Physics Colloquium Mainz

In this talk I will introduce infectious diseases and their sensitivity to climate variability and change. I will describe and contrast experimental evidence with empirical observations and data. In the talk I will discuss systems and interactions enabling introduction and transmission of emergent vectors, hosts, and pathogens. I will further give examples of how mathematical process-based models and machine learning approaches are used and how they can be applied to study patterns and responses to these changes. Finally, I will talk about novel applications of machine learning in surveillance and early warnings, as well as the evaluation of interventions to guide effective responses.

April 30, 2024 at 16 c.t.

Lecture room KPH, Johann-Joachim-Becher-Weg 45, JGU

Infectious diseases in a changing climate – what's lurking around the corner?

Prof. Dr. Joacim Rocklöv

Heidelberg University

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