

# Optimizing wastewater sampling for the COVID-19 virus

1. How do we model SARS-CoV-2 concentrations in wastewater in order to determine the optimal sampling strategy –
  - For a given epidemiological context (2nd wave compared to low case numbers)?
  - At a given location within a sewerage network?
  - For a given sampling method?
    - Grab
    - Autosampling
    - Passive sampling
2. How much virus is shed by COVID-19 cases –
  - Through the course of their infection?
  - According to their age or health status?
3. How much virus is shed into wastewater catchments by COVID-19 cases –
  - Through the course of their infection?
  - According to their age or health status?
  - Through the course of an outbreak curve?