00 Steering Committee and Advisory Board Meeting (continued at dinner in Mdina)

Tuesday 11th November 08

8.30 Registration

Chair – Robin Shattock and Britta Wahren

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| 9.00 | <i>Hans Wigzell</i> | EUROPRISE Programme development |
| 9.30 | <i>Jose Esparza</i> | Big Science to solve a major global health problem: the Collaboration for AIDS Vaccine Development |
| 10.00 | <i>Gary Nabel</i> | Will We Find an AIDS Vaccine? |

10.30 Coffee and access to posters

Vaccination and microbicide studies

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| 11.00 | <i>Susan Barnett</i> | Recombinant alphavirus and adjuvanted protein vaccines delivered mucosally and systemically protect macaques from mucosal SHIV challenges |
| 11.20 | <i>Barbara Ensoli</i> | Parenteral and mucosal immunization with Tat and DeltaV2-Env combined followed by mucosal SHIV challenge |
| 11.40 | <i>Thomas Lehner</i> | Mucosal immunization in macaques upregulates the innate APOBEC 3G antiviral factor in mucosal and circulating CD4 ⁺ memory T cells |
| 12.00 | <i>Roger LeGrand</i> | Antibody microbicides protect against vaginal challenge in the macaque model |

12.20 Lunch and access to posters

Novel antigens and adjuvants

Chair – Rino Rappuoli and Harvey Holmes

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| 13.20 | <i>Ralf Wagner</i> | Exploiting the HIV-1 group specific antigen to enhance the induction of virus-specific T- and B-cell responses |
| 13.40 | <i>Giuseppe Scala</i> | Identification of novel conformational epitopes as HIV-1 vaccine candidates |
| 14.00 | <i>Indresh Srivastava</i> | Structure based rational design of HIV Env immunogens |
| 14.20 | <i>Frédéric Tangy</i> | Immunogenicity of replicating measles vectors that express HIV-1 gag VLPs covered with gp160 |

- 15.00 *Adnane Achour* Development of a novel generation of MHC class I-binding “super-peptides” for vaccines
- 15.20 *Coffee and access to posters*
- 15.40 *Caroline Weber - EUROPRISE PhD student* Co-adsorption of TLR3 ligand and HIV-1 antigens as a tool for increasing potency of biodegradable vaccine vehicle
- 16.00 *Quentin Sattentau* Novel adjuvants for induction of HIV neutralising antibodies

Strategic Review of Vaccine platform (WP3)

- 16.20 *Facilitated by Peter Wilson*
- 18.00 *Cocktail reception and Posters session*

Wednesday 12th November 08

Chair – Charles Kelly and Edward Karamov

Human studies

- 9.00 *Hanneke Schuitemaker* Regain of viremic control after superinfection with pathogenic HIV-1 in a long-term elite controller of HIV-1 infection
- 9.20 *Gianni Pozzi* New assays for biomarkers of vaginal health
- 9.40 *Nancy Vivar* IL-7 as a driving force of Fas-Mediated Signalling During HIV-1 Infection
- 10.00 *Steven Patterson* Re-stimulation of adenoviral specific memory T cells induces expansion of CD4 T cells with a gut homing phenotype, up-regulation of CD4 and CCR5 expression, and a higher susceptibility to infection by R-5 strains of HIV-1 in-vitro
- 10.20 *Coffee and posters*

Dendritic/langerhans cells in transmission and protection

- 10.50 *Maryse Peressin* Langerhans and interstitial dendritic cells transfer HIV to T cells: Inhibitory effects of antibodies
- 11.10 *Karolin Hijazi* DC-SIGN increases the affinity of HIV-1 gp120 interaction with CD4
- 11.30 *Klaus Uberla* Costimulation enhances the priming efficiency of DNA vaccines encoding a DEC205 targeted antigen
- 11.50 *Linda Klavinskis* Harnessing skin dendritic cells as a vaccination strategy

Humoral and cellular Immunity

- 12.10 *Gabriella Scarlatti* Standardization of HIV Neutralization Assays for Use in Vaccine Research and Clinical Trials: Results from the NeutNet Project

12.30 Lunch and Poster session (possible parallel Break-out sessions if requested)

Chair – Frances Gotch and Gabriella Scarlatti

- 14.30 *Vincent Holl* HIV-specific antibodies inhibit HIV replication in plasmacytoid dendritic cells
- 14.50 *Mariangela Cavarelli* HIV-1 with Multiple CCR5/CXCR4 Chimeric Receptor Use Is

- 15.10 ***Giusi Li Pira*** Predictive of Immunological Failure in Infected Children
High throughput microdissection of T-cell immunity: possible applications to monitor HIV vaccines
- 15.30 *Coffee*
- 16.00 ***Martin Goodier*** Lipopolysaccharide stimulation of Natural Killer cells from HIV-1 infected individuals

Animal models

- 16.20 ***Neil Almond*** Using Immuno-genetic Characterisation to Improve Animal Challenge Models for HIV/AIDS
- 16.40 ***Ulrike Sauermann*** Chromosomal regions determining disease progression in simian immunodeficiency virus (SIV)-infected rhesus macaques - results from a genome wide screening study
- 17.00 Discussions**
- 19.00 Conference Dinner** *Casino Maltese, Valetta*

Thursday 13 th November 08

Spreading the Excellence through Training

Chair – Hans Wigzell

- 9.00 ***Britta Wahren*** Training Programme and PhD School
- 9.15 ***Ke Xu – EUROPRISE PhD student*** Enhancement of HIV replication in immature dendritic cells in the presence of CD4 T lymphocytes and CD19 B lymphocytes
- 9.30 ***Andreas Boberg - EUROPRISE PhD student*** The B-subunit of recombinant cholera toxin shows adjuvant effects when given as a fusion protein to a drug resistant variant of an HIV-1 derived protease epitope.
- 9.45 ***Andrea Gorlani - EUROPRISE PhD student*** Promising features of anti-CD4bs Llama antibody A12 as microbicide.
- 10.00 ***Paolo Palma - EUROPRISE PhD student*** To B or not to B: timing of HAART defines the stage of B cell dysfunctions and the design of vaccine schedules in HIV infected children
- 10.15 **Best Poster Award: *Donata Medaglini, Anna-Lena Spetz and Martin Cranage***
- 10.30 Coffee*

Clinical, Dissemination and Advocacy, Management

- 11.00 ***Thomas Mertenskoetter*** IPM's R&D and clinical programme
- 11.20 ***Sheena McCormack*** The Can-Do Directory for HIV Prevention Trials
- 11.40 ***David Haerry*** Dissemination and Advocacy Update
- 12.00 ***Natasha Polyanskaya*** Network management Update
- 12.20 Announcements and Closure**
- 12.30 Lunch*