BACELL2023-KOBE Programme

20 November

13:00- Registration (KOBE Chamber of Commerce and Industry 2F Event Hall)

18:00- Welcome reception (Ariston Hotel 2F)

21 November

09:00-10:15 Oral session 1: Antimicrobials and toxins (Chair: Shu Ishikawa) (KOBE Chamber of Commerce and Industry 3F Lecture Hall)

09:00-09:15	O-1	**Yoshikazu Kawai**	Sydney U	AU	**On the mechanism of lysis triggered by perturbations of cell wall synthesis in Bacillus subtilis**
09:15-09:30	O-2	**Jiri Pospisil**	Czech Academy of Sciences	CZ	**ToxiCITY of Bacillus subtilis**
09:30-09:45	O-3	**Sanako Yoshida**	Kobe U	JP	**Development and application of a novel bacteriocin, pallidocyclin, of a thermophilic bacterium Aeribacillus pallidus PI8**
09:45-10:00	O-4	**Katarzyna Mickiewicz**	Newcastle U	UK	**B. subtilis as a model for studying host-pathogen interactions**
10:00-10:15	O-5	**Monika Ehling-Schulz**	U Veterinary Medicine	AT	**ABC of CesCD: A bifunctional ABC transporter directing cereulide toxin synthesis in emetic Bacillus cereus**

10:15-10:45 Coffee break (KOBE Chamber of Commerce and Industry 2F Event Hall)

10:45-12:00 Oral session 2: Evolution and mobile genetic elements/Microbial interaction (Chair: Nozomu Obana)

10:45-11:00	O-6	**Anna Dragoš**	U Ljubljana	SI	**Multilevel control of Bacillus subtilis by SPbetaviruses – physiology, ecology and evolution perspective**
11:00-11:15	O-7	**Romain Briandet**	INRAE Jouy	FR	**Bacillus velezensis kin consortia able to form a positive biofilm with antagonistic activity against pathogenic bacteria**
11:15-11:30	O-8	**Philippe Jacques**	U Liege	BE	**Competition to commensalism, Trichoderma harzianum and Bacillus velezensis interaction is strongly cultural conditions dependent**
11:30-11:45	O-9	**Briana Burton**	U Wisconsin-Madison	USA	**Molecular determinants of mosaic genomes resulting from interspecies natural transformation**
11:45-12:00	O-10	**Ines Mandić Mulec**	U Ljubljana	SI	**Harnessing Bacterial Sociality: Understanding Bacillus subtilis - Pathogen Interactions for Effective Probiotic Applications**

12:00-13:00 Lunch (Ariston Hotel 2F)

13:00-14:15 Rapid fire (61 Posters, 70 sec for each) (Chair: Saori Kosono)

14:15-15:30 Oral session 3: Biotechnology 1 (Chair: Ritsuko Kuwana)

14:15-14:30	O-11	**Biwen Wang**	U Amsterdam	NL	**Inactivation of the conserved protease LonA increases xylanase production in Bacillus subtilis**
14:30-14:45	O-12	**Sandra Maaß**	Greifswald	DE	**From the Outer Space to the Inner Cell: Global Absolute Quantification of Extracellular, Membrane and Cytosolic Proteins in Bacillus subtilis**
14:45-15:00	O-13	**Frederik Völker**	RWTH Aachen U	DE	**Harnessing the metabolic versatility of engineered B. subtilis 168 for enhanced production of the biopolymer poly-γ-glutamic acid**
15:00-15:15	O-14	**Kenji Tsuge**	Kobe U	JP	**Long DNA synthesis using Bacillus subtilis**
15:15-15:30	O-15	**May Khider**	NTNU	NO	**Production of 3-hydroxypropionic acid from methanol in recombinant Bacillus methanolicus MGA3**

15:30-16:00 Coffee break

16:00-17:15 Oral session 4: Biotechnology 2 (Chair: Ken-ichi Yoshida)

16:00-16:15	O-16	**Varada Jagadeesh**	Kobe U	JP	**SEAM-OGAB: Enabling rapid assembly of chimeric Non-Ribosomal Peptide Synthetase Gene Clusters in Bacillus subtilis**
16:15-16:30	O-17	**Sigrid Görgen**	U Liege	BE	**Adapted cell factories for production of biosurfactant on cheap substrates**
16:30-16:45	O-18	**Cyprien Guérin**	INRAE Jouy	FR	**Continuous culture in custom computer-controlled mini-bioreactors**
16:45-17:00	O-19	**Fujio Kawamura**	Chiba U	JP	**Development of an ultra-transformation system in Bacillus subtilis 168**
17:00-17:15	O-20	**Colin Harwood**	Newcastle U	UK	**A review of the regulatory frameworks for exploiting Bacillus species**

17:15-18:30 Poster session 1 (Odd numbers) (KOBE Chamber of Commerce and Industry 2F Event Hall)

22 November

09:00-10:15 Oral session 5: Biotechnology 3 (Chair: Daisuke Imamura)

09:00-09:15	O-21	**Michael Kohlstedt**	U Saarland	DE	**Understanding redox metabolism in Bacillus licheniformis during heterologous protease production under industrially relevant conditions**
09:15-09:30	O-22	**Maliheh Vahidinasab**	U Hohenheim	DE	**Genetic modification of Bacillus subtilis for improvement of antimicrobial lipopeptide biosynthesis**
09:30-09:45	O-23	**Naoki Miyamoto**	Synplogen	JP	**Application of Combi-OGAB: fine-tuning growth-phase dependent promoters in biosynthetic gene cluster to create heterologous lethal**
09:45-10:00	O-24	**Aysegul Oktem**	Groningen	NL	**Post-translational secretion stress regulation in genome-reduced Bacillus subtilis**
10:00-10:15	O-25	**Jan Maarten van Dijl**	Groningen	NL	**Engineering of Bacillus cell factories for recombinant protein production**

10:15-10:45 Coffee break

10:45-12:00 Oral session 6: Regulation (Chair: Kenji Tsuge)

10:45-11:00	O-26	**Harald Putzer**	Institut de Biologie	FR	**RNase Y autoregulates its synthesis in Bacillus subtilis**
11:00-11:15	O-27	**Jolanda Neef**	Groningen	NL	**Functional analysis of the small regulatory RNA S313 of Bacillus subtilis**
11:15-11:30	O-28	**Shafagh Moradian**	Queen Mary U	UK	**Transcription attenuation as a source of genetic noise in Bacillus subtilis**
11:30-11:45	O-29	**Shinobu Chiba**	Kyotosangyo U	JP	**Regulated translation arrest: a regulation mechanism of genes for bacterial protein localization machinery**
11:45-12:00	O-30	**Roland Hartmann**	Philipps-Universität	DE	**6S RNAs in Bacillus subtilis – more than simple transcription inhibitors**

12:00-13:00 Lunch (Ariston Hotel 2F)

13:00-14:30 Poster session 2 with coffee (Even numbers)

14:30-16:00 Oral session 7: Sporulation and development/Stress response (Chair: Satoshi Matsuoka)

14:30-14:45	O-31	**Libor Krásný**	Czech Academy of Science	CZ	**Small subunits of RNA polymerase affect sporulation in Bacillus subtilis**
14:45-15:00	O-32	**Martin Robert**	Kyoto U	JP	**Biofilming beyond B. subtilis**
15:00-15:15	O-33	**Pamila Osipova**	Russian Academy of	RU	**Molecular mechanisms of resistance of Bacillus pumilus 25 isolated from ISS to antibiotics and oxidative stress**
15:15-15:30	O-34	**Danny K. Fung**	U Wisconsin-Madison	USA	**Guanosine toxicity is associated with DNA damage and prophage activation in Bacillus subtilis**
15:30-15:45	O-35	**Sara Drais**	U Strathclyde	UK	**Gingko Biloba leaf extract inhibits Bacillus subtilis biofilms and alters biofilm moprhology in static and flow biofilm systems**
15:45-16:00	O-36	**Muktesh Kumar Sahu**	IIT	IN	**NaCl induced lifestyle switching from sessile to motile state in Bacillus subtilis**

16:00-16:15 Break (without coffee): Poster removal completed

16:15-17:00 Oral session 8: Cell division/Others (Hiromu Takamatsu)

16:15-16:30	O-37	**Frederic Schramm**	Newcastle U	UK	**DnaA-boxes distant from the unwinding site promote helicase loader recruitment in a bipartite chromosome origin**
16:30-16:45	O-38	**Stuart Middlemiss**	Newcastle U	UK	**Molecular motor tug-of-war regulates elongasome cell wall synthesis dynamics in Bacillus subtilis**
cancelled	~~O-39~~	~~**Liraz Chai**~~	~~Hebrew U Jerusalem~~	~~IS~~	~~**A biophysical view of bacterial biofilms. From isolated components to multicellular organisms**~~
16:45-17:00	O-40	**Hironori Niki**	NIG	JP	**Profiling a single-stranded DNA region within predicted G-quadruplexes in the B. subtilis genome**

18:00- Banquet (Ariston Hotel 16F Party Hall)

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23 November

10:00-17:00 Optional excursion: Himeji Castle (Buses from KOBE Chamber of Commerce and Industry)