

European HIV Vaccine Alliance (EHVA): an EU platform for the discovery and evaluation of novel prophylactic and therapeutic vaccine candidates

- Fact Sheet January 2016

OUR CHALLENGES:

Despite enormous progress in the prevention and treatment of HIV/AIDS, the global response cannot keep pace: 35 million people are living with HIV worldwide with ca 6,000 new infections each day. Numerous HIV prevention strategies (such as PrEP and PEP), though proven successful, are difficult to sustain long-term. A vaccine still represents the most effective tool in the combat against HIV from a public health perspective. To date, many prophylactic and therapeutic vaccine concepts have been developed and several efficacy trials have been conducted but with limited success. There is an urgent need to develop better vaccines and tools predictive of immunogenicity and of correlates of protection at the early stage of vaccine development to mitigate the risks of failure.

EHVA APPROACH

To address these complex and challenging scientific issues, EHVA aims to develop a Multidisciplinary Vaccine Platform through a global and innovative alliance notably:

- Multidisciplinary expertise from vaccine discovery, to immune monitoring to clinical development
- State-of-the-art innovative technologies to profile immune responses and virus reservoir
- Access to large cohort studies bringing together top European clinical centres in the fields of prophylactic and therapeutic vaccines
- Access to a panel of experimental HIV vaccines under clinical development as benchmark
- Liaison with African leading scientists/programs fostering future testing of EHVA vaccines in Sub-Saharan Africa
- Engagement of industrial expertise for downstream vaccine development

EHVA OBJECTIVES

EHVA plans to develop and implement:

- **Discovery Platform** with the goal of generating novel vaccine candidates inducing potent neutralizing and non-neutralizing antibody responses and T-cell responses
- **Immune Profiling Platform** with the goal of ranking novel and existing (benchmark) vaccine candidates on the basis of the immune profile
- **Data Management/Integration/Down-Selection Platform**, with the goal of providing statistical tools for the analysis and interpretation of complex data and algorithms for the efficient selection of vaccines
- **Clinical Trials Platform** with the goal of accelerating the clinical development of novel vaccines and the early prediction of vaccine failure.

ABOUT EHVA

EHVA brings together **39 partners** from 11 countries in Europe, 4 in Sub-Saharan Africa and the US, involving leading scientists in the fields of molecular biology, structure biology, vectorology, adjuvants, delivery, immunology, clinical science and biostatistics.

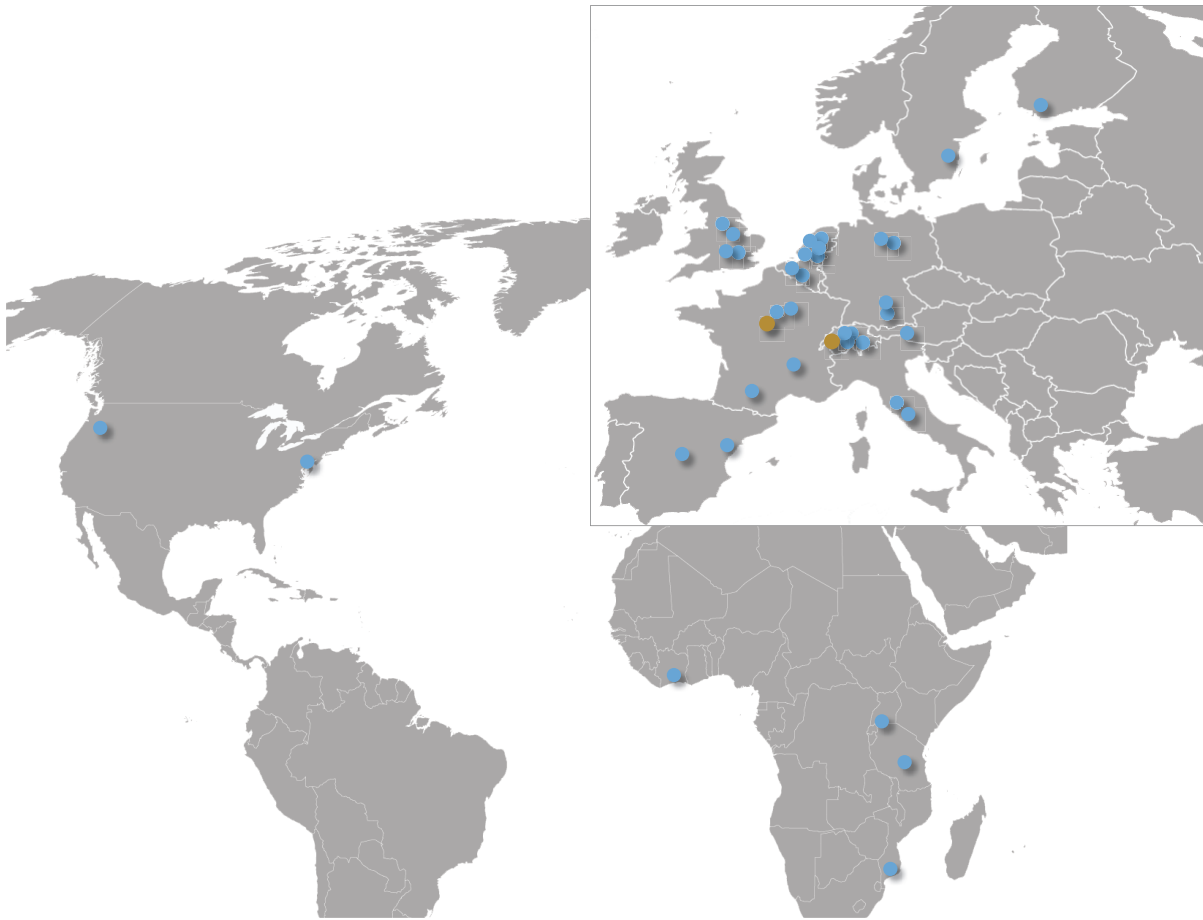
Furthermore, EHVA bridges **industrial expertise** with academic excellence by engaging directly world leading pharmaceutical companies in the consortium, a partnership essential for the discovery and development of an effective vaccine.

EHVA is coordinated by the Institut national de la santé et de la recherche médicale (INSERM) and the scientific leadership is carried out conjointly with the Lausanne University Hospital (CHUV).

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EHVA partners



Institut national de la santé et de la recherche médicale **France**

Lausanne University Hospital CHUV **Switzerland**

Sanofi Pasteur SA **France**

Consorci Institut d'Investigacions Biomèdiques August Pi i Sunyer **Spain**

Heinrich-Pette Institut Leibniz Institut für Experimentelle

Virologie **Germany**

Imperial College of Science, Technology and Medicine **UK**

Istituto Superiore di Sanità **Italy**

Universität Regensburg **Germany**

Karolinska Institutet **Sweden**

Universität Zürich **Switzerland**

Fondazione per l'Istituto di Ricerca in Biomedicina **Switzerland**

Universitätsklinikum Hamburg-Eppendorf **Germany**

The Chancellor, Masters and Scholars of the University of Oxford **UK**

Université Joseph Fourier Grenoble **France**

Academisch Medisch Centrum bij de Universiteit van Amsterdam **the Netherlands**

Stichting Biomedical Primate Research Center **the Netherlands**

Klinikum der Universität München **Germany**

Medizinische Universität Innsbruck **Austria**

Agencia Estatal Consejo Superior de Investigaciones Cientificas **Spain**

Université de Lausanne **Switzerland**

Erasmus Universitair Medisch Centrum Rotterdam **the Netherlands**

Stichting International AIDS Vaccine Initiative **the Netherlands**

FIT Biotech Oy **Finland**

EuroVacc Foundation **Switzerland**

Fred Hutchinson Cancer Research Center Non Profit Corporation **US**

Commissariat à l'énergie atomique et aux énergies alternatives **France**

Universität Bern **Switzerland**

Janssen **the Netherlands**

Uganda Virus Research Institute **Uganda**

National Institute for Medical Research **Tanzania**

Instituto Nacional de Saude **Mozambique**

Association PAC-CI **Cote d'Ivoire**

University College London **UK**

University of Liverpool **UK**

The General Hospital Corporation **US**

Vrije Universiteit Brussel **Belgium**

Istituto Nazionale Malattie Infettive L.Spallanzani - IRCCS **Italy**

European AIDS Treatment Group (EATG) **Belgium**

Inserm Transfert **France**