

## **Degree project/research training project, microbial genomics**

Sequencing of microbial genomes have become a fast and affordable alternative to traditional typing methods. At SVA, microbial genomes are continuously being sequenced and analyzed in research and surveillance projects. The vast amount of sequence data that is accumulating offers opportunities to study genome dynamics both among closely related strains, e.g. associated with outbreaks, and using more distantly related strain collections. Bioinformatics-focused projects can be formulated in relation to genome analysis, genome dynamics, comparative genomics, horizontal gene transfer events, plasmidome dynamics, mobile genetic elements, antibiotic resistance genes, virulence factors etc..

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