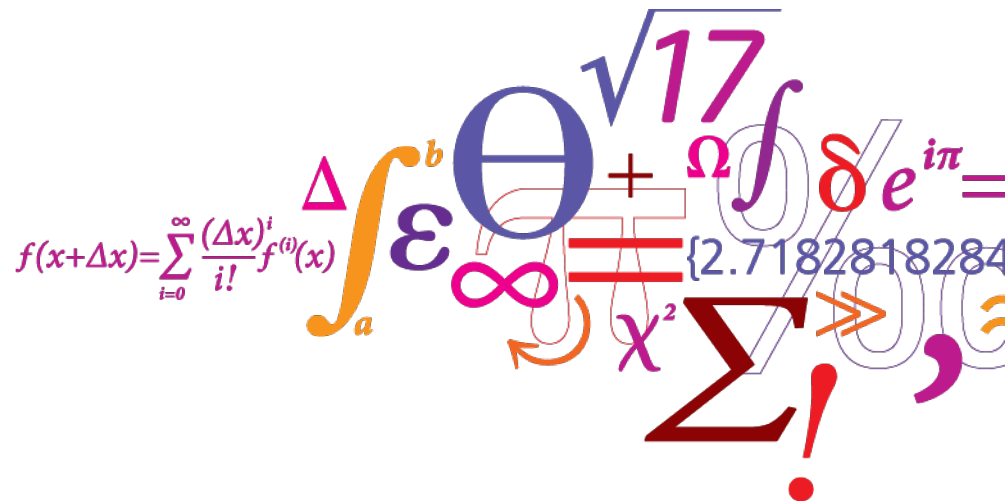


# Metagenomics and the human microbiome

Marlene D. Dalgaard



# Exercise

Sample



DNA



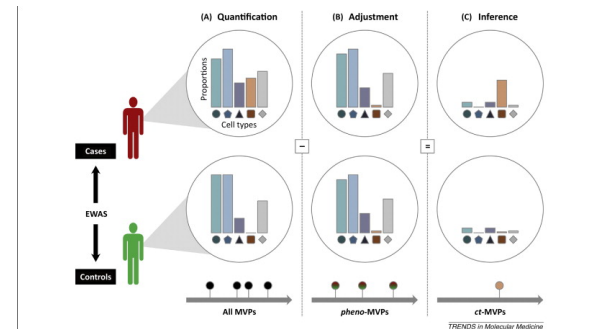
Sequencing



Data Analysis



Associations



# Experiment design

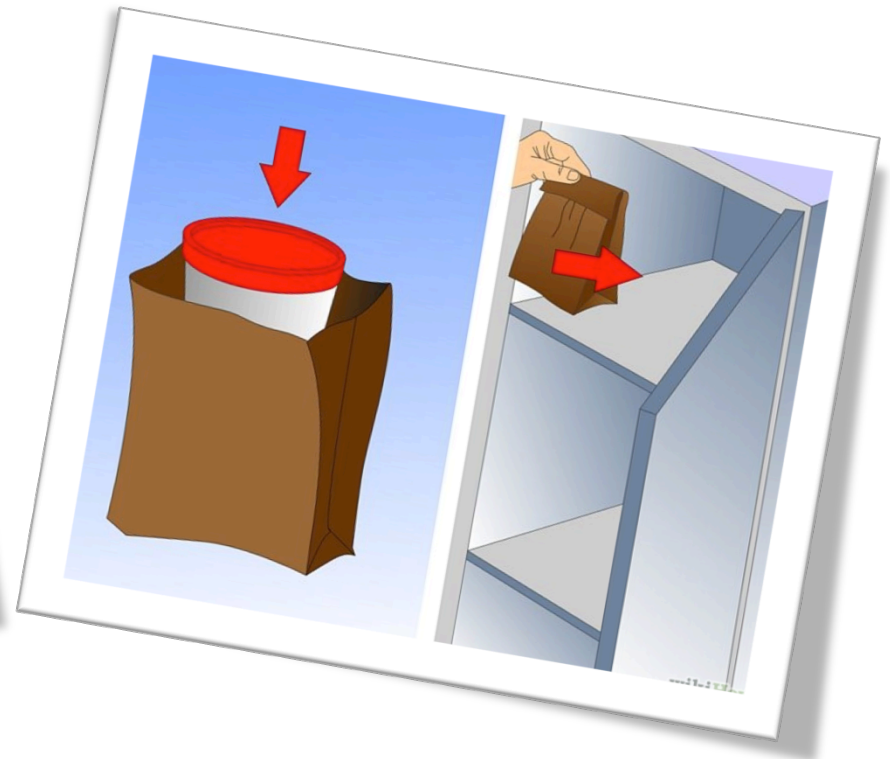
- Sequencing your own microbiome
- What do we want to analyse
  - Intervention
    - What changes the microbiome
    - How would you set up a design
- What information would be useful for an association analysis afterwards

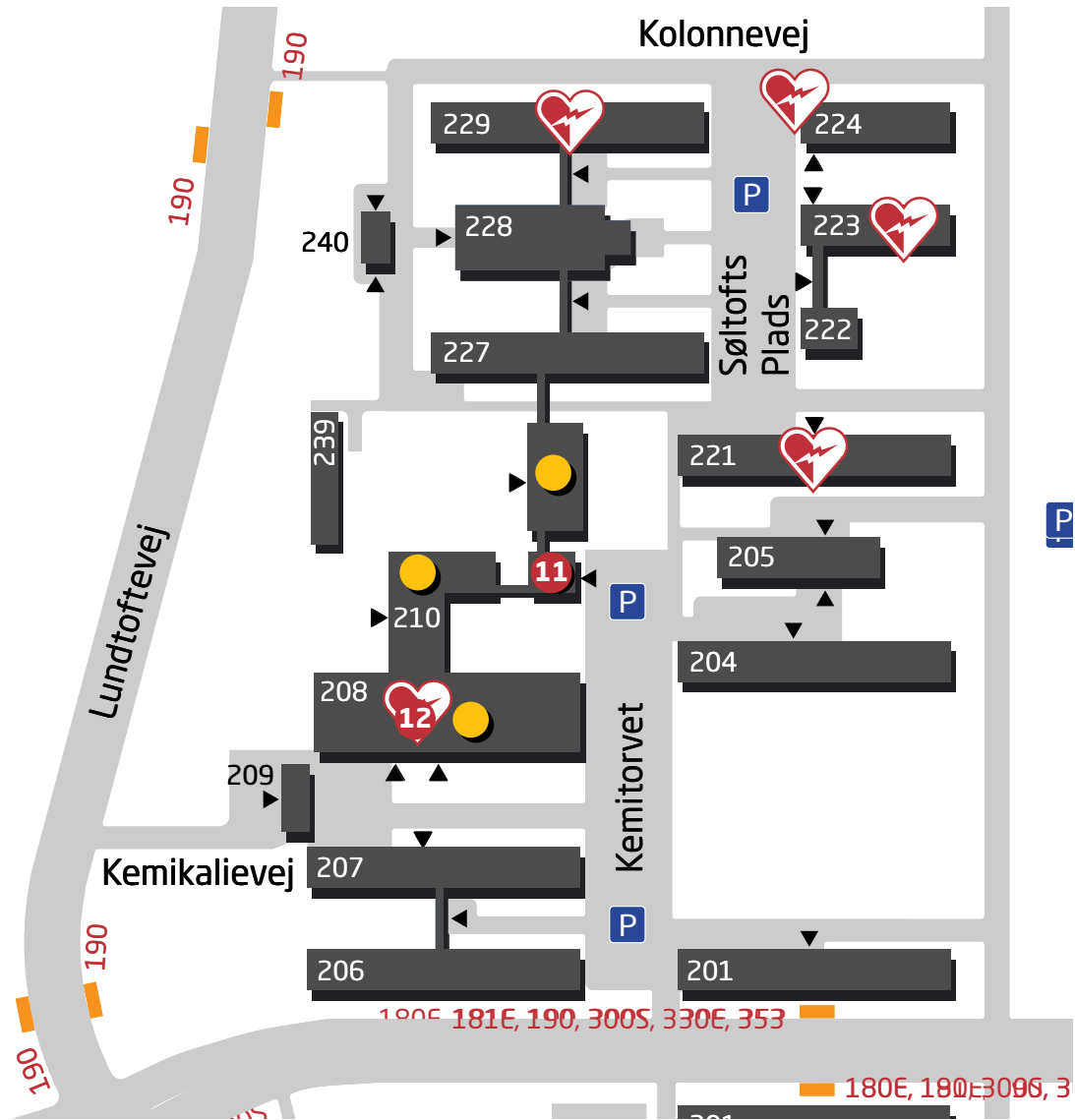
# Sampling

## FLUSHABLE FAECAL COLLECTION SHEET + INSTRUCTIONS



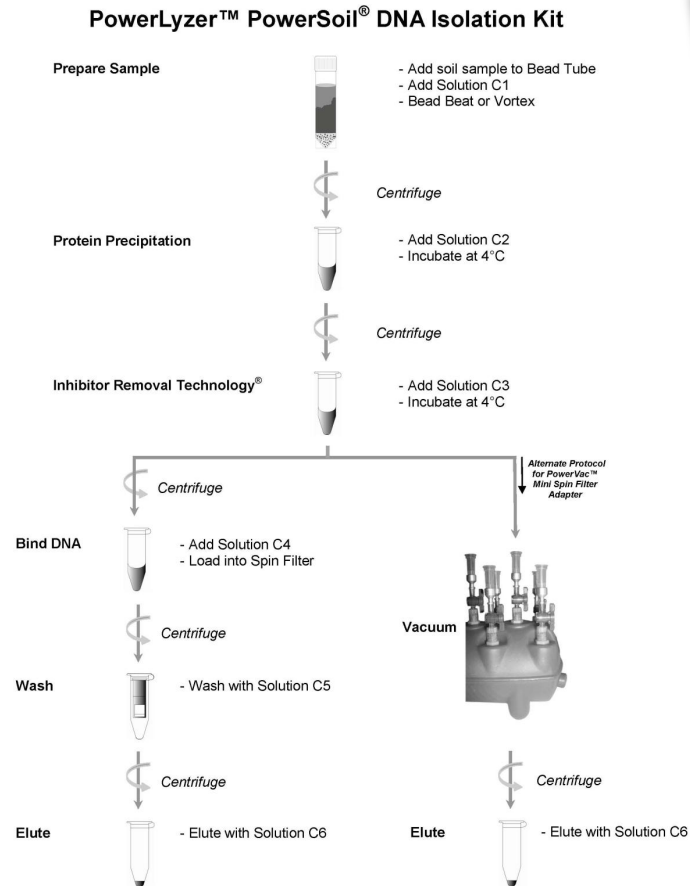
# Sample





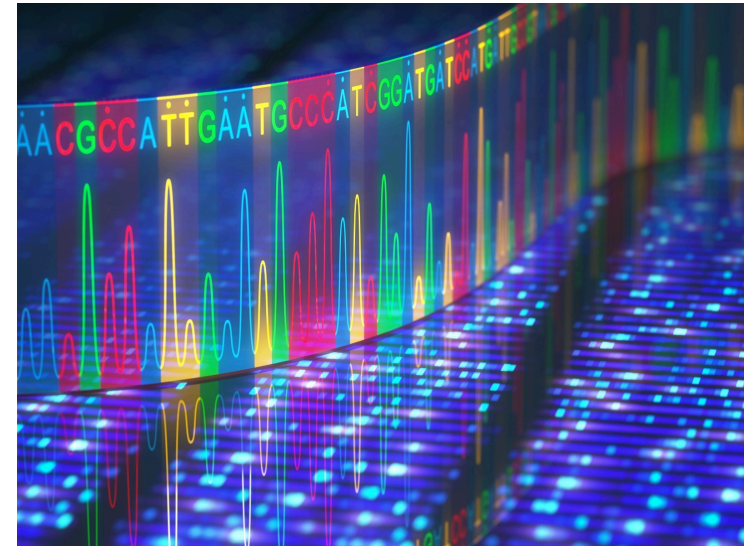
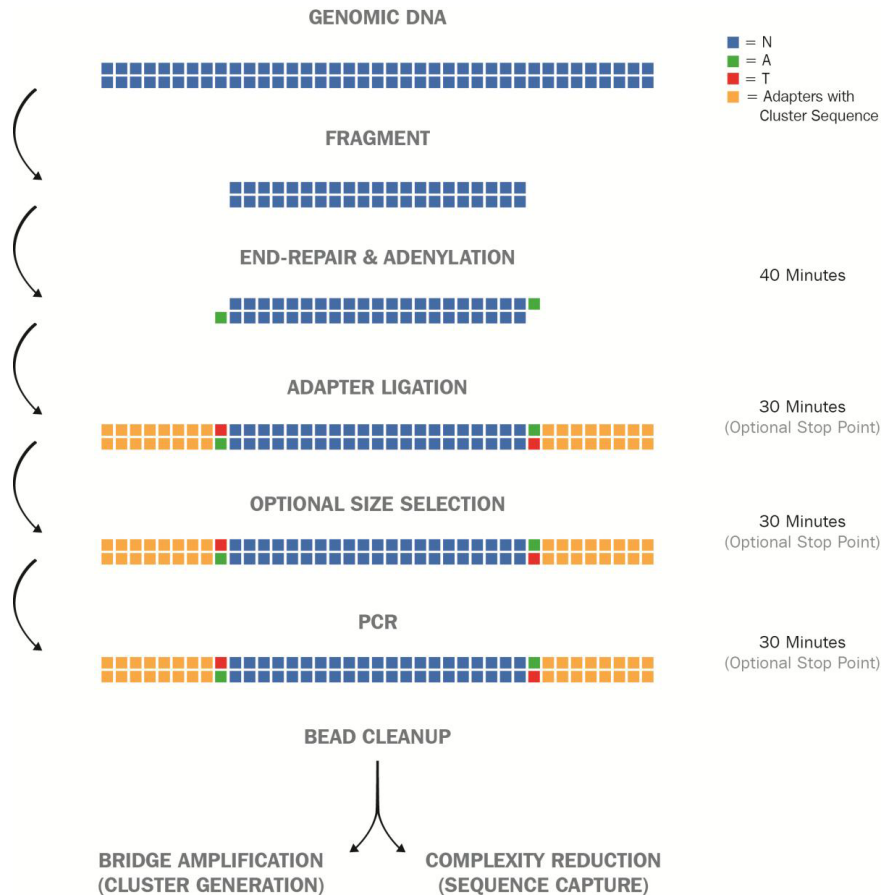
# Wednesday 12 September

## Workflow for purification










# Wednesday 19 September

## Workflow for Library preparation





## Bristol Stool Chart

Type 1		Separate hard lumps, like nuts (hard to pass)
Type 2		Sausage-shaped but lumpy
Type 3		Like a sausage but with cracks on the surface
Type 4		Like a sausage or snake, smooth and soft
Type 5		Soft blobs with clear-cut edges
Type 6		Fluffy pieces with ragged edges, a mushy stool
Type 7		Watery, no solid pieces. <b>Entirely Liquid</b>



## Exercise II

- Prepare a laboratory working protocol
  - Containing all relevant information
  - Easy to follow
  - Information about the samples number ect.

