



THE CELL PARADIGM: CELLULAR DIVERSITY IN DISEASE AND EVOLUTION

13 MAY 2024
4.30 P.M.
ROOM A207 | POVO 1

Cells are the functional units of life. Correct orchestration of gene expression by each individual cells gives rise to emergent organismal phenomena such as tissue homeostasis and development, while aberrant cellular phenotypes are observed across many diseases. In this talk, I will present two stories to illustrate our **single-cell work** in **medicine** and **basic biology**.

The first describes how we used a **systems immunology approach** to understand dengue infection, a condition affecting half a billion people annually, in both adults and children.

The second is an ongoing effort combining data science, molecular biology, software engineering, and artificial intelligence to create an **atlas of cellular diversity across the tree of life**.



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