

ASHBi SEMINAR

Exploring evolutionary immunogenomics: Lessons from primates and recent pandemics

Lecturer: Luis Barreiro Ph.D.
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Date Thursday, 16 June 2022

Time 11:00 – 12:00 [JST]

Venue Zoom Online Meeting*

*Register via the right QR code



Abstract

Humans display remarkable immune response variation when exposed to identical immune challenges. However, our understanding of the genetic, evolutionary, and environmental factors that impact immune response heterogeneity across species and human populations is still in its early days. In this seminar I will address three fundamental questions concerning the evolution of the human immune system: 1. the degree to which innate immune responses have evolved during primate evolution; 2. the degree to which individuals from different populations vary in their innate immune responses and the genetic variants accounting for such differences; and 3. the evolutionary mechanisms that led to the establishment of these variants in modern human populations. How past selective events might have contributed to the uneven distribution of immune-related disorders across populations will also be considered.

Organizer : Graduate School of Medicine

Institute for the Advanced Study of Human Biology (WPI-ASHBi)

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