

Speaker: **Dr. Hernán A. Burbano**
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Title: **Plant biotic interactions combining present-day
and historical samples**

Time: **Tuesday, February 13, 2024, 2 pm**

Place: **IPK Lecture Hall and via Zoom (Hybrid Meeting)**

VCS Zoom: [https://ipk-gatersleben-
de.zoom.us/j/68049677218?pwd=ZjAwN3VKKS2tOFIPbmo0Uy8vck5idz09](https://ipk-gatersleben-de.zoom.us/j/68049677218?pwd=ZjAwN3VKKS2tOFIPbmo0Uy8vck5idz09)
Meeting-ID: 680 4967 7218 Kenncode: 109755

Skype for Business: <https://ipk-gatersleben-de.zoom.us/skype/68049677218>

Abstract:

In this talk, I will delve into the realm of plant-pathogen coevolution by integrating present-day and historical samples to examine the interactions between crop and wild plants and their fungal and bacterial pathogens. Furthermore, I will explore the role of bacteriophages in shaping inter-bacterial competition and influencing the outcomes of bacterial infections in metapopulations of historical and modern plant pathogens. To shed light on the multifaceted nature of these interactions, I will contrast the results of plant-pathogen relationships in cultivated crops with those found in natural ecosystems.

CV:

Hernán studied veterinary medicine and biology (1996-2016) at the Universidad Nacional de Colombia in Bogotá. He moved afterward to the Max Planck Institute (MPI) for Evolutionary Anthropology in Leipzig, Germany, where he worked on ancient genomics of humans and archaic hominins under the supervision of Svante Pääbo and Michael Lachmann. Hernán obtained a Ph.D. in evolutionary genetics from the University of Leipzig in 2012. Hernán then relocated as a postdoctoral researcher (2012-2014) at the MPI for Developmental Biology in Tuebingen, Germany, under the supervision of Detlef Weigel. There, he integrated plant evolutionary genomics and ancient DNA. From 2014 to 2019, Hernán led the Research Group for Ancient Genomics and Evolution at the MPI for Developmental Biology, before joining the UCL Centre for Life's Origins and Evolution in 2019. In 2019, Hernán was awarded a Royal Society Wolfson Fellowship, a scheme jointly funded by the Royal Society and the Wolfson Foundation that enables the recruitment of outstanding research leaders to the UK from overseas. In 2020, Hernán was honored with a Philip Leverhulme Prize for outstanding contributions to Biological Sciences.