

FORTHEM Cell Signaling Winter School 2022 7-9th December

Cellular Signaling - Dynamic processes within living cells.

Johannes Gutenberg University/ Hybrid Event

Schedule

Wednesday 7th December

- Arrive in Mainz
- Possible informal meeting at the Christmas markets

Thursday 8th December

- Welcome and Introduction 9:00

Session 1: Signaling across Membranes

9:15-10:05: Ismael Mingarro (Valencia) + Student

10:10-11:00: Dirk Schneider (Mainz) + Student

- Coffee Break 11:00-11:30

11:30-12:20: Varpu Marjomaki + Student (Jyv)

- Lunch Break and on-site poster session 12:20-14:30

Session 2. Cell signaling in development and disease

14:30-15:20 Vivianne Barra (Palermo) + Student

15:25-16:15 Lotta-Riina Sundberg + *Student* (Jyv)

- Quick Break 16:15-16:25

16:25-16:55 Stephan Collins (Dijon)

- 17:00 Students Quizz/Kahoot Day 1

- 19:00 Speakers Dinner: Stadtbalkon (<https://stadtbalkon-mainz.eatbu.com>)

Thursday 9th December

Session 3. Signaling concepts in microorganisms

9:15-10:05: Valeria Alduina (Palermo) + Student

10:10-11:00: Eckhard Thines (Mainz) + Student

- Coffee Break 11:00-11:30

11:30-12:00: Alessandro Presentato (Palermo)

- Lunch Break 12:00-13:30

Session 4. Stress-related signaling/Toxicity

13:30-14:20 Lara Manyes (Valencia) + Student

14:25-15:40 Benoit Poinssot and Mathieu Gayral (Dijon) + Student

- 15:45 Students Quizz/Kahoot Day 2

Depart

Talk Titles

Session 1: Signaling across Membranes

Ismael Mingarro (Valencia) + Student

Transmembrane interactions, a matter of life and death.

Dirk Schneider (Mainz) + Student

Dynamics of bacterial inner membrane systems

Varpu Marjomaki (Jyv) + Student

How do non-enveloped enteroviruses enter and infect cells

What factors may affect virus stability and genome release inside and outside cells

Session 2. Cell signaling in development and disease

Vivianne Barra (P) + Student

RNA editing: a star of RNA epigenetics and a promising new therapeutic strategy for Cystic Fibrosis

Lotta-Riina Sundberg (Jyv) + Student

The role of CRISPR-Cas in nature: bacterial adaptive immune system

How environmental conditions shape phage infection dynamics within the host cells

Stephan Collins (D) NO STUDENT

Signalling in the developing mouse brain

Session 3. Signaling concepts in microorganisms

Valeria Alduina (Palermo) + Student

DNA cytosine methylation as a mechanism of control on differentiation of the Gram-positive soil bacterium *Streptomyces coelicolor* A3(2)

Eckhard Thines (Mainz) + Student

Signaling in filamentous fungi with special emphasis to secondary metabolite production

Alessandro Presentato (Palermo)

Metalloids' processing by Actinobacteria: cell resistance/toxicity mechanisms and

synthesis of biogenic metal(loid)-based nanostructures

Session 4. Stress-related signaling/Toxicity

Lara Manyes (Valencia) + Student

Transcriptomic study about the role of pumpkin and fermented whey against AFB1 and OTA toxicity using Jurkat cell line

Benoit Poinssot and Mathieu Gayral (Dijon) + Student (3 People to share session)

Investigating Endoplasmic Reticulum stress-related signaling in grapevine immunity associated with LysM Receptor Kinases (VvLYKs)