

E3TALK

May 21

12h00

Room 2.2.12, Ciências ULisboa

Single cell omics in the age of artificial intelligence

One of the most exciting consequences of the growth of single cell omics technologies is their use in new experimental designs. Beyond atlases, longitudinal studies with many timepoints are also yielding unprecedented volumes and formats of data. Driven by steadily decreasing sequencing costs and streamlined experimental workflows, single cell omics technologies are now widely used from basic biological research to drug discovery and clinical studies.

I will present an overview of the emerging data and AI-models landscape in the field, together with novel clinical study designs enabled by lowering cost and complexity barriers. I will discuss emerging research directions for working with these growing volumes of single cell omics data at the newly established School of Digital Public Health at Mohamed bin Zayed University of Artificial Intelligence in Abu Dhabi, and exciting opportunities at the intersection of artificial intelligence applied to biological data.



**Eduardo
da Veiga
Beltrame**

**Mohamed bin
Zayed University of
Artificial
Intelligence**

