



DTU Health Technology Bioinformatics

#### **Project groups**

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# **Project Groups**

- Group work, 4 per group, and present results on a poster
- Try to form diverse groups in terms of skills
- Analyse your own data!
- Supplement with existing data (e.g. MetaHIT, SRA...)
- Project data has been sequenced by BGI:
  - Data has arrived
  - You can start right away: run FastQC, do trimming...

# **Project exam**

- Poster exam
- Each group will prepare a poster
- Each group will present the poster for the examiners
- Each group member will be questioned individually about the course objectives and the project (~5-10min)
- 40% final grade

### **Project previous years**



# **Project titles**

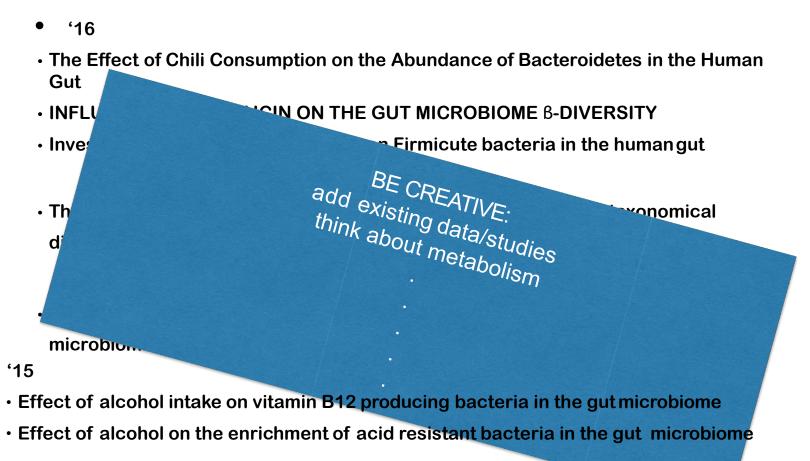
#### **'16**

- The Effect of Chili Consumption on the Abundance of Bacteroidetes in the Human Gut
- INFLUENCE OF CAPSAICIN ON THE GUT MICROBIOME β-DIVERSITY
- Investigating the effect of capsaicin on Firmicute bacteria in the human gut
- The effect of capsaicin on the butyrate production pathway and taxonomical distribution in a gut
  environment
- The interplay between dietary intervention with chili peppers, the human gut microbiome and bacterial resistance

#### **'15**

- Effect of alcohol intake on vitamin B12 producing bacteria in the gut microbiome
- Effect of alcohol on the enrichment of acid resistant bacteria in the gut microbiome
- Investigating the effect of one night of (excessive) alcohol consumption in pushing the microbiome towards having a higher abundance of microbiome markers of T2D, peptic ulcers, cirrhosis, etc.

### **Project titles**



• Investigating the effect of one night of (excessive) alcohol consumption in pushing the microbiome towards having a higher abundance of microbiome markers of T2D, peptic ulcers, cirrhosis, etc.

#### **Group work**

form groups (~4-5 students per group)

- discuss potential projects
- do literature search
- have a look at metadata (sort and organise)
- have a look at barcodes and samples (you might have to revisit the multiplexed fastq file)
- fill out the project information (link on wiki)