

Session Program

23-25 Sept 2020

**Dynamics of biological systems: from viruses
to populations**

Afternoon Session

Wednesday 23 September

14:00

Afternoon Session: Bacteria

Session | Location: Jagiellonian University

14:00–14:40

Drug interactions between translation-inhibiting antibiotics

Speaker

Tobias Bollenbach

14:40–15:00

Ribosome traffic jams underlie suppressive drug interactions

Speaker

Bor Kavčič

15:00–15:15

To make things simpler: classical Powell's ideas for describing bacterial population revisited.

Speaker

Marcin Rubin

15:15–15:30

High-throughput screening and selection of electrogenic microbial communities using single chamber microbial fuel cells based on 96-well plate array

Speaker

Lukasz Szydlowski

15:30–15:35

Coffee Break

15:35–16:05

Eco-evolutionary interactions in polymicrobial infections

Speaker

Marjon de Vos

16:05–16:25

Building clone-consistent ecosystem models

Speaker

Gerrit Ansmann

16:25–16:55

Genomic epidemiology, sex & evolution of bacterial sugars

Speaker

Dr Rafał Mostowy

16:55

17:00

17:30

Afternoon Session: Mindfulness for Academics

Session | Location: Jagiellonian University

Thursday 24 September

14:00

Afternoon Session: Cells II

Session | **Location:** Jagiellonian University

14:00–14:40

Dynamics of cell migration process

Speaker

Zenon Rajfur

14:40–14:55

Chemotaxis impact on a Turing reaction-diffusion system

Speaker

Camile Fraga Delfino Kunz

14:55–15:25

How cell growth, division, and stochastic gene expression contribute to the protein noise floor

Speaker

Anna Ochab-Marcinek

15:25–15:55

The many ends of a never-ending story: Deriving the Drosophila gap gene system by ab-initio optimization

Speaker

Thomas Sokolowski

15:55

16:00

17:00

Afternoon Session: Social Event

Session | **Location:** Jagiellonian University

Friday 25 September

14:00

Afternoon Session: Medical Biology

Session | **Location:** Jagiellonian University

14:00–14:40

Predictive models of bacterial response and the evolution of resistance to antibiotics

Speaker

Bartłomiej Waclaw

14:40–15:00

Mathematical Investigation of Early Atherosclerosis

Speaker

Dr Debasmita Mukherjee

15:00–15:20

Challenges in the Boron Neutron Capture Therapy

Speaker

Michał Silarski

15:20–15:30

Coffee Break

15:30–15:45

Bio-electric phenomena during growth and regeneration

Speaker

Jan Jedryszek

15:45–16:15

Structural and Functional Genomics of the Human Gut Microbiome

Speaker

Tomasz Kościółek

16:15–16:55

[CANCELLED] Coagulation cascade as a dynamic biological system

Speaker

Prof. Ewa Stępień

16:55