



ABIVAX expands its antiviral portfolio with compounds targeting Zika virus

- **New data published in *Science* support ABIVAX's small molecule approach in the development of antiviral therapies**

Paris, March April 11th, 2017 at 6:00pm (CEST) – ABIVAX (Euronext Paris: FR0012333284 – ABVX), an innovative biotechnology company targeting the immune system to eliminate viral diseases, today announced the expansion of its portfolio of antiviral drug candidates with a program for the treatment of Zika virus infections. In an initial round of phenotypic screening, several small molecules from its antiviral library containing more than 1.000 compounds showed activity against the Zika virus. These compounds will be analyzed for their ability to inhibit Zika virus induced damage of neuronal stem cells, the mechanism that has been suggested to lead to microcephali and the Guillain-Barre syndrome observed in patients with Zika virus infections.

ABIVAX's small molecule approach to develop new antivirals for flaviviruses (e.g. Dengue and Zika) has been supported by new scientific research published in the March 30, 2017 issue of *Science*. In the article, [*Enhancement of Zika virus pathogenesis by preexisting ant flavivirus immunity*](#) (Bardina *et al*) the authors observed an antibody-dependent enhancement (ADE) of Zika infection *in vitro* which was mediated through the engagement of Dengue or West Nile virus specific IgG with the Fcγ receptor. The administration of plasma from individuals previously infected with Dengue or West Nile Virus to Zika Virus susceptible mice resulted in an aggravation of morbidity (including fever, viremia, and viral loads in spinal cords and testes) and increased mortality. These data led the authors of the study to conclude that flavivirus vaccines (e.g. Dengue, West Nile or Zika) might carry the risk of a disease-enhancing effect and therefore need to be designed with great caution.

"These data strongly support our approach to develop novel antiviral treatments for these types of viruses based on small molecules. Antibody-dependent disease enhancement is a phenomenon observed with flaviviruses, leading to a more severe clinical course of the disease. With the new program of recently identified compounds from our antiviral platform we believe we have the opportunity to develop a drug for the treatment of both Zika and Dengue infections that avoid the potential risk of ADE associated with vaccines," said Prof. Hartmut J. Ehrlich, M.D., Chief Executive Officer of ABIVAX.

About ABIVAX (www.abivax.com)

ABIVAX is an innovative biotechnology company focused on targeting the immune system to eliminate viral disease. To do this ABIVAX leverages three technology platforms for drug discovery: antiviral, immune enhancing and polyclonal antibodies. ABX464, its most advanced compound, is currently in Phase II clinical trials to test its ability to enable a functional cure for patients with HIV/AIDS. It is a first-in-class oral small antiviral molecule which blocks HIV replication through a unique mechanism of action and, separately, also has a strong anti-inflammatory effect. In addition, ABIVAX is advancing a clinical stage immune enhancer as well as multiple preclinical candidates against additional viral targets (i.e. Chikungunya, Ebola, Dengue); several of these compounds are planned to enter clinical development within the next 18 months. ABIVAX is listed on Euronext compartment B (ISIN: FR0012333284 – Mnémo: ABVX).



More information on the company is available at www.abivax.com.

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