Fundación **BBVA**



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

Long-term Evolution of the Shape of the Mortality Function

Marco Breschi

Professor of Economic Science, Statistics and Demography, University of Sassari, Italy

Summary:

In the study I will discuss today, we investigated the shape of the mortality function before age 50. The analysis covered 1,334 mortality functions from eight countries over a century and a half, with different data sets for the two sexes. Our analysis was performed by applying a non-parametric technique to the life tables of the Human Mortality Database. This allowed the identification of the critical points – the minima and maxima – of the mortality function. We used this information to analyze the rise and fall of mortality which takes place between puberty and the onset of demographic ageing, generally known as the "mortality hump." From our study four major results emerge: a) The mortality hump is not a universal phenomenon; b) Its amplitude is generally larger in males than females and in both sexes it shows a secular decline; c) Its length is similar in males and females and it has shown minor variation over the last 150 years; and d) The hump occurs earlier in females than in males, and in both sexes its location shows a secular shift towards younger ages. Our finding appears to be supportive of the testosterone hypothesis, which claims that the mortality hump reflects the rise of testosterone levels during puberty and the subsequent falls through adulthood.

Biography:

Marco Breschi is Professor of Economic Science, Statistics and Demography at the University of Sassari (Italy). Population history is his main research field. He has also worked on contemporary issues: in particular, in the last few years he has studied Italian fertility and health inequalities in the population. His research, conducted at the macro and micro level, focuses on three main themes: a) the complex interplay of family and economic context on individual demographic behaviors; b) the determinants of early childhood mortality; and c) individual and family reactions and adjustments to demographic stress.

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This lecture series enjoys the exclusive support of the BBVA Foundation and has been co-organized with the Spanish National Research Council and the LONGPOP project (Methodologies and Data Mining Techniques for the Analysis of Big Data based on Longitudinal Population and Epidemiological Registers). The LONGPOP project has received funding from the European Union's Horizon 2020 research and innovation program under a Marie Sklodowska-Curie grant.

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Monday, April 23 at 19:00 Fundación BBVA

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REQUEST ATTENDANCE

Please confirm attendance. Limited seating e-mail: confirmaciones@fbbva.es The lecture will be delivered in English without translation