

# Bioinformatics session

A two-day workshop for bioinformaticians and molecular biologists with focus on the TSO500 pipeline in InPreD

# Overview

1. Setup
2. Development & Collaboration
3. Nextflow
4. tso500\_nxf\_workflow
5. Python

# 1. Setup

# 1. Setup

- github account
- addition to InPreD organisation

## 2. Development & Collaboration

- short git introduction (basic git commands)
- branching system (gitflow workflow)
- github actions (linting, testing, building)
- pull requests (best practice)
- release and semantic versioning
- licensing

- nextflow
  - general (install, best practice)
  - nf-core template
  - stubbing

- tso500\_nxf\_workflow
  - status
  - demonstration

- python
  - general (best practice, cli)
  - unit testing (pytest)



## Resources

- [Gitflow](#)
- [github actions](#)
- [nf-core](#)
- [pytest unittesting](#)
- [semantic versioning](#)