
Program

Tuesday 07.07.2015

16.00 – 20.00	Registration and poster mounting (Session I, II, III, VI and LBA)
17.00 – 21.00	Satellite events (to be held at the University of Gdańsk Library)

Wednesday 08.07.2015

9.00 – 10.00	Conference Opening and Keynote Lecture
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Opening Lecture:

The life and scientific activity of Professor Rudolf Stefan Weigl
Prof. dr hab. Wiesław Barabasz

Keynote Lecture:

Physiological proteomics of Gram-positive model bacteria
Prof. Michael Hecker

10.00 – 11.15	Special interest session: American Society for Microbiology's Science Policy Forum
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Joanna Karczewska-Golec, ASM Young Ambassador to Poland, Member of the Young Leaders Circle at ASM, Chair

Discussion Panel

11.15 – 11.45	coffee break
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11.45 – 13.45	Session I. Bacteriophages and plasmids
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Prof. dr. hab. Grzegorz Węgrzyn, Chair

1. New ways to combat pathogenic bacteria – bacteriophage lytic enzymes as an alternative to antibiotic therapy

Magdalena Plotka, Agnieszka Morzywolek, Anna-Karina Kaczorowska, Tadeusz Kaczorowski

2. From sewage-treatment plants to phage therapy: step-by-step phage analysis and application

Piotr Golec

3. Staphylococcal Twort-like phages encode a homolog of bacterial virulence determinants. Can we use these phages for therapeutic purposes?

Aleksandra Glowacka, Magdalena L. Ulatowska, Małgorzata B. Łobocka

4. Construction and characterization of T4-like phages lacking head proteins gp24 or gpSoc

Joanna Majewska, Katarzyna Hodyra-Stefaniak, Weronika Beta, Zuzanna Kaźmierczak, Dorota Lecion, Anna Klopot, Marek Harhala, Paulina Miernikiewicz, Mateusz Mąkosa, Patryk Waśko, Karolina Wojtyna, Andrzej Górski, Krystyna Dąbrowska

5. Diversity of bacteriophages in urban sewage
Agata Jurczak-Kurek, Borys Wróbel

6. Diversity of centromere-like *parS* elements within *repABC* cassettes of *Rhizobium leguminosarum* bv. *trifolii* TA1

Piotr Koper, Kamil Źebracki, Małgorzata Marczak, Anna Skorupska, Andrzej Mazur

7. Role of the *exo-xis* region in development of bacterial viruses from the family of lambdoid phages

Sylwia Bloch, Bożena Nejman-Faleńczyk, Aleksandra Dydecka, Katarzyna Licznerska, Agnieszka Felczykowska, Gracja Topka, Alicja Węgrzyn, Grzegorz Węgrzyn

13.45 – 14.45

lunch

14.45 – 16.45

Session II. Regulation of gene expression in Prokaryotes

Prof. dr hab. E. Katarzyna Jagusztyn-Krynicka, Chair

1. Genetic evidence of interrelated functions for ppGpp, transcription factors and chaperones
Mike Cashel

2. Computational and functional analysis of a toxin-antitoxin system of *Staphylococcus pseudintermedius*

Monika Janczak, Michał Bukowski, Grzegorz Dubin, Adam Dubin, Benedykt Władyka

3. ExoY, a nucleotidyl cyclase toxin from *Pseudomonas aeruginosa*

Dorothée Raoux-Barbot, Cosmin Saveanu, Louis Renault, Abdelkader Namane, Vasily Ogryzko, Daniel Ladant, Undine Mechold

4. Direct and indirect regulation of *kdgM2* gene expression by the OmpR two-component response regulator in *Yersinia enterocolitica*

Marta Nieckarz, Adrianna Raczkowska, Karolina Skorek, Ewa Stefańska, Iga Milczewska, Dorota Stosio, Michał Dadlez, Katarzyna Brzostek

5. Transcriptomic description of a classic model of carbon catabolic repression in *Streptomyces coelicolor*

Alba Romero, Romina Rodríguez-Sanoja, Daniel Segura, Sergio Sánchez

6. Isothiocyanates reduce toxicity of enterohemorrhagic *Escherichia coli* (EHEC) O157:H7 strains

Dariusz Nowicki, Olga Rodzik, Sylwia Martyn, Wioletta Kobiela, Grzegorz Węgrzyn, Anna Herman-Antosiewicz, Agnieszka Szalewska-Pałasz

16.45 – 17.00

coffee break

17.00 – 19.00

Session III. DNA replication, recombination and repair

Prof. dr. hab. Jarosław Dziadek, Chair

1. Viruses, viroids and vectors
Karl Maramorosch

2. Initiation of *Helicobacter pylori* chromosome replication as a model to study bacterial oriosome assembly on bipartite origins

Rafał Donczew, Paweł Jaworski, Małgorzata Nowaczyk, Marcelina Klajner, Christoph Weigel, Jolanta Zakrzewska-Czerwińska, Anna Zawilak-Pawlak

3. Identification of a putative chromosomal replication origin from *Bdellovibrio bacteriovorus* and its interaction with the initiator protein DnaA

Łukasz Makowski, Rafał Donczew, Christoph Weigel, Anna Zawilak-Pawlak, Jolanta Zakrzewska-Czerwińska

4. The interplay between the acetate overflow pathway and the initiation of DNA replication in *Escherichia coli* cells

Joanna Tymecka-Mulik, Lidia Gaffke, Ewelina Czuba, Katarzyna Kozłowska, Lidia Boss, Monika Maciąg-Dorszyńska, Grzegorz Węgrzyn, Monika Glinkowska

5. The lack of Hfq protein affects DNA replication process in *Escherichia coli*
Grzegorz Marek Cech, Dominika Kamrowska, Véronique Arluison Agnieszka Szalewska-Palasz, Grzegorz Węgrzyn

20.00

Welcome Reception

Thursday 09.07.2015

9.00 – 11.00

Session IV. Biotechnology

Prof. dr. hab. Anna Skorupska, Chair

Prof. dr. hab. Jan Fiedurek, Chair

1. Alcoholic fermentation: problems and perspectives

Andriy A. Sibirny, Marta Semkiw, Olena Kurylenko, Justyna Ruchala, Kostyantyn Dmytruk

2. New methods for ethanol, methanol and formaldehyde determination in environment and food products
Vladimir Sibirny

3. Enhanced production of polygalacturonase by solid state fermentation – process conditions, the enzyme isolation and partial characterization
Halina Zaslona, Anna Trusek-Hołownia

4. Molecular identification of *Paramecium bursaria* syngens and studies on geographic distribution using mitochondrial cytochrome c oxidase subunit I (COI) as marker
Patrycja Zagata, Magdalena Greczek-Stachura

5. Exposition of influenza A matrix protein 1 on the surface of recombinant *Bacillus subtilis* endospores

Tomasz Łega, Nina Ciosek, Paulina Pranszke, Bogusław Szewczyk, Dawid Nidzworski

6. Influence of the silver nanoparticles on fungal community in different environments

Katarzyna Pietrzak, Beata Gutarowska

11.00 – 13.00

Poster Session (I, II, III, VI and LBA)

13.00 – 14.30

Sponsor Lectures

14.30 – 15.30

lunch

Taking down posters from Session I, II, III, VI and LBA

Mounting posters for Session IV, V and VII

15.30 – 19.00

Gdańsk sightseeing with a guide (optional)

Friday 10.07.2015

9.00 – 11.00

Session V. Clinical microbiology and immunology

Prof. dr. hab. Antoni Różalski, Chair

1. Comparison of antibiotic resistance and virulence between biofilm-producing and non-producing clinical isolates of *Enterococcus faecium*

Anna Sieńko, Piotr Wieczorek, Piotr Majewski, Dominika Ojdana, Dorota Olszańska, Elżbieta Tryniszewska

2. Biological activity studies of surfactin – biosurfactant produced by *Bacillus subtilis*
Emilia Siwak

3. Evaluating the immunogenicity and protective efficacy of PLGA (85:15) nanoparticulate *Bruvella* vaccine containing rL7/L12 protein of *Bruvella abortus*
Damini Singha, Rakesh Bhatnagar

4. *Klebsiella pneumoniae*: characteristics of carbapenem resistance and virulence factors
Esra Deniz Candan, Nilüfer Aksöz

5. The surface expression of CD25 (IL-2R) as a molecular marker of NK cell's cytotoxic activity
Karolina Rudnicka, Agnieszka Matusiak, Maria Walencka, Eliza Miszczyk, Adrian Gajewski, Magdalena Chmiela

6. Multiresistant *Elizabethkingia meningoseptica* infections in tertiary care
Inam Danish Khan

11.00 – 11.30

coffee break

11.30 – 13.30

Session VI. Environmental microbiology

Prof. dr. hab. Wanda Małek, Chair

Prof. dr. hab. Wiesław Barabasz, Chair

1. Role of microorganisms in bioremediation of oil polluted soils
Valentyn S. Pidgorskyi, Taisia M. Nogina

2. Biological diversity of the Black Sea deepwater soil and surface water bacteria
V. O. Ivanytsya, O. Y. Bobrova, A. M. Ostapchuk, J. B. Kristoffersen, N. V. Korotaeva, G. V. Lisyutin, M. M. Chaban, M. Shtennikov

3. Integrons in the marine environment
Ewa Kotlarska, Aneta Łuczkiewicz, Artur Burzyński

4. Confronting the challenges of the brackish water environment – bacterial adaptations to osmotic stress analyzed by OMIC approaches
Joanna Karczewska-Golec, Piotr Golec, Stephanie Markert, Joerg Bernhardt, Maja Kochanowska-Łyżeń, Thomas Schweder, Agnieszka Szalewska-Łałasz

5. Comparative transcriptome analysis of wood decay fungus *Cerrena unicolor*
Grzegorz Janusz, Andrzej Mazur, Jerzy Wielbo, Piotr Koper, Kamil Źebracki

6. Partial characterization of a highly divergent hantavirus isolated from the European mole (*Talpa europaea*) in Poland
Se Hun Gu, Janusz Hejduk, Janusz Markowski, Marcin Markowski, Paweł P. Liberski, Richard Yanagihara

13.30 – 14.30

lunch

14.30 – 16.30

Poster Session (Session IV, V and VII)

16.30 – 18.30

Session VII. New methods in microbiology

Prof. dr. hab. Adam Jaworski, Chair

1. New molecular method for typing clinical strains of *Streptococcus Anginosus* Group

Katarzyna Obszańska, Izabela Kern-Zdanowicz, Izabela Sitkiewicz

2. Rapid culturing, enumeration and analysis of bacterial cells using droplet microfluidics

Ott Scheler, Tomasz S. Kaminski, Michal Horka, Artur Ruszczak, Piotr Garstecki

3. Use of k -Nearest Neighbors algorithm in viral host prediction
Wojciech Galan, Maciej Bąk

4. Can blue light be used against *Pseudomonas aeruginosa*?

Grzegorz Fila, Mariusz Grinholt

5. A rapid qualitative assay for detection of *Clostridium perfringens* from canned food products

Gayatri Ashwinkumar Dave

6. Enhancement of oil pollution bioremediation by electric field application
Oksana Aliieva, Olena Matvyeyeva

7. Microbiocenosis in different type of manures and hygienisation methods
Katarzyna Matusiak, Beata Gutarowska, Sebastian Borowski

18.30 – 19.00

Conference closing

20.00

Get Together Party (optional)

Saturday 11.07.2015

9.00 – 17.00

Trip to the Castle of Teutonic Knights in Malbork (optional)