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