## De novo genome assembly

Karin Lagesen karin.lagesen@vetinst.no

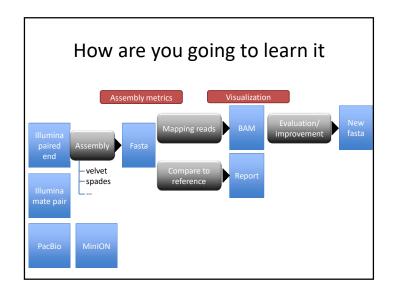


## Learning goals

- Understand basic principles of genome assembly
- Be able to run assemblies using a small variety of programs and dataset
- Be able to evaluate assemblies and compare them
- Be able to explain how different types of sequence data influence assembly results and why

## What are you going to learn

- Principles of genome assembly
- Running a few different programs
- Look at the effect of choice of program and dataset
- Evaluating assemblies
  - Without a reference
  - With a reference
- · Visualising assemblies



## Assembly exercise

- You will get sheets of paper with «reads» on them
- These are all from the same text, but with some errors
- Task: create sentences from these reads
- Keep track of your longest sentence at http://bit.ly/2xRk9xy
- Describe what you did to get your result