



University  
of Basel

Department  
Biozentrum



Swiss Institute of  
Bioinformatics

BIOZENTRUM

The Center for  
Molecular Life Sciences

## Basel Computational Biology Seminar 21563 Current research in Bioinformatics II

**Thierry Mora**

*Laboratoire de physique  
École normale supérieure & CNRS  
Paris, France*

### Decoding the immune repertoire

The repertoire of antigen-specific receptors expressed by our B and T cells contains a record of our immune history, and encodes defences against future challenges. How to decode this information from repertoire sequencing remains an open challenge.

I will show how computational methods and theories of immune response and memory can help us make progress. I will also present some modeling efforts to understand how our immune systems shape and are shaped by the evolution of circulating viruses in a continual process of co-evolution.

**Date:** Monday, May 5, 2025

**Time:** 16:15 h – 17:30h

**Location:** Biozentrum, U1.197

**Contact:** Ludovico Calabrese ([ludovico.calabrese@unibas.ch](mailto:ludovico.calabrese@unibas.ch))