



4th Zoom on Griffith's legacy: Today's models, approaches and concepts

June 01–02, 2023 3–6 pm London time



June 01, 2023

1st Session

3:00pm	Introduction Kerstin Stingl & Hank Seifert
3:05pm	Can codon usage preferences determine the success and the orientation of horizontal gene transfers? Stéphanie Bedhomme (Montpellier, France)
3:20pm	Gene exchange at the border: the long and short of it Jonathan Lombardino (Briana Burton Lab, Madison, WI, USA)
3:35pm	Flash talk: The induction of natural competence adapts staphylococcal metabolism to infection Julia García-Fernández (Daniel Lopez lab, Madrid, Spain)
3:40pm	Mini-break
3:45pm	Programming bacteria for multiplexed DNA detection Yu-Yu Chen (Ophelia Venturelli Lab, Madison, WI, USA)
4:00pm	Gene transfer between <i>Bacillus</i> species: Whole genome transfer rates and characteristics Isabel Rathmann (Berenike Maier Lab, Köln, Germany)
4:15pm	Flash talk: Single-strand DNA origins modulate plasmid natural transformation efficiency in <i>Vibrio natriegens</i> B Thuronyi (Williamstown, MA, USA)
4:20pm	Coffee break / Room with speakers 1st session

2nd Session

4:40pm	Characterizing the mechanism of DNA-binding by type IV pili Nick Christman (Ankur Dalia Lab, Bloomington, IN, USA)
4:55pm	A novel pilus protein increases the probability for DNA uptake in <i>Campylobacter jejuni</i> Julia Golz (Kerstin Stingl Lab, Berlin, Germany)
5:10pm	Flash talk: Role of minor pilin FimT in natural transformation Sebastian Braus (Manuela Hospenthal Lab, Zürich, Switzerland)
5:15pm	Mini-break
5:20pm	Uptake of environmental DNA in <i>Bacillus subtilis</i> occurs all over the cell surface through a dynamic pilus structure Alexandra Kilb (Peter Graumann lab, Marburg, Germany)
5:35pm	The complex regulation of competence development in <i>Staphylococcus aureus</i> and the importance of oxygen Nicolas Mirouze (Paris, France)
5:50pm	Closing remarks / Room with speakers 2nd session

June 02, 2023

3rd Session

3:00pm	Reception 2nd day Hank Seifert & Kerstin Stingl
3:05pm	Fever-like temperature bursts promote competence development via an HtrA-dependent pathway in <i>Streptococcus pneumoniae</i> Mathieu Bergé (Patrice Polard Lab, Toulouse, France)
3:20pm	The ComRS-SigX pathway regulates natural transformation in <i>Streptococcus ferus</i> Britta Rued (Michael Federle Lab, Chicago, IL, USA)
3:35pm	Flash talk: HP1021 atypical response regulator controls DNA uptake by <i>H. pylori</i> Anna Pawlik (Wroclaw, Poland)
3:40pm	Flash talk: ComM in <i>H. pylori</i> Pablo Radicella (Paris, France)
3:45pm	Mini-break
3:50pm	<i>Neisseria gonorrhoeae</i> maintains transformation competence Hank S. Seifert (Chicago, IL, USA)
4:05pm	Studies on the DNA uptake sequence of <i>Neisseria gonorrhoeae</i> Darryl Hill (Bristol, UK)
4:20pm	Coffee break / Room with speakers 3rd session

4th Session

4:40pm	Causes and effects of the evolution of natural transformation in bacteria Fanny Mazzamurro (Eduardo Rocha Lab, Paris, France)
4:55pm	Transformation inhibition through prophage-driven alteration of a non-coding RNA Min Jung Kwun (Nicholas Croucher Lab, London, UK)
5:10pm	Flash talk: Transformation frequency variation along the <i>Haemophilus influenzae</i> chromosome Josh Mell (Philadelphia, PA, USA)
5:15pm	Mini-break
5:20pm	Bacterial transformation: A tale of species Rubén Torres (Juan C. Alonso lab, Madrid, Spain)
5:35pm	From Ions to Genes: Inducers and Inhibitors of natural transformation in <i>Acinetobacter baumannii</i> Jason Baby Chirakadavil (Xavier Charpentier Lab, Villeurbanne, France)
5:50pm	Closing remarks / Room with speakers 4th session