

**DTU**



# Tech Talks

- Before DNA goes on the sequencer, you have different lab techniques to answer different questions ex:

Abbreviation	Full Name	What can you answer/use it for?
RNA-Seq	RNA sequencing	Which genes are expressed?
WES	whole exome sequencing	Characterize the exons in a genome
ChIP-seq	chromatin immunoprecipitation sequencing	where do proteins bind to DNA?

# Tech Talks

- Divided into 6 groups
- Pick 1 type of technology for example:

RNA-Seq	ChIP-Seq	FAIRE-Seq
DNase-Seq	ATAC-Seq	DamID
BS-Seq	scRNA-Seq	CLIP-Seq
OS-Seq	RAD-Seq	SHAPE-Seq
WGS-Seq	WES-Seq	AncientDNA-Seq
GRO-seq/PRO-Seq	Hi-C	CITE-Seq
REAP-Seq	ChIL-Seq	DRIP-Seq
Perturb-Seq	MNase-Seq	

- If you propose a technology that is not on the list, check with me :-)

# Tech Talks

- Each group will create a short presentation (~4 slides / ~5-6 mins) of their technology.
- The presentation should include:
  - What question does it answer?
  - How does it work?
  - Type of data produced
  - The bioinformatics processing
  - Strengths and weaknesses of this particular technology
  - What have we learned from this?
- Be creative!
- 1 hour today to chat
- 1 hour to chat again on Tuesday Jan 12th and presentation follows
- Write your names here in the Google Sheet on the wiki