

# FIRST WORKSHOP

"DYNAMICAL SYSTEMS APPLIED TO  
BIOLOGY AND NATURAL SCIENCES "

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ABSTRACT | Gabriela Gomes

## Title

Integrative Epidemiology

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## Abstract

While biological experimentation unravels the molecular basis of living organisms in controlled settings, epidemiological observation collects evidence for factors associated with disease in natural environments. The effective transfer of knowledge between these two branches of biomedical sciences is critical to the definition of research priorities in terms of expected impact on human health. I will discuss the role of mathematical models in bridging biology and epidemiology.