

The **BBVA Foundation** and the **Spanish National Research Council (CSIC)**
are pleased to invite you to the lecture:

Transmission Dynamics and Epidemiology of Pandemic Influenza

Cécile Viboud

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Summary:

There are important gaps in our understanding of the global burden and transmission dynamics of pandemic influenza. Based on retrospective analysis of a variety of historical datasets illustrating our experience with the 1889, 1918, 1957, 1968 and 2009 pandemics in the Americas, Europe, Africa and Asia, I will discuss how influenza severity and transmission dynamics vary with seasonality, socio-economic conditions, human mobility, and co-circulation of other pathogens.

Biography:

Cecile Viboud, PhD, is a mathematical epidemiologist in the Division of International Epidemiology and Population Studies of the Fogarty International Center, US National Institutes of Health, where she has worked since 2003.

Her research focuses on the epidemiology and transmission dynamics of acute viral infections, particularly influenza, at the interface of public health and computational modeling. She has recently become interested in the transmission dynamics of Ebola and MERS-CoV, and the potential use of Big Data for infectious disease surveillance and forecasting.

A native of France, she received an engineering degree in biomedical technologies from the University of Lyon (1998), and an MA in Public Health (1999) and PhD in Biomathematics (2003) from Pierre and Marie Curie University, Paris, France.

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