



# Mathematical modelling of microbiomes

## Wednesday 14 September 2022

### **Keynote: The tempo and mode of evolution of a strain in the mammalian gut microbiota (10:00-11:00)**

**-Conveners: Isabel Gordo**

time	[id] title	presenter
10:00	[18] The tempo and mode of evolution of a strain in the mammalian gut microbiota	GORDO, Isabel

### **Keynote: Talk Jacopo Grilli (13:45-14:45)**

**-Conveners: Jacopo Grilli**

time	[id] title	presenter
13:45	[40] What is typical in microbial communities? True statistical patterns and wrong macroecological models in microbiome dynamics	GRILLI, Jacopo

# Thursday 15 September 2022

**Keynote: Generating and Dealing With Microbiome Data: The Bad, The Weird, and The Ugly (09:00-10:00)****-Conveners: Nicole Vega**

time	[id] title	presenter
09:00	[41] Generating and Dealing With Microbiome Data: The Bad, The Weird, and The Ugly	VEGA, Nicole

**Keynote: The role of multilevel selection in host microbiome evolution (11:00-12:00)****-Conveners: Simon Van Vliet**

time	[id] title	presenter
11:00	[20] The role of multilevel selection in host microbiome evolution	VAN VLIET, Simon

# Friday 16 September 2022

## **Keynote: Talk Christop Kaleta (09:00-10:00)**

**-Conveners: Christoph Kaleta**

time	[id] title	presenter
09:00	[39] Constraint-based modeling of microbial communities	KALETA, Christoph

## **Keynote: Talk Claude Loverdo (13:00-14:00)**

**-Conveners: Claude Loverdo**

time	[id] title	presenter
13:00	[38] Bacteria in the digestive tract : stochastic models of population dynamics, for inferring colonization probability and immunity-induced clustering; and evolution in a flow.	LOVERDO, Claude

## **Keynote: Grow with the flow - How gut motility and intestinal fluid turnover shape the accumulation of bacterial biomass along the human large intestine (15:00-16:00)**

**-Conveners: Jonas Cremer**

time	[id] title	presenter
15:00	[19] Grow with the flow - How gut motility and intestinal fluid turnover shape the accumulation of bacterial biomass along the human large intestine	CREMER, Jonas