

Ecology

'distribution and abundance of the organisms'

{ processes?
mechanisms?
interactions?
environment?

ECOSYSTEM ENGINEERS

• epidemiology (infectious disease)

- { • Incidence - new cases .
- { • prevalence .
- { • parasite burden .
- virus load

• SURVEYS

- ↳ symptoms
- ↳ antigen tests
- ↳ PCR

• wastewater (environmental DNA)

Sero surveys

• Serology .

EVOLUTION .

{ changes in genotype freq
in a population across
generations

• SELECTION .

mutation, drift

↙
• COEVOLUTION .