

ZIEL-Seminar – online

## Hands-on 16S rRNA gene amplicon analysis

### Program

#### Monday, 12<sup>th</sup> of April, 2021

09:15 – 09:45	Welcome & General introduction (NEUHAUS)
09:45 – 10:45	Theory – from samples to sequences (LAGKOUVARDOS)
10:45 – 11:00	Coffee break
11:00 – 12:00	Theory – Sequencing pitfalls (LAGKOUVARDOS)
12:00 – 13:00	Lunch break
13:00 – 13:15	Organizing „breakout sessions“ in 3 groups (NEUHAUS)
13:15 – 14:30	Hands-on in 3 groups: From OTU tables to diversity (LAGKOUVARDOS / REITMEIER / NEUHAUS)
14:30 – 14:45	Coffee break
14:45 – 15:45	Hands-on in 3 groups: From diversity to taxonomic groups (LAGKOUVARDOS / REITMEIER / NEUHAUS)
15:45 – 16:00	Break
16:00 – 16:30	Open questions / consultations (LAGKOUVARDOS / REITMEIER / NEUHAUS / LIST)

#### Tuesday, 13<sup>th</sup> of April, 2021

09:15 – 10:30	Theory – Comparing samples (LAGKOUVARDOS)
10:30 – 10:45	Coffee break
10:45 – 12:00	Theory – Tables, Trees, Taxonomies (LAGKOUVARDOS)
12:00 – 13:00	Lunch break
13:00 – 14:15	Hands-on in 3 groups: From diversities to clustering (LAGKOUVARDOS / REITMEIER / NEUHAUS)
14:15 – 14:30	Coffee break
14:30 – 15:45	Hands-on in 3 groups: From clustering to correlations (LAGKOUVARDOS / REITMEIER / NEUHAUS)
15:45 – 16:00	Break
16:00 – 16:30	Open questions / consultations (LAGKOUVARDOS / REITMEIER / NEUHAUS / LIST)

## Wednesday, 14<sup>th</sup> of April, 2021

09:15 – 10:30	Theory – V-regions to avoid & Transforming data into pictures (REITMEIER)
10:30 – 10:45	Coffee break
10:45 – 12:00	Theory – The namco tool for machine learning & correlations (LIST)
12:00 – 13:00	Lunch break
13:00 – 14:15	Hands-on in 2 groups: Picture making and namco tool (REITMEIER / LIST)
14:15 – 14:30	Coffee break
14:30 – 15:45	Hands-on in 2 groups: Picture making and namco tool (LIST / REITMEIER)
15:45 – 16:00	Break
16:00 – 16:30	Open questions / consultations (LAGKOUVARDOS / REITMEIER / NEUHAUS / LIST)