

Day 1, Monday, June 13, 2022 (Carlsberg Academy)

8:15-9:00	Registration
9:00-9:20	Welcome & opening remark Suckjoon Jun
9:20-10:20	Terry Hwa (20'+5') "Sculpting of the gene expression landscape by physiological constraints" Stefan Klump (12'+3') "Resource allocation in bacterial motility" Severin Schink (12'+3') "Quantitative insights into bacterial starvation survival"
session chair: Suckjoon Jun	
10:20-11:05	Tea/Coffee
11:05-12:05	Martin Lercher (12'+3') "Parsimonious allocation of <i>E. coli</i> dry mass governs the enzyme-substrate relationship" Nathalie Balaban (20'+5') "The Impact of the Disrupted Cellular State on Antibiotic Response" Rami Pugatch (12'+3') "A unifying autocatalytic network-based framework for bacterial growth laws"
session chair: Ala Trusina	
12:05-15:00	Lunch + Poster Session 1/ Freeform pioneers session 1
15:00 - 16:20	Petra Levin (20'+5') "The environment shapes the cell" Vahid Shahrezaei (12'+3') "Mechanisms of size control across growth conditions in <i>E. coli</i> and <i>Pombe</i> " Shila Banerjee (20'+5', remote) "Cell morphology as regulator of bacterial fitness and adaptation"
session chair: Anna Ebbensgaard	
16:20-17:00	Tea/Coffee
17:00-18:10	Tanneke den Blaauwen (20'+5') "Quantitative analysis of the timing of midcell localization of division proteins reveals specific roles for endopeptidases PBP4 and PBP7" Marco C Lagomarsino (12'+3') "Out-of-equilibrium behavior of microbial growth/division reveals basic regulatory mechanisms" Willie Donachie (20'+5', remote) "Answering the Nordström Question (and maybe a few others)."
session chair: Mogens Kilstrup	
19:00	Conference dinner for all participants, restaurant Carls Øl & Spisehus

Day 2, Tuesday, June 14, 2022 (Carlsberg Academy)

8:30-9:00	Arrival
9:00-10:25	Matthias Heinemann (20'+5') "From physiology to moving molecules?" Oleg Igoshin (12'+3') "Making cell-fate-decisions: lessons from <i>B. subtilis</i> " Alicia Berkvens (12'+3') "Growth consequences of the inhomogenous organization of the bacterial cytoplasm" Seungeun Oh (20'+5') "Quantitative single-cell physiology of growth and size regulation using label-free microscopy"
session chair: Jakob Frimodt-Møller	
10:25-11:00	Tea/Coffee
11:00-12:25	Yuichi Wakamoto (20'+5') "Raman-omics correspondence reveals homeostatic core and stoichiometrically-balanced dynamical groups inside cells" Michael Sørensen (12'+3') "The degradation rate of ribosomes during stationary phase depends on the type of missing nutrient" Yusuke Himeoka (12'+3') "Emergence of growth and dormancy from a kinetic model of the <i>Escherichia coli</i> central carbon metabolism" Johan Elf (20'+5') "Coordination of replication initiation to growth in <i>Escherichia coli</i> " Group photo; Lunch and Poster Session 2/ Freeform pioneers session 2
session chair: Kim Sneppen	
12:25-15:00	Søren Molin (20'+5') "Investigations of microbial physiology in adapting bacterial populations involved in airway infections" Sven van Teffelen (12'+3') "Regulation of mass density in rod-shaped bacteria" Gene-Wei Li (20'+5') "Predictability and Unpredictability of Expression-Fitness Relationships"
15:00 - 16:10	
session chair: Namiko Mitarai	
16:10-16:40	Tea/Coffee
16:40-18:00	Susan Gottesman (20'+5') "Coming and Going: <i>E. coli</i> circuitry for adjusting to and recovering from stress" Thomas Julou (12'+3') "Growth-rate controls the sensitivity of gene regulatory circuits" Morten Nørholm (12'+3') "Molecular mechanisms in the evolution of nutrient-limited bacterial colonies" Megan Bergkessel (12'+3') "Regulation of protein synthesis during growth arrest"
session chair: Sine Lo Svenningsen	
18:00-20:00	Late-night poster session - reception style buffet - the bar is open!
18:00-20:00	Pioneers session (format TBD): special on-site guests + Steven Cooper Willie Donachie Jim Friesen Phil Hanawalt Charles Helmstetter Roberto Kolter Elio Schaechter

Day 3, Wednesday, June 15, 2022 (Carlsberg Academy)

8:30-9:00	Arrival
9:00-10:30	Tsutomu Katayama (20'+5', remote) "Dynamic mechanisms constituting regulation for the replication initiator DnaA protein in <i>Escherichia coli</i> " Godefroid Charbon (12'+3') "Arresting chromosome replication upon energy starvation in <i>Escherichia coli</i> " Mareike Berger (12'+3') "Robust replication initiation from coupled homeostatic mechanisms" Steen Pedersen (20'+5') "The genetic code, in addition to encode the amino acids, also encodes signals that modify gene expression by affecting mRNA half-life and premature transcription termination."
session chair: Flemming Hansen	
10:30-11:00	Tea/Coffee
11:00-12:00	Teuta Piilzota (20'+5') "The proton motive force determines <i>Escherichia coli</i> 's robustness to extracellular pH" Claudia Iglar (12'+3') "Control of phage lysis timing through host cell physiology" Hanne Ingmer (12'+3') "Transduction in shaping bacterial genomes"
session chair: Tove Atlung	
12:00-13:45	Lunch
13:45 - 15:10	Jens Nielsen (20'+5') "Systems biology of yeast metabolism" Karin Mitosch (12'+3') "Isotope tracing reveals metabolic activities of <i>Salmonella</i> during intracellular infection" Einat Segev (12'+3', remote) "Lag Phase Shortening in Bacteria" Roberto Kolter (20'+5', remote) "Thoughts on the Physiology of Natural Bacterial Populations."
session chair: Frank Bruggeman	
15:10-15:40	Tea/Coffee
15:40-16:50	Akos Kovács (20'+5') "Multi-species biofilm and the interaction within" Kathryn Turnbull (12'+3') "Structural and function studies of bacterial ABCF ribosome associated resistance factors" Stephen Cooper (20'+5', remote) "Three Critical Manifestos for the Cell Cycle: On Synchronization, on G0, on Gene Expression"
session chair: Arieh Zaritsky	
16:50-17:00	Closing