

# Bogaert Group

## Pathogenesis of common infections from an ecological perspective

- Infections commonly caused by potential pathogens (viral, bacterial, fungi) that are part of a diverse microbial ecosystem
- Microbial ecosystem important for:
  - pathogen resistance/containment
  - immune modulation
  - support of mucosal barrier function
- Microbiome seeded at birth, rapidly developing following (critical window)
- Certain microbial communities associated with protection against infections
- Beneficial microbes commonly Gram positive commensals
- Mechanisms of effect currently studied on host, microbial and environmental level

