

Award Lecture

Wednesday, March 30 13:05–15:05
CH1

Genome analysis-based studies on bacterial genetic diversity

○Tetsuya Hayashi (Department of Bacteriology, Faculty of Medical Sciences, Kyushu University)

Special Session

SS1 Frontier of the pandemic monitoring

Tuesday, March 29 9:15–11:45
CH2

Conveners: Takaaki Akaike (Tohoku University)
Ken Kikuchi (Tokyo Women's Medical University)

SS1-1

Breath omics and pathogen monitoring

○Tomoaki Ida, Takaaki Akaike (Dept. Environ. Med. Mol. Toxicol., Tohoku Univ., Grad. Sch. Med.)

SS1-2

Breath-omics for small animal model and its application

○Fanyan Wei¹, Hozumi Motohashi², Takaaki Akaike³ (¹Dep. Modomics Biol. Med. IDAC, Tohoku Univ., ²Dept. Gene Exp. Reg. IDAC, Tohoku Univ., ³Dept. Environ. Med. Mol. Toxicol., Tohoku Univ., Grad. Sch. Med.)

SS1-3

Potential of exhaled breath condensate analysis in the management of pulmonary infections

○Keisuke Kamada (Dept. Mycobact. RIT. JATA)

SS1-4

SHIONOGI COVID-19 Challenge –DX Promotion through industry-government-academia collaborations–

○Hiroyuki Kobayashi (SHIONOGI & CO., LTD)

SS1-5

The monitoring of the stool-testing derived enteropathogenic bacteria: From the point of the measures of COVID-19

○Toshio Sato (JAPAN BIOSCIENCES, CO., LTD.)

SS2 Including the rank of phylum in the rules of ICNP, and valid publication of the 42 phyla of prokaryotes –information on changes to related ICNP–

Tuesday, March 29 17:00–17:30
CH1

Convener: Ken Kikuchi (Tokyo Women's Medical University)

SS2-1

Including the rank of phylum in the rules of ICNP, and valid publication of the 42 phyla of prokaryotes –information on changes to related ICNP–

○Yoshiaki Kawamura (Aichi Gakuin Univ.)

Wakate Colosseum for Bacteriology

WCB Joint Symposium: Wakate Colosseum for Bacteriology –Young bacteriological research for the future–

Tuesday, March 29 14:30–19:30
CH2

Conveners: Masatoshi Miyakoshi (University of Tsukuba)
Rino Isshiki (Waseda University)
Satoshi Shibata (Tottori University)
Toyotaka Sato (Hokkaido University)
Akira Fukuda (Rakuno Gakuen University)

WCB-1

Development of assessment system for pneumococcal infection by luciferase biomolecular technology

○Sayaka Shizukuishi^{1,2}, Michinaga Ogawa¹, Yukihiko Akeda¹, Akihiko Ryo², Makoto Ohnishi¹ (¹Bacteriol. I, Nat. Inst. Infect. Dis., ²Dept. Microbiol., Yokohama City Univ., Grad. Sch. Med.)

WCB-2

Isolation and characterization of *Staphylococcus argenteus* strains in Japan

○Yuki Wakabayashi^{1,2}, Shizue Yoshihara³, Hayato Tokumoto³, Kentaro Kawatsu¹, Masami Miyake² (¹Div. Microbiol., Osaka Inst. Pub. Health, ²Sch. Life Environ. Sci., Osaka Pref. Univ., ³Sch. Sci., Osaka Pref. Univ.)

WCB-3

Theoretical analysis of microbial growth considering the division of labor

○Daiki Kumakura¹, Ryo Yamaguchi², Akane Hara², Shinji Nakaoka² (¹Grad. Life Sci., Hokkaido Univ., ²Dept. Adv. Trans. Sci., Hokkaido Univ.)

Research Presentation by Junior High School and High School Students

JRS Research Presentation by Junior High School and High School Students

Tuesday, March 29 14:30–19:25
CH2

Conveners: Yoshiaki Kawamura (Aichi Gakuin University)
Yutaka Terao (Niigata University)
Chikara Kaito (Okayama University)

JRS-1

A study on bacillus natto's inhibitory effect against human gut bacteria

○Santo Okuda (Musashino 6th Junior High School)

JRS-2

Let's reduce bacterial spoilage of food by using perilla.

Part III

○Niina Watanabe (Niigata Municipal Kohshi Six-year Secondary School)

JRS-3

Antibacterial test for toothpaste of Obisugi

○Masateru Takahashi, ○Akihiro Shimoshige (Miyazaki Prefectural Miyazaki Kita High School)

JRS-4

Antibacterial ingredients contained in Juniperus chinensis 'Kaizuka'

○Rio Ouchi (Fukuoka Prefectural Jonan High School)

JRS-5

Intestinal Bacteria in Fish - Searching for Antimicrobial Substances

○Hiroya Nakazaki¹, Yuichi Taniguchi², Makoto Hasegawa², Satoshi Ueno¹ (¹Osaka Meisei Gakuen Meisei High School, ²Graduate School of Bioscience, Nagahama Institute of Bio-Science and Technology)

JRS-6

System of Eggshells and Eggshell Membranes to prevent bacteria

○Keirafumi Ikeno, Taiki Kagawa, Miyu Terai, Yuma Teratani (Ishikawa Prefectural Nanao High School)

JRS-7

The possibility of the antimicrobial phone cases using biomimicry

○Shion Kitamori, Kento Morita, Yuya Yamaguchi, Yuki Imamura, Itsuki Kurata, Yusei Nakagoe, Masato Hachikubo, Kazuhiro Moriwaki (Kumamoto Prefectural Kumamoto Kita High School)

WCB-4

Comparison of host range of plasmids belonging to the same incompatibility group

○Maho Tokuda¹, Haruo Suzuki², Masahiro Yuki³, Moriya Ohkuma³, Kazuhide Kimbara¹, Masaki Shintani^{1,3,4} (¹Grad. Sch., Shizuoka Univ., ²Environment & Info. Studies, Keio Univ., ³BRC-JCM, RIKEN, ⁴Shizuoka Univ. RIGST)

WCB-5

Automating agglutination tests with deep learning —as a model of leptospirosis—

○Ryo Ozuru¹, Risa Nakano², Yuji Oyamada² (¹Dept. Microbiol. Immunol., Fac. Med., Fukuoka Univ., ²Dept. EECS., Fac. Eng., Tottori Univ.)

WCB-6

Quorum sensing trigger membrane vesicle formation in *Streptococcus mutans* via cell death

○Tamami Ito¹, Chika Yamamoto¹, Ryo Nagasawa², Nozomu Obana^{3,5}, Nobuhiko Nomura^{4,5}, Masanori Toyofuku^{4,5} (¹Agro-Biological Resource Sciences, Univ. Tsukuba, ²Bioproduction, AIST, ³Dept. Fac. Med., Univ. Tsukuba, ⁴Dept. Life and Environmental Sciences, Univ. Tsukuba, ⁵MiCS, Univ. Tsukuba)

WCB-7

Induction of acid resistance via degradation of *tnaA* mRNA under acidic conditions in *E. coli*.

○Takeshi Kanda¹, Noritaka Iwai², Masatoshi Miyakoshi¹, Masaaki Wachi² (¹Fac. Med., Univ. Tsukuba, ²Dept. Life Sci. Technol., Tokyo Tech.)

WCB-8

Development of Quantitative Evaluation Method for Phage-persistent Bacteria

○Riho Morikawa¹, Naoki Yamamoto¹, Kazuhiko Miyanaga^{2,3}, Yasunori Tanji², Satoshi Tsuneda^{1,2} (¹Dept. Life Sci. Med. Biosci., Grad. Sch. Adv. Sci. Eng., Waseda Univ., ²Phage Therapy Institute, Comprehensive Research Organization, Waseda Univ., ³Dept. Life Sci. Tech., Sch. Life Sci. Tech., Tokyo Tech.)

WCB-9

Identification of the genes associated with the resistance to antimicrobial peptide from hard tick

○So Shimoda¹, Junya Ito², Kiyotaka Nakagawa², Tasuke Ando¹, Hiroshi Yoneyama¹ (¹Dept. Animal Microbiol., Grad. Sch. Agri. Sci., Tohoku Univ., ²Dept. Food & Biodynamic Chem., Grad. Sch. Agri. Sci., Tohoku Univ.)

WCB-10

The assembly mechanism and structures of Type V pili

○Satoshi Shibata¹, Mikio Shoji³, Matthias Wolf², Jun Fujii¹ (¹Div. Bacteriol, Dept. Microbiol. Immunol., Fac. Med., Tottori Univ., ²Molecular Cryo-Electron Microscopy Unit, OIST, ³Dept. Microbiol. Oral Infec., Grad Sch Biomed Science, Nagasaki Univ.)

JRS-8**The working of lactic acid bacteria**

○Mina Onodera, Mone Kikuchi, Kokona Masaki (Iwate Prefectural Kamaishi High School)

JRS-9**What is the best hand-washing method ? —Verification using culture experiments—**

○Shione Ito (Ochanomizu University Senior High School)

JRS-10**Prevention from viral infection based on the transmission rate of different mask types**

○Ayuka Kitazawa (Ochanomizu University Senior High School)

JRS-11**The growth and decay of bacteria depending on temperature**

○Sawa Nakatani, Misaki Tsukuda, Mayu Hirasaki, Toa Teraya, Saya Nishiyama, Nagisa Isoda, Airi Otsuka, Kaho Honda (Kumamoto Prefectural Kumamoto Kita High School)

JRS-12**The development of an indication to confirm whether yoghurt has curdled**

Masatoshi Iida, ○Yuya Uenaka, Yuma Ootani, Koharu Kisimoto (Nara Prefectural Seisho High School)

JRS-13**FOS changes the gut bacterial community in mice**

○Nanako Kaneko (Yamamura Kokusai High School)

JRS-14**The relationship between slime substance of natto bacteria and proteolytic enzyme**

○Mao Maeda (MEIJO University Senior High School)

JRS-15**Development of high-strength polylactic acid biodegradable plastic by mixing vegetable powder**

○Miu Suzuki, Konosuke Matsumoto, Kazuki Oikawa, Yuka Kawato, Yuuka Sakota (Kanagawa Prefectural Yokosuka High School)

JRS-16**Studies on chemical substances involved in stomata recognition by phytopathogenic bacteria using chemotaxis assay**

○Takatomo Kimura (Hyogo Prefectural KOBE High School)

JRS-17**The Change of Water Quality and Bacteria Affected by Climate and Season**

○Maaya Inoue, Koki Shiozaki, Haruka Hanou, Hikari Yoshida, Seito Suzuki, Ryo Takahashi (Hokkaido Hakodate Chubu High School)

JRS-18**Competitive exclusion of lactic acid bacteria**

○Mio Aso (MEIJO Univ. Senior H. S.)