

COURSE ON ADVANCED BACTERIOLOGY

23 MARCH - 18 MAY 2021

Lectures via Zoom.

Course is eligible for all doctoral, medical and biomedical students. The participants should have earlier taken a basic course on bacteriology and/or have some other knowledge in bacteriology.

2 ECTS: lectures + an essay from selected topics.

1 ECTS: lectures only.

PROGRAMME

23.3. 14:00- 16:00	Introduction of the course. Bacteria pros and cons, Pentti Huovinen, University of Turku Diet, lifestyle and microbiota: experiences from clinical studies, Kirsi Laitinen, Kati Mekkala, Univ.Turku
30.3. 14:00 - 16:00	Microbiome - Brain- Gut axis, Eveliina Munukka (Biocodex, Univ. Turku) & Anna Aatsinki, Univ. Turku Statistical and machine learning aspects in microbiome research, Leo Lahti, Univ. Turku
6.4. 15:00 - 16:00	Whole genome sequencing as a tool to study bacterial genomes, Teemu Kallonen, Turku University Hospital
8.4. 14:00 - 16:00	Modern bacterial ecology: metagenomics and single cell genomics, Manu Tamminen, Univ. Turku Experimental evolution with bacterial model communities, Teppo Hiltunen, Univ.Turku
13.4. 15:00 - 16:00	Global impact of antimicrobial resistance, Jaana Vuopio, Univ. Turku
15.4. 15:00 - 16:00	Epidemiology and mechanisms of antimicrobial resistance in enteric pathogenic bacteria, Antti Hakanen, Turku University Hospital
20.4. 15:00 - 16:00	Lyme borreliosis - a comprehensive approach, Jukka Hytönen, Univ. urku
22.4. 15:00 - 16:00	<i>Bordetella pertussis</i> in Europe: from disease burden to molecular epidemiology, Qiushui He, Univ. Turku
27.4. 15:00 - 16:00	Oral bacteria, immune response, and treatment response prediction, Ulvi Gursoy, Univ. Turku
29.4. 15:00 - 16:00	Bacterial adhesion in the oral cavity, Vuokko Loimaranta, Univ.Turku
4.5. 15:00 - 16:00	Stress management by bacterial LEA proteins, Riikka Ihalin, Univ. Turku
6.5. 15:00 - 16:00	Secretion systems in Gram-negative bacteria, Anton Zavialov, Univ. Turku
11.5. 15:00 - 16:00	Toxin-targeted drug modalities, Arto Pulliainen, Univ. Turku
13.5. 15:00 - 16:00	<i>Streptomyces</i> cell factories for production of antibiotics, Mikko Metsä-Ketelä, Univ. Turku
18.5. 15:00 - 16:00	Bacteria as the Workhorses of Biotechnology, Urpo Lamminmäki, Univ. Turku

REGISTRATION:

<https://konsta.utu.fi/Default.aspx?tabid=88&tap=10414>

Contact for more info:

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