

**KITP Microbial Metabolism
Winter quarter 2021**

**10am – 1pm (PST) every Thursday
Jan 14 – March 18, 2021**

Syllabus & Schedule

Jan 14

Alfred Spormann (Stanford)

Tutorial 1: Fundamentals of Microbial Life, Physical-chemical structure of the environment, rate-yield trade off, fitness and selection

Jan 21

Alfred Spormann (Stanford)

Tutorial 2: Principles of microbial metabolism

Jan 28

Uwe Sauer (ETH Zurich): Central metabolism and growth-lag tradeoff

Feb 4

Bernard Schink (Konstanz): Syntrophic microbial interactions

Feb 11

Andreas Baumler (Davis): Metabolic strategies of pathogens in the human gut

Feb 18

Tom Schmidt (Ann Arbor): Engineering of the gut microbiome

Feb 25

Sebastian Luecker (Nijmegen): Complete nitrification by a single microorganism

Mar 4

Cornelia Welte (Nijmegen): Microbial C1 metabolism

Mar 11

Shelley Copley (Boulder): Evolution of metabolic pathways

Mar 18

Alfred Spormann (Stanford): Metabolic interactions in microbial mats