

Invited Lecture

24th, March (Wed) 19:00–21:00
Channel 2

Chair: Hideaki Nagamune (Tokushima University)

Lectures by Winners of Rokuzo Kobayashi Memorial Award and Kuroya Scholarship Award

Wakate Colosseum for Bacteriology

WCB Joint Symposium: Wakate Colosseum for Bacteriology -Cutting-edge science by young researchers who are pioneering the tomorrow of bacteriology-

23rd, March (Tue) 16:00–21:00
Channel 2

Conveners: Masaya Yamaguchi (Osaka University)
Seiji Yamasaki (Osaka University)
Tomohiro Takano (National Institute of Infectious Diseases)
Rino Isshiki (Waseda University)

Co-host: Wakate Colosseum for Bacteriology, Organizing Committee

WCB-1

Characteristics of an adhesion molecule with CDC-motif produced by *Mitis* group streptococci

○Airi Matsumoto¹, Atsushi Tabata¹, Kazuto Okura², Hiroki Oda¹, Chihiro Kodama¹, Hisashi Ohkuni³, Ayuko Takao⁴, Ken Kikuchi⁵, Toshifumi Tomoyasu¹, Hideaki Nagamune¹ (¹Dept. Biol. Sci. & Tech., Life Syst., Inst. Tech. & Sci., Tokushima Univ. Grad. Sch., ²Div. Clin. Pharm. & Pharm. Sci., Grad. Sch. Pharm. Sci., Suzuka Univ. Med. Sci., ³Health Sci. Res. Inst. East Jpn., ⁴Dept. Oral. Microbiol., Sch. Dept. Med., Tsurumi Univ., ⁵Dept. Infect. Dis. Tokyo Women's Med. Univ.)

WCB-2

Cell death induction and extracellular DNA production in *Streptococcus mutans* biofilm

○Ryo Nagasawa¹, Andrew S. Utada^{2,3}, Nobuhiko Nomura^{2,3}, Nozomu Obana^{3,4} (¹Grad. Sch., Life. Environ. Sci., Univ. Tsukuba, ²Fac., Life Environ. Sci., Univ. Tsukuba, ³MiCS, Univ. Tsukuba, ⁴Fac. Med., TMRC, Univ. Tsukuba)

WCB-3

Molecular analysis of novel survival strategy of *Streptococcus pneumoniae* by autophagy hijacking

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

WCB-4

Pathogenicity of domestic and foreign prevalent-type *Streptococcus dysgalactiae* subsp. *equisimilis*

○Miki Matsue¹, Kohei Ogura², Tohru Miyoshi-Akiyama³, Takashi Wada⁴, Shigefumi Okamoto¹ (¹Dept. Clin. Lab. Sci., Kanazawa Univ. Grad. Sch. Med., Pharm., and Health Sci., ²Inst. Front. Sci., Kanazawa Univ., ³Pathogenic Microbe Lab., NCGM., ⁴Dept. Nephrology, Kanazawa Univ. Grad. Sch. Med., Pharm., and Health Sci.)

WCB-5

The analysis of the efflux pump MexB to prevent the drug-resistance of *Pseudomonas aeruginosa*

○Naoki Koga (Dept. Cell biol., Grad Sch. Pharm., Osaka Univ.)

WCB-6

WGS analysis of antibiotic-resistant Gram-negative bacteria recovered from aquatic environments

○Wataru Hayashi¹, Yukiko Nagan², Noriyuki Nagan¹ (¹Dept. Med. Sci., Grad. Sch. Med. Sci. and Technol., Shishu Univ., ²Dept. Bacteriol., Grad. Sch. Med., Nagoya Univ.)

WCB-7

Phage-resistance acquisition via mobile genetic elements in *Escherichia coli*

○Junpei Fujiki¹, Chika Kawaguchi¹, Montgomery Munby¹, Keisuke Nakamura¹, Tomohiro Nakamura¹, Masaru Usui², Yutaka Tamura², Hidetomo Iwano¹ (¹Lab. Vet. Biochem., Sch. Vet. Med., Rakuno Gakuen Univ., ²Lab. Food. Hygiene., Sch. Vet. Med., Rakuno Gakuen Univ.)

WCB-8

Structural study of extended-spectrum AmpC associated with the ceftazidime–avibactam resistance

○Akito Kawai, Yohei Doi (Dept. Microbiol., Fujita Health Univ. Sch. Med.)

WCB-9

High-throughput laboratory evolution reveals evolutionary constraints in *Escherichia coli*

○Tomoya Maeda¹, Junichiro Iwasawa², Chikara Furusawa^{1,2} (¹RIKEN Center for Biosystems Dynamics Research, ²Universal Biology Institute, The Univ. of Tokyo)

WCB-10

Direct imaging of horizontal gene transfer in *Streptococcus pneumoniae*

○Jun Kurushima (Dept. Bacteriology, Gunma Univ. Grad. Sch. Medicine)

WCB-11

Porphyromonas gingivalis induces mesenchymal-like transition through beta-catenin signaling

○Jun Ohshima (Dept. Restor Dent Endod., Sch. Dent., Osaka Univ.)

WCB-12

The mechanism of pertussis cough revealed by the mouse-coughing model

- Yukihiro Hiramatsu¹, Koichiro Suzuki², Takashi Nishida¹, Yasuhiko Horiguchi¹ (¹Dept. Mol. Bact., RIMD, Osaka Univ, ²BIKEN)

Research presentation by junior high school and high school students

JRS Research presentation by junior high school and high school students

23rd, March (Tue) 16:00–18:00
Channel 3

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

JRS-1

Comparative study on *Bacillus Natto*, home-made Inawara Natto versus commercially available Natto

- Santo Okuda (Musashino 6th Junior High School)

JRS-2

Let's reduce bacterial spoilage of food by using perilla

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

JRS-3

Antibacterial Effect of Edible Plant on Multiple Bacteria Clusters

- Miu Tanaka, Kiko Kumata, Daisuke Nagao (Osaka Prefecture Kozu High School)

JRS-4

Difference in antibacterial action depending on the degree of roasting of coffee

- Mao Suzuki, Anna Takagi (Tokyo Gakugei Univ. Senior High School)

JRS-5

The antibacterial effects of alcohol concentration and plant extracts

Yuho Ikuta, Kurumi Sekimoto, Yuka Terazono, Saya Murakami, Chisato Morikawa, Mizuki Yamasaki, Sayaka Yamashita, Kana Watanabe, Yuika Abe, Ayane Sakamoto, Yukari Maeda, Nanaka Morita, Honoka Yoshitome, Shinjiro Uragami, ○Itsuki Kanaya (Kumamoto Prefectural Kumamoto Kita High School)

JRS-6

The way to protect lactic acid bacteria from gastric juice

Ayumu Asano, Yuka Tatsukawa, ○Asuka Toma, Yusei Yamazaki (Nanao High School)

JRS-7

Competitive exclusion of lactic acid bacteria

- Mio Aso, Asami Nishimori, Momone Inaba (Meijo Univ. Senior Highschool)

JRS-8

Suppression of *Euglena*'s movement by metal ions

- Toranosuke Kakida, Kanta Takahashi, Wataru Nakashima, Arata Nakahashi (Komatsu high school)

JRS-9

Bacterias residing in the jelly clumps of *Nostoc commune*

- Mai Hyugaji (Meikei Gakuen High school)

JRS-10

The ecology of exoelectrogens which live in sediment of Lake Kasumigaura and the assessment of microbiological electric generation using them

- Ayano Kawamura (Meikei High School)

JRS-11

Biodegradable plastic

- Taiga Ono, Yusei Ito (Meijo Univ. Senior High School)

Special Session

SS Action and revolution of Japanese Society for Bacteriology under COVID-19 pandemic

23rd, March (Tue) 19:00–21:00
Channel 4

Conveners: Ken Kikuchi (Tokyo Women's Medical University)
Osamu Matsushita (Okayama University)

SS1

Action and revolution of Japanese Society for Bacteriology under COVID-19 pandemic

- Ken Kikuchi (Tokyo Women's Medical University)

SS2

COVID-19 and AMR

- Motoyuki Sugai (AMR Research Center, NIID)

SS3

Fungal (*Candida auris* and *Aspergillus*) Outbreak during a COVID-19 Pandemic

- Koichi Makimura (Medical Mycology and Space Environmental Medicine, Grad. Sch. Med., Teikyo Univ.)

SS4

Relationship between COVID-19 and bacterial infection

- Naoki Hasegawa (Dept. Infectious Diseases, Keio Univ. Sch. Medicine)

SS5

COVID-19 control in the post-pandemic perspective of next generation medicine

○Takaaki Akaike (Dept. Environmental Medicine and Molecular Toxicology, Grad. Sch. Med., Tohoku Univ.)