

GEEsent-DavinsBirthdayDebate

Vécheschy 13th February 2019 1600 to 1900

Hett Lecture Theatre, Natural History M. Beum, Exhibition Road, London, SW75ED

1600	Eventopens
1615	Welcome and Introduction by Professor Anjali Goswami
1630	Talk 1 by Professor Anne Stone
1700	Talk2 by Professor Vipi Lumma
1730	Questions and discussion
1800	Wine Reception and Informal Networking
1900	Eventfinishes

Arizona State University, USA Website:

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Title: Natural selection – now!

The Industrial Revolution and the accompanying nutritional, Abstract epidemiological and demographic changes have profoundly changed human ecology and biology, leading to major shifts for example in our disease patterns, lifespan, family size or age at publicity. These recent social and cultural adaptations have cast dubt on the continued relevance of Dawinian selection in humans - we now have modern medical care and effective contracentive methods so does that mean evolution by natural selection has stopped? I will discuss how mismatches between pastadaptations and the current environment mean that gene variants linked to higher fitness in the past may now predispose us to non-communicable diseases, such as Alzheimerdisease, cancerand coronary artery disease. Moreover, in both traditional and industrialized societies, differences among individuals still lead to selection favouring certain heritable traits because although survival to old age can be high not everyone has the same family size and many forego reproduction altogether. In line with this, increasing evidence suggests that the transition to modernity has also altered the direction and intensity of natural selection acting on many traits, with important implications for public and global health

Speakerbio Vipi Lumma studies natual selection incontemporary human populations. Lumma investigates how the modernerwironment itself fuels human evolution and how demographic shifts to low birth and deathnates affect the opportunity for selection or specific trait selection. She uses longiturinal demographic data from Finland spanning 350 years sind none than twelve generations to look at how the strength and direct witce theroigeu

