

Poster (P)

1. Taxonomy / Epidemiology / Infectious diseases
-a. Phylogenetics, taxonomy and strain typing

P1-001 (WS03-2)**Microevolution of an epidemic monophasic variant of *Salmonella* Typhimurium in Japan**

○Nobuo Arai^{1,2}, Tsuyoshi Sekizuka³, Yukino Tamamura², Masahiro Kusumoto², Atsushi Hinenoya¹, Shinji Yamasaki¹, Taketoshi Iwata², Ayako Watanabe-Yanai², Makoto Kuroda³, Masato Akiba^{1,2} (¹Grad. Sch. Life and Environ. Sci., Osaka Pref. Univ., ²Natl. Inst. Anim. Health, ³Natl. Inst. Infect. Dis.)

P1-002**Multilocus sequence typing of *Ehrlichia* species detected from ticks in Japan**

○Hongru Su¹, Eri Onoda¹, Shigetoshi Sakabe², Shigehiro Akachi³, Hiromi Fujita⁴, Saori Oishi⁵, Fuyuki Abe⁵, Takashi Kanda⁵, Norio Ohashi¹ (¹Lab. Microbiol., Sch. Food Nutr. Sci., Univ. Shizuoka, ²Dept. Medic Infect Dis., Ise Red Cross Hosp., ³Mie Pref. Inst. Health Environ., ⁴Mahara Inst. Med. Acari, ⁵Dept. Microbiol Shizuoka Inst. Environ. Hygiene)

P1-003**Molecular characterization and antimicrobial resistance of MRSA from pigs and pork in Thailand**

○Wimonrat Tanomsridachchai¹, Chie Nakajima^{1,2}, Kanjana Changkaew³, Ruchirada Changkwanyeeun³, Watsawan Prapasawat⁴, Apiradee Intarapuk⁴, Nattapong Yamasamit³, Orasa Suthienkul³, Yasuhiko Suzuki^{1,2} (¹Div. Biores, Hokkaido Univ. Res Center Zoonosis Ctl, Japan, ²GS Zoonosis Ctl, GI-CoRE, Hokkaido Univ., Japan, ³Fac. Public Health, Thammasat Univ., Thailand, ⁴Dept. Clinic, Fac. Vet. Med., Mahanakorn Univ. of Tech., Thailand)

P1-004**Molecular epidemiology of MRSA among Japanese inpatient isolates from the 1980s**

○Hui Zuo¹, Yuki Uehara^{1,2,3,4}, Yujie Lu⁴, Naokatsu Fukukawa⁵, Keiichi Hiramatsu^{1,4} (¹Dept. Microbiology., Sch. Med., Juntendo Univ. Faculty of Medicine, ²Dept. Clinical Laboratory., St Luke International Hospital, ³Dept. Infectious Diseases., St Luke International Hospital, ⁴Dept. Infection Control Science Research., Juntendo Univ. Grad. Sch. Medicine, ⁵Dept. of Nursing., Kyorin Univ. Hospital)

P1-005**New species belonging to the family Sutterellaceae**

○Mitsuo Sakamoto^{1,2}, Nao Ikeyama¹, Tadao Kunihiro³, Takao Iino¹, Masahiro Yuki¹, Moriya Ohkuma¹ (¹Microbe Division/ Japan Collection of Microorganisms (JCM), RIKEN BioResource Research Center, ²PRIME, Japan Agency for Medical Research and Development (AMED), ³TechnoSuruga Laboratory)

P1-006**Reclassified of *Fusobacterium nucleatum* 5 subsp to species status & proposal of *F watanabei* sp. nov.**

Junko Tomida¹, Tohru Miyoshi-Akiyama², Kaori Tanaka³, Masahiro Hayashi³, Ryo Kutsuna¹, Yoshiaki Kawamura¹ (¹Dept. Microbiol, Sch. Pharm. AichiGakuin Univ., ²Pathogenic Microbe Lab, Dept. Infect. Dis. NCGM, ³Div. Anaerobe Res., Life Sci. Res. Ctr., Gifu Univ.)

P1-007**Analysis of the relationship between the microbiome in the sebaceous glands and acne vulgaris**

○Naoki Hayashi¹, Ichiro Kurokawa², Masato Suzuki³, Yuichi Muraki⁴, Masataka Oda¹ (¹Dept. Microbiol. Infect. Control Sci., Kyoto Pharm. Univ., ²Dept. Dermatol., Meiwa Hosp., ³Antimicrobial Resistance Res. Ctr., Natl. Inst. Infect. Dis., ⁴Dept. Clin. Pharmacoepidemiol., Kyoto Pharm. Univ.)

P1-008**The concept of OSNAp, a Novel Approach to Core Gene-Independent Plasmid Phylogeny**

○Masahiro Suzuki¹, Yohei Doi¹, Yoshichika Arakawa² (¹Dept. Microbiol., Sch. Med., Fujita Health Univ., ²Dept. Bacteriol., Sch. Med. Nagoya Univ.)

1. Taxonomy / Epidemiology / Infectious diseases
-b. Epidemiology and molecular epidemiology

P1-009 (WS03-6)**Investigation of factors contributing to the invasiveness of *Streptococcus pyogenes emm 89***

○Yujiro Hirose¹, Masaya Yamaguchi¹, Tohru Miyoshi-Akiyama², Norihiko Takemoto², Rumi Okuno³, Takahiro Yamaguchi⁴, Hitoshi Otsuka⁵, Tomoko Sumitomo¹, Masanobu Nakata¹, Shigetada Kawabata¹ (¹Dept. Oral Mol. Microbiol., Osaka Univ. Grad. Sch. Dent., ²Pathogenic Microbe Lab., Dept. Infectious Diseases, NCGM., ³Dept. Microbiol., Tokyo Inst. Pub. Heal., ⁴Dept. Bacteriol., Osaka. Inst. Pub. Heal., ⁵Yamaguchi. Pref. Inst. Pub. Heal. Env.)

P1-010 (WS03-5)**Epidemiology of carbapenem-resistant *Enterobacteriaceae* in one university hospital (2014-2019).**

○Tatsuki Mura¹, Miyako Asou¹, Emi Morita¹, Kazumi Kanaya¹, Kae Kawamura¹, Yoshitsugu Inuma^{1,2} (¹Dept. Clin. Lab., Kanazawa Med. Univ. Hosp., ²Dept. Clin. Infect. Dis., Kanazawa Med. Univ.)

P1-011 (WS03-4)**Genomic analysis of a pandrug-resistant *Klebsiella pneumoniae* sequence type 11**

○Satoshi Nishida, Takane Kikuchi-Ueda, Tsuneyuki Ubagai, Yoshinori Sato, Shigeru Tansho-Nagakawa, Yasuo Ono (Dept. Microbiol. Immunol., Sch. Med., Teikyo Univ.)

P1-012 (WS03-3)**Molecular epidemiological characteristics of *Enterobacter cloacae* complex blood isolates**

○Sarangi Jayathilake¹, Nao Matsuo², Rina Nonogaki², Michiko Hayashi², Masahiro Suzuki³, Jin Wanchun¹, Jun-ichi Wachino¹, Kouji Kimura¹, Yoshichika Arakawa¹ (¹Dept. Bacteriol., Nagoya Univ. Grad. Sch. Med., ²Dept. Pathophysiol. Lab. Sci., Nagoya Univ. Grad. Sch. Med., ³Dept. Microbiol. Fujita Health Univ.)

P1-013**Genetically diverse strains of *Chlamydia trachomatis* are circulated in Sapporo**

○Jeewan Thapa, Takanori Watanabe, Mana Isoba, Torahiko Okubo, Hiroyuki Yamaguchi (Fac. Health Sci., Hokkaido Univ.)

P1-014**Characterization and prevalence *Vibrio parahaemolyticus* infection before the global pandemic**

○Manae Higashi¹, Mina Sakuta¹, Yuria Kobayashi¹, Ahmad Yaman Kayali², Mitsuaki Nishibuchi², Yoshitsugu Nakaguchi^{1,2} (¹Dept. Food Sci., Fac. Bioresources and Env. Sci., Ishikawa Pref. Univ., ²Ctr. Southeast Asian Studies, Kyoto Univ.)

P1-015**Emergence of carbapenem-resistant and colistin-non-resistant *Enterobacter cloacae* harboring *mcr-9***

○Pegah Kananizadeh, Satoshi Oshiro, Shu Iwata, Teruo Kirikae (Dept. Microbiol, Sch. Med., Juntendo Univ.)

P1-016**Mutational changes in plasmid genome with *vanA* in enterococci causing hospital outbreak in Osaka**

○Yoshihiro Fujiya^{1,2}, Tetsuya Harada³, Yo Sugawara¹, Yukihiro Akeda^{1,2}, Kazunori Tomono², Shigeyuki Hamada¹ (¹RCC-ERI, RIMD, Osaka Univ., ²Dept. Infect. prevent. control, Sch. Med., Osaka Univ., ³Div. Bacteriol., Osaka Inst. Public Health)

P1-017**Isolation of *Bartonella* spp. in masked palm civet captured in Kyoto City, Japan**

○Mire Kin¹, Aya Muraoka¹, Yukie Koga¹, Masami Okumura², Mieko Kawamichi³, Keiichi Miyake⁴, Akihiko Maeda¹, Azusa Someya¹ (¹Dept. Anim. Med. Sci., Kyoto Sangyo Univ., ²Dept. Bioresour. Sci., Ryukoku Univ., ³Kansai Wildlife Res. Assoc., ⁴Miyake Vet. Clinic)

P1-018**First isolation of carbapenemase-producing *Enterobacteriaceae* in Malawi, Africa**

○Geoffrey Kumwenda^{1,2,3}, Yo Sugawara¹, Ryuichiro Abe², Yukihiro Akeda^{1,2}, Watipaso Kasambara³, Kenneth Chizani³, Dan Takeuchi¹, Noriko Sakamoto¹, Kazunori Tomono², Shigeyuki Hamada¹ (¹RCC-ERI, RIMD, Osaka Univ., ²Dept. Infect. Cont. Prevent., Med. Hosp., Osaka Univ., ³Natl. Ref. Lab., MOH, Lilongwe, Malawi)

P1-019**Unique features of ST8/SCC*mecIV* community-associated methicillin-resistant *Staphylococcus aureus***

○Tsai-Wen Wan², Lee-Jene Teng², Tatsuo Yamamoto¹ (¹Dept. Epidemiol. Genomics Evol., Intl. Med. Edu. Res. Center, ²Dept. Clin. Lab. Sci. Med. Biotechnol., National Taiwan Univ.)

P1-020**Detection of quinolone resistance determinants in *E. coli* from food animals in the Philippines**

○Lawrence Belotindos^{1,2}, Claro Mingala¹, Marvin Villanueva¹, Chie Nakajima^{2,3}, Yasuhiko Suzuki^{2,3} (¹Biosafety and Environ Section, Philippine Carabao Center, the Philippines, ²Div. Biores, Hokkaido Univ. Res Center Zoonosis Ctl, ³GS Zoonosis Ctl, GI-CoRE, Hokkaido Univ.)

P1-021**Characterization of ESBL-producing *Escherichia coli* in Surabaya, Indonesia**

○Fikri Widyatama¹, Rosantia Sarassari^{1,2}, Takuya Higa¹, Kouta Hamamoto¹, Kuntaman Kuntaman², Itaru Hirai¹ (¹Lab. Microb., Sch. Health Sci, The Ryukyus. Univ., ²Dept. Clin. Microb., Fac. Med., Airlangga Univ.)

P1-022**Characterization of CTX-M type ESBL-producing *E. coli* from ICU and non-ICU ward in Indonesia**

○Rosantia Sarassari¹, Takuya Higa¹, Nobuyoshi Yagi¹, Kuntaman Kuntaman², Itaru Hirai¹ (¹Lab. Microb., Sch. Health Sci., The Ryukyus. Univ., ²Dept. Clin. Microb., Fac. Med., Airlangga Univ.)

P1-023**【Withdrawn】**

1. Taxonomy / Epidemiology / Infectious diseases
-c. Isolation and characterization of clinical isolates

P1-024**【Withdrawn】****P1-025****Relation between PlcR transcriptional regulation system and SMase production in *Bacillus cereus***

○Atsushi Yokotani¹, Fumi Takahashi¹, Ryoko Aoyama¹, Naoki Hayashi¹, Tadashi Kosaka², Masaki Nakanishi³, Naohisa Fujita³, Masataka Oda¹ (¹Dept. Microbiol. Infect. Cont. Sci., Kyoto Pharm. Univ., ²Dept. Pharm., Univ. Hosp., Kyoto Pref. Univ. Med., ³Dept. Infect. Cont. Lab. Med. Univ. Hosp., Kyoto Pref. Univ. Med.)

P1-026**Identification of *Candida auris* by biochemical assay**

○Mengqian Du^{1,2}, Takashi Tamura², Koichi Makimura² (¹Dept. Gen. Med., Sch. Juntendo Univ., ²Gen. Med. Educ. Rec. Center, Teikyo Univ.)

P1-027**Development of a culture method and a PCR-based method for detection of *Lautropia mirabilis*.**

○Ayame Sato^{1,2}, Masaaki Nakayama^{1,3}, Mio Nakagawa⁴, Hiroataka Kosaki², Misato Muro⁴, Yoshihiko Soga⁴, Naoya Ohara^{1,3} (¹Dept. Oral Microbiol., Okayama Univ. Grad. Sch. Med. Dent. Pharm., Sci., ²Perio., Mgmt. Cent., Okayama Univ. Hosp., ³ARCOCUS, Dent. Sch., Okayama Univ., ⁴Div. Hosp. Dent., Cent. Clin. Dept., Okayama Univ. Hosp.)

P1-028**Effect of plant-derived extract, Phellodendron bark, against cariogenic bacteria**

○Toshiya Tsujii^{1,2}, Miki Matsuo¹, Hitoshi Komatsuzawa³, Youichi Yamasaki² (¹Dept. Oral Microbiol. Grad. Sch. Med. and Dent. Kagoshima Univ., ²Dept. Pediatric dentistry. Grad. Sch. Med. and Dent. Kagoshima Univ., ³Dept. Bact. Grad. Sch. Bio. Med. and Health. Sci. Hiroshima Univ.)

P1-029***Brucella ceti* isolated from a bottlenose dolphin for the first time in the western Pacific**

○Yuichi Ueno¹, Makio Yanagisawa², Sayuri Kino², Satoru Shigeno³, Makoto Osaki¹, Daisuke Takamatsu¹, Ken Katsuda¹, Tadashi Maruyama⁴, Kazue Ohishi⁵ (¹Div. Bact. Paras., NIAH, NARO, ²Okinawa Churashima Found, ³Okinawa Pref. Inst. Anim. Health, ⁴Sch. Mar. Sci., Kitasato Univ., ⁵Sch. Engin., Tokyo Polytec. Univ.)

P1-030**Etiology of Enteric Pathogens among Diarrheal Patients at the Infectious Diseases Hospital, Kolkata**

○Goutam Chowdhury^{1,2}, Alok Deb², Eizo Takahashi¹, Keinosuke Okamoto¹, Shanta Dutta², Asish K. Mukhopadhyay² (¹Coolabo. Res. Cen. Okayama Univ. Infect. Dis. India, ²Dept. Bacteriol., NICED. India)

1. Taxonomy / Epidemiology / Infectious diseases
-d. Methods for detection, identification, and diagnosis

P1-031 (WS03-8)**Distinguished identification of *Rickettsia japonica* and non-pathogenic *Rickettsia* in ticks**

○Eri Onoda¹, Hongru Su¹, Shigetoshi Sakabe², Shigehiro Akachi³, Hiromi Fujita⁴, Saori Oishi⁵, Fuyuki Abe⁵, Takashi Kanda⁵, Norio Ohashi¹ (¹Lab. Microbiol., Sch. Food Nutr. Sci., Univ. Shizuoka, ²Dept. Medic Infect Dis., Ise Red Cross Hosp., ³Mie Pref. Health Environ. Res. Inst., ⁴Mahara Inst. Med. Acari, ⁵Dept. Microbiol Shizuoka Inst. Environ. Hygiene)

P1-032 (WS03-1)**Genome analyses of *E. coli* strains isolated as suspected causative agents in diarrhea outbreaks**

○Yoshitoshi Ogura¹, Mari Sasaki², Hiroshi Narimatsu², Kai Ishimaru³, Yoko Arimizu¹, Yasuhiro Gotoh¹, Keiji Nakamura¹, Tetsuya Hayashi¹ (¹Dept. Bact., Facul. Med. Sci., Kyushu Univ., ²Lab. Micro., Oita Pref. Inst. Health Environ., ³Facul. Med., Sci. Kyushu Univ.)

P1-033**Development of a reagent to increase accuracy of GBS screening test for pregnant women**

○Masaya Ogata¹, Jumpei Uchiyama¹, Hidehito Matui², Iyo Uchiyama¹, Tadahiro Nasukawa¹, Shigenobu Matsuzaki³, Hideaki Hanaki², Masahiro Sakaguchi¹ (¹Dept. Microbiol. Sch. Vet, Azabu Univ., ²Dept. Microbiol. Sch. Vet, Kitasato Univ., ³Dept. Ophthalmol. Visual Sci., Sch. Med., Kochi Univ.)

P1-034**An appropriate PCR conditions to detect *Escherichia albertii* from chicken meat samples**

○Sakura Arai¹, Kenji Ohya¹, Kayoko Ohtsuka², Noriko Konishi³, Yukiko Hara-Kudo¹ (¹Div. Microbiol., Natl. Inst. Health Sci., ²Saitama Inst. Public Health, ³Tokyo Metropol. Inst. Public Health)

P1-035**Development of external quality control assurance and training systems for public health Institutes**

○Masakado Matsumoto¹, Hidemasa Izumiya², Hirohito Shinomiya³, Junko Isobe⁴, Noriko Konishi⁵, Maho Kawamura⁵, Kazuko Seto⁵, Hiroko Minagawa¹, Makoto Ohnishi² (¹Dept. Microbiol., Aichi Pref. Inst. Pub. Healt., ²Dept. Microbiol.1, Nat. Insit. Infect. Dis., ³Ehime Pref. Inst. Pub. Healt. Environ., ⁴Toyama Pref. Inst. Pub. Healt., ⁵Inst. Pub. Healt., Tokyo, Osaka)

P1-036**Rapid detection of Stx2e in culture supernatant of swine clinical samples**

○Hideyuki Arimitsu^{1,2}, Tomoko Kohda³, Masafumi Mukamoto³, Masahiro Kusumoto⁴ (¹Dept. Microbiol. Sch. Human Sci. Environ., Univ. of Hyogo, ²Res. Inst. Food and Nutr. Sci., Univ. of Hyogo, ³Dept. Vet. Sci., Osaka Pref. Univ., ⁴Nat. Agr. Food Res. Org.)

P1-037**Rapid profiling of drug-resistant bacteria using propidium monoazide and a nanopore DNA sequencer**

○Ayumu Ohno¹, Kazuo Umezawa², Satomi Asai³, Kirill Kryukov¹, So Nakagawa¹, Hayato Miyachi³, Tadashi Imanishi¹ (¹Dept. Molecular Life Science., Sch. Med., Tokai Univ., ²Dept. Emergency and Critical Care Medicine., Sch. Med., Tokai Univ., ³Dept. Laboratory Medicine, Sch. Med., Tokai Univ.)

**1. Taxonomy / Epidemiology / Infectious diseases
-e. Others**

P1-038 (WS03-7)

The relationship between infant botulism and sudden infant death syndrome (SIDS)

○Takuihiro Matsumura, Sho Amatsu, Masahiro Yutani, Yukako Fujinaga (Dept. Bacteriol., Sch. Med. Sci., Kanazawa Univ.)

P1-039

Reactive cysteine polysulfide inhibit NLRP3 inflammasome activity in macrophages

○Tianli Zhang¹, Hiroyasu Tsutsuki¹, Katsuhiko Ono¹, Takaaki Akaike², Tomohiro Sawa¹ (¹Dept. Microbiology, Grad. Sch. Medical Science, Kumamoto Univ., ²Dept. Environmental Medicine and Molecular Toxicology, Tohoku Univ. Grad. Sch. Medicine)

P1-040

Effect of Oral Indole-Supplemented Water on Chemotherapy-Induced Bacterial Translocation

○Yuki Yamasaki¹, Kazuki Kitaoka², Satoshi Tsuneda^{1,2} (¹Dept. Life Sci. Med. Biosci., Waseda Univ., ²Dept. Nano Life Innov., Waseda Univ.)

3. Physiology / Structural biology -a. Metabolism, biosynthesis and metabolome

P1-041

Reactive CysSSH via cysteinyl-tRNA synthetase expression depending on energy metabolism in yeast

○Sunghyeon Yoon¹, Akira Nishimura², Tomoaki Ida¹, Minkyung Jung¹, Masanobu Morita¹, Tetsuro Matsunaga¹, Hiroshi Takagi², Hozumi Motohashi³, Takaaki Akaike¹ (¹Dept. Environ Med. Mol. Toxicol, Tohoku Univ. Grad. Sch. Med., ²Grad. Sch. Biol. Sci., Nara Inst. Sci. and Technol., ³Dept. Gene Exp. Reg., IDAC, Tohoku Univ.)

P1-042

Sulfide: quinone oxidoreductase-dependent energy metabolism in fission yeast

○Qamarul Hafiz Zainol Abidin¹, Akira Nishimura², Tomoaki Ida¹, Masanobu Morita¹, Minkyung Jung¹, Tetsuro Matsunaga¹, Hozumi Motohashi³, Takaaki Akaike¹ (¹Dept. Environ. Med. Mol. Toxicol., Tohoku Univ. Grad. Sch. Med., ²Grad. Sch. Biol. Sci., Nara Inst. Sci. and Technol., ³Dept. Gene Exp. Reg., IDAC, Tohoku Univ.)

P1-043

Associations of gut microbiota, dietary intake, and serum SCFAs with fecal SCFAs

○Ryodai Yamamura¹, Koshi Nakamura^{2,5}, Naoya Kitada³, Tomoyasu Aizawa³, Yu Shimizu⁴, Kiminori Nakamura⁴, Tokiyoshi Ayabe⁴, Takashi Kimura⁵, Akiko Tamakoshi⁵ (¹Dept. Public Health., Grad. Sch. Med., Hokkaido Univ., ²Dept. Public Health & Hygiene, Grad. Sch. Med., Univ. the Ryukyus, ³Lab. Protein Sci., Fac. Adv. Sci., Hokkaido Univ., ⁴Innate Immun. Lab., Fac. Adv. Sci., Hokkaido Univ., ⁵Dept. Public Health., Fac. Med., Hokkaido Univ.)

P1-044

Analysis of the uptake mechanism of serine in *Campylobacter jejuni*

○Ayako Watanabe-Yanai¹, Taketoshi Iwata¹, Yukino Tamamura¹, Nobuo Arai², Masato Akiba^{1,2}, Masahiro Kusumoto¹ (¹NARO, NIAH, ²Dept. Vet. Sci., Grad. Sch. Life Environ. Sci., Osaka Pref. Univ.)

3. Physiology / Structural biology -b. Motility

P1-045

Structural change of PomAB stator complex induced by Na⁺ flux in *Vibrio flagellar motor*

○Tatsuro Nishikino, Hiroto Iwatsuki, Taira Mino, Seiji Kojima, Michio Homma (Div. Biol. Sci., Grad. Sch. Sci., Nagoya Univ.)

P1-046

Comparison of gliding motility between type I and type II strains of *Mycoplasma pneumoniae*

○Masaki Mizutani¹, Makoto Miyata^{1,2} (¹Grad. Sch. Sci., Osaka City Univ., ²OCARINA, Osaka City Univ.)

P1-047

Structure of MMOB1620, an unknown protein that constitutes the motor of *Mycoplasma mobile*.

○Hiroki Sato¹, Hisashi Kudo², Aya Kodama¹, Koji Ooka³, Shunji Suetaka², Yuuki Hayashi², Munehito Arai^{2,3}, Makoto Miyata^{1,4} (¹Grad. Sch. Osaka City Univ., ²Dept. Life Sci., Univ. Tokyo, ³Dept. Phys., Univ. Tokyo, ⁴OCARINA Osaka City Univ.)

P1-048

Rheotaxis in *Mycoplasma pneumoniae*

○Yoshiki Kabata, Daisuke Nakane, Takayuki Nishizaka (Dept. Phys., Gakushuin Univ.)

P1-049

Directional switching mechanism of the bacterial flagellar motor

○Tohru Minamino¹, Miki Kinoshita¹, Keiichi Namba^{1,2,3} (¹Grad. Sch. Frontier Biosci, Osaka Univ., ²RIKEN BDR, ³RIKEN SPring-8)

3. Physiology / Structural biology -c. Signal transduction (intracellular and intercellular)

P1-050

***Prophyromonas levii* acts as a growth-promotor of *Treponema phagedenis* in a polymicrobial infection**

○Rathanon Khemgaew¹, Takako Taniguchi², Satomi Sasaki², Naoaki Misawa^{1,2} (¹Dept. Vet. Sci., Fac. Agri., Univ. Miyazaki, ²Center for Animal Disease Control, Univ. Miyazaki)

P1-051

Analysis of extracellular DNA production in biofilm of *Streptococcus mutans*.

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

P1-052

Heterogeneity and morphology control mechanism in biofilm by quorum sensing of pathogenic bacteria

○Yoshihiko Tabushi¹, Nozomu Obana^{2,3}, Nobuhiko Nomura^{3,4} (¹Grad. Sch. Life Environ. Sci., Tsukuba Univ., ²TRMC, Fac. Med., Tsukuba Univ., ³MiCS, Tsukuba Univ., ⁴Fac. Life Environ. Sci., Tsukuba Univ.)

3. Physiology / Structural biology -d. Cell surface structure, membrane structures and cytoskeleton

P1-053

Examination of the purification method of the membrane vesicles produced by Gram-positive bacteria

○Tadahiro Nasukawa¹, Ryosuke Sugimoto¹, Hidekatsu Shimakura¹, Masaya Ogata¹, Ken Fukuda², Shigenobu Matsuzaki², Jumpei Uchiyama¹ (¹Lab. Vet. Microbiol. I., Sch. Vet. Med., Azabu Univ., ²Dept. Ophthalmol. Visual Sci., Sch. Med., Kochi Univ.)

P1-054

Effect of initial pH on production and virulence of Membrane vesicles in *Streptococcus mutans*

○Yusuke Iwabuchi^{1,2}, Tomoyo Nakamura³, Yasuka Kusumoto¹, Osamu Shinozuka¹, Ryoma Nakao¹, Hidenobu Senpuku¹ (¹Dentistry for Persons with Disabilities, Grad. Sch. Med. Dent. Sci., Tokyo Med. Dent. Univ., ²Dept. Bacteriol. I, Nat. Inst. Infect. Des., ³Grad. Sch. Bioresour. Sci., Nihon Univ.)

P1-055

Detail Structure of *Spiroplasma* Fibril Protein Driving Helicity-Switching Swimming

○Yuya Sasajima¹, Takayuki Kato², Tomoko Miyata², Keiichi Namba^{2,3,4}, Makoto Miyata^{1,5} (¹Grad. Sch. Sci., Osaka City Univ., ²Grad. Sch. Frontier Biosci., Osaka Univ., ³RIKEN BDR & SPring-8 Center, ⁴JEOL Yokogushi Res. Alliance. Lab., ⁵OCARINA, Osaka City Univ.)

P1-056

Na⁺ dependent structural change of PomA cytoplasmic region in Na⁺-driven *Vibrio* flagellar motor

○Michio Homma, Taira Mino, Tatsuro Nishikino, Hiroto Iwatsuki, Seiji Kojima (Dev. Biol. Sci., Grad. Sch. Sci., Nagoya Univ.)

3. Physiology / Structural biology -e. Secretion and transport

P1-057 (WS07-3)

Production of membrane vesicles and induction of anti-Gtfs antibody by *S. mutans* depending on Gtfs

○Tomoyo Nakamura^{1,2}, Yusuke Iwabuchi², Naoki Narisawa², Fumio Takenaga², Ryoma Nakao¹, Hidenobu Senpuku¹ (¹Grad. Sch. Bioresour. Sci., Nihon Univ., ²Dept. Bacteriol. 1, Nati. Inst. Infect. Dis.)

P1-058

Route of intrabacterial nanotransportation system for urease in *Helicobacter pylori*

○Hong Wu¹, Noritaka Iwai², Youichi Suzuki¹, Takashi Nakano¹ (¹Dept. Microbiology and Infection Control, Osaka Medical College, ²Grad. Sch. Bioscience and Biotechnology, Tokyo Institute of Technology)

3. Physiology / Structural biology -f. Others

P1-059

Characterization of mycobacteria-specific drug targets for development medical agents.

○Yukiko Oohara¹, Haruka Kobayashi¹, Yuriko Ozeki¹, Akihito Nishiyama¹, Yoshitaka Tateishi¹, Shujiro Okuda², Shigeki Kamitani³, Kengo Kitadokoro⁴, Sohkiichi Matsumoto¹ (¹Dept. Bacteriology. Niigata. Med. Univ., ²Bioinformatics. Lab. Niigata. Med. Univ., ³Grad. Sch. Comprehensive. Osaka Prefe. Univ., ⁴Dept. Biomolecular. Engineering. Sch. Kyoto. Technology)

P1-060

Existence of extracellular DNA in pathogenic mycobacteria and its role in mycobacterial physiology

○Aleksandr Ilinov^{1,2}, Amina Shaban¹, Mariko Hakamata¹, Akihito Nishiyama¹, Yuriko Ozeki¹, Yukari Fukushima³, Chie Nakajima³, Yoshitaka Tateishi¹, Yasuhiko Suzuki³, Sohkiichi Matsumoto¹ (¹Dept. Bacteriol., Sch. Med., Niigata Univ., ²Depr. General Surgery., Krasnoyarsk Univ., ³Division of Bioresources, Hokkaido Univ. Research Center for Zoonosis Control)

P1-061

Construction of a conditional gene expression system in *Porphyromonas gingivalis*

○Mikio Shoji, Takayuki Sueyoshi, Mariko Naito (Dept. Microbiol. Oral Infect., Sch. Bio. Sci., Nagasaki Univ.)

2. Ecology -a. Ecology, symbiosis and environmental microbes

P1-062

Prevalence of *Campylobacter* in broiler farms and wild animals

○Nachiko Takeshita¹, Mikuni Tokuyoshi¹, Kazuo Suzuki², Yoshihiro Nitta¹, Ai Takano³, Hiroshi Shimoda³, Ken Maeda^{3,4}, Takehisa Chuma⁵, Tadashi Miyashita¹, Tsutomu Sekizaki¹ (¹Grad. Sch. Agr. Life Sci., Univ. of Tokyo., ²Hikiiwa Park Center., ³Joint Fac. Vet. Med., Yamaguchi Univ., ⁴Natl. Inst. Infect. Dis., ⁵Joint Fac. Vet. Med., Kagoshima Univ.)

P1-063

Studies on Survival of *Vibrio cholerae* in Environment Water in Kolkata, India

○Keinosuke Okamoto¹, Paul S Subha¹, Shin-ichi Miyoshi², Asish K. Mukhopadhyay³, Kanungo Suman³, Shanta Dutta³, Eizo Takahashi¹ (¹Collaborative Research Center of Okayama Univ. for Infectious Diseases in India, ²Grad. Sch. Med. Dent. Pharm. Sci., Okayama Univ., ³NICED, Kolkata, India)

P1-064

Complete genome assembly of a symbiont *Rickettsia* from sandfly, *Sergentomyia squamirostris*

○Kentarō Itokawa¹, Akihiro Kuroki², Chizu Sanjoba², Tsuyoshi Sekizuka¹, Rina Tanaka¹, Daisuke Kobayashi³, Haruhiko Isawa³, Shinji Kasai³, Kyoko Sawabe³, Makoto Kuroda¹ (¹Pathogen Genomics Center, Nat. Inst. Infect. Dis., ²Dept. Agri., Tokyo Univ., ³Dept. Med. Entomol., Nat. Inst. Infect. Dis.)

P1-065

Survival of *Legionella pneumophila* into co-cultures with wild ciliates

○Torahiko Okubo¹, Airi Kawashiro¹, Shinji Nakamura², Jeewan Thapa¹, Hiroyuki Yamaguchi¹ (¹Fac. Health Sci., Hokkaido Univ., ²Div. Biomed. Imag. Res., Juntendo Univ. Grad. Sch. Med.)

2. Ecology -b. Microbiota

P1-066

Comprehensive bacterial microbiota analysis of the nasal discharge in children

○Kaoru Haro^{1,2}, Kazumasa Fukuda¹, Midori Ogawa¹, Mitsumasa Saito¹ (¹Dept. Microbiol., Sch. Med., UOEH., ²Dept. Pediatrics, Sch. Med., UOEH.)

P1-067

Analysis of oral and gut microbiome associated with atopic dermatitis, using purebred dog colony

○Asaka Unno¹, Ichiro Imanishi², Keiji Mizukami³, Takefumi Osumi², Hirotaka Igarashi¹, Hironobu Murakami¹, Ayaka Shima⁴, Yumi Une⁵, Masahiro Sakaguchi¹, Jumpei Uchiyama¹ (¹Vet., Azabu Univ., ²Tokyo Univ. of Agriculture and Technology., ³RIKEN, ⁴Anicom Specialty Medical Institute Inc., ⁵Vet., Okayama Univ. of Science)

P1-068

Identification of spore forming bacteria in intestine tract using germination activity of bile acids

○Masaru Tanaka, Sakura Onizuka, Yui Funatsu, Jiro Nakayama (Faculty of Agri., Kyushu Univ.)

P1-069

Comparison of skin microbiome profiles in healthy Cameroonian and Japanese people

○Ayaka Matsuoka¹, Kazuhiro Ogai², Takayuki Kuraishi³, Shigefumi Okamoto¹ (¹Dept. Clin. Lab. Sci., Kanazawa Univ. Grad. Sch. Med, Pharm, and Health Sci., ²Dept. Clin. Nurs., Kanazawa Univ. Grad. Sch. Med., Pharm. And Health Sci., ³Host Defense Responses Lab., Kanazawa Univ. Grad. Sch. Med., Pharm, and Health Sci.)

P1-070

Skin microbiome in bedridden patients, and association with the post pressure injuries infection.

○Satoshi Nagase¹, Kazuhiro Ogai², Tamae Urai³, Kana Shibata³, Kanae Mukai², Miki Matsue¹, Miku Aoki², Defa Alsandi², Junko Sugama³, Shigefumi Okamoto¹ (¹Dept. Clin Lab. Sci., Kanazawa Univ. Grad. Sch. Med., Pharm., and Health Sci., ²Dept. Clin. Nurs., Kanazawa Univ. Grad. Sch. Med., Pharm. And Health Sci., ³Inst. Front. Sci. Initiative, Kanazawa Univ.)

P1-071

The impact of gut microbiota in lung lesions by experimental infection with *Mycoplasma hyopneumoniae*

○Hiroki Matsumoto, Hideaki Toda, Ekitetsu In, Takanori Namimatsu (JA Zenroh Institute of Animal Health)

P1-072**The validity of fecal microbiota transplantation (FMT) in type 1 diabetic mice**

○Yoichiro Oka, Makoto Shimizu, Chihiro Tanaka (Dept. Res., Inst. Clin., FMT Co., Ltd.)

2. Ecology -c. Growth and culture conditions

P1-073**Heat resistance of spores formed by *Clostridium perfringens* and *Bacillus cereus***

○Masaya Ito¹, Masami Miyake², Mayo Yasugi², Akinobu Kajikawa³, Kenji Yokota³, Shizunobu Igimi³ (¹Dept. Agri. Chem., Grad. Sch. Agri., Tokyo Univ. Agri., ²Dept. Vet., Fac. Life Environ. Sci., Osakafu Univ., ³Dept. Agri. Chem., Fac. Appl. Biosci., Tokyo Univ. Agri.)

P1-074**Investigation to determine the factors responsible for desiccation tolerance on *Escherichia coli***

○Yoshiaki Enoeda, Ryota Ogura, Torahiko Okubo, Jeewan Thapa, Hiroyuki Yamaguchi (Fac. Health Science, Hokkaido Univ.)

P1-075**Expression of virulence factors in *Aggregatibacter actinomycetemcomitans* under various conditions**

○Ayumi Fujita^{1,2}, Yuichi Oogai², Hitoshi Komatsuzawa³, Kazuyuki Noguchi¹ (¹Dept. Periodontol., Kagoshima Univ., Grad. Sch. Med. and Dent. Sciences, ²Dept. Oral Microbiol., Kagoshima Univ., Grad. Sch. Med. and Dent. Sciences, ³Dept. Bacteriol., Hiroshima Univ. Inst. Biomed Health Sci.)

4. Genetics / Genomics / Biotechnology -a. Genomics, bioinformatics and systems biology

P1-076**WGS-based phylogenetic analysis of *M. avium*/intracellular complex isolated in Fukuoka**

○Jingushi Yujiro^{1,2}, Yasuhiro Gotoh¹, Keiji Nakamura¹, Katsuyuki Katahira^{1,3}, Yoshitoshi Ogura¹, Tetsuya Hayashi¹ (¹Dept. Bacteriology, Sch. Med., Kyushu Univ., ²Dept. Respiratory, Sch. Med., Kyushu Univ., ³Omuta Hosp)

P1-077**Genomic analysis of *Yersinia pseudotuberculosis* strains isolated from patients with Kawasaki disease**

○Kazuaki Yasuoka¹, Yumi Mizuno³, Keiji Nakamura², Yasuhiro Gotoh², Yoshitoshi Ogura², Shouichi Ohga¹, Toshiro Hara³, Tetsuya Hayashi² (¹Dept. Pediatrics, Grad. Sch. Medical Sciences, Kyushu Univ., ²Dept. Bacteriology, Grad. Sch. Medical Sciences, Kyushu Univ., ³Dept. Pediatrics, Fukuoka Child Hospital)

P1-078**Development of *Spiroplasma* swimming motor from bacterial actin, MreB**

○Daichi Takahashi¹, Makoto Miyata^{1,2} (¹Grad. Sch. Sci., Osaka City Univ., ²OCARINA, Osaka City Univ.)

P1-079**Phylogenetic classifier of bacterial genomes based on nucleotide pentamer profiles**

○Yoshio Nakano¹, Yusaku Domon², Kenji Yamagishi², Takayasu Watanabe¹ (¹Sch. Dent., Nihon Univ., ²Chem. Biol. and Appl. Chem. Course, Grad. Sch. Eng., Nihon Univ.)

P1-080**Compositional change of peri-implant microbiota after the implant placement**

○Masahiro Shimogishi¹, Takayasu Watanabe², Masaki Shibasaki¹, Yoshio Nakano², Shohei Kasugai¹, Ichiro Nakagawa³ (¹Dept. Oral Implantol. Regen. Med., Grad. Sch. Med. Dent. Sci., Tokyo Med. Dent. Univ., ²Dept. Chem., Sch. Dent., Nihon Univ., ³Dept. Microbiol., Grad. Sch. Med., Kyoto Univ.)

4. Genetics / Genomics / Biotechnology -b. Horizontal gene transfer, mobile genetic element and evolution

P1-081**Influence of temperature on cell-to-cell transformation in solid-air biofilms of *Escherichia coli***

○Mayuko Hashimoto, Haruka Hasegawa, Sumio Maeda (Dept. food Sci., Grad. Sch. Humanities and Sci., Nara Women's Univ.)

P1-082**Comprehensive detection of insertion sequences in bacterial genomes**

○Jun Hattori¹, Dai Yoshimura¹, Itsuki Taniguchi², Tetsuya Hayashi², Takehiko Itoh¹ (¹Sch. Life. Sci. Tech., Tokyo Tech., ²Dept. Bacteriol. Grad. Sch. Med., Kyushu Univ.)

P1-083**Comparison of FHL gene structure of hydrogen producing marine vibrio**

○Sayo Nishikawa¹, Mami Tanaka¹, Sayaka Mino¹, Tomoo Sawabe¹, Yoshitoshi Ogura², Tetsuya Hayashi² (¹Hokkaido Univ., ²Kyushu Univ.)

P1-084**Genomic features of *Rickettsia heilongjiangensis* isolated in Japan revealed by comparative analysis**

○Kentaro Kasama¹, Hiromi Fujita², Seigo Yamamoto³, Tadasuke Ooka⁴, Yasuhiro Gotoh¹, Yoshitoshi Ogura¹, Shuji Ando⁵, Tetsuya Hayashi¹ (¹Dept. Bacteriol., Sch. Med. Sci., Kyushu Univ., ²Mahara Akari Med. Lab., ³Frontier Sci. Res. Center, Miyazaki Univ., ⁴Dept. Infection Immunity, Sch. Med. Den. Sci., Kagoshima Univ., ⁵NIID)

P1-085**ISEcp1-mediated transposition of AMR genes by usage of various right terminal sequence.**

○Kouta Hamamoto^{1,2}, Toshiro Tokunaga¹, Nobuyoshi Yagi¹, Itaru Hirai¹ (¹Lab, Microbiol., Sch. Health. Sci., Univ. The Ryukyus, ²Research Fellow of Japan Society for the Promotion of Science DC1)

4. Genetics / Genomics / Biotechnology -c. Gene regulation and transcriptome analysis

P1-086**Identification of novel Hfq binding small non-coding RNA in *Pseudomonas aeruginosa***

○Kenichi Takasugi^{1,2}, Kotaro Chihara^{1,2}, Naohiro Noda^{1,2}, Satoshi Tsuneda¹ (¹Dept. Life Sci. Med. Biosci., Grad. Sch. Adv. Sci. Eng., Waseda Univ., ²Biomed. Res. Inst., Natl. Inst. Adv. Ind. Sci. Tech. (AIST))

P1-087**Feedback regulation of sRNA by RNA binding protein CsrA**

○Naoya Isomura, Takehiko Mima, Kazuyoshi Gotoh, Yumiko Yamamoto, Osamu Matsushita (Dept. Bacteriol., Okayama Univ. Grad. Sch. Med. Dent. Pham. Sci.)

P1-088**Characterization of an OxyR-deficient mutant of *Capnocytophaga ochracea***

○Yuichiro Kikuchi, Kazuko Shibayama, Eitoyo Kokubu, Kazuyuki Ishihara (Dept. Microbiol., Tokyo Dent Coll.)

P1-089**Posttranscriptional regulation of chitinase genes by small RNA ChiX in *Serratia***

○Kazushi Suzuki¹, Yujo Kojima¹, Naoki Munakata¹, Tomoya Kumaki², Kyoko Horii¹, Takuya Yamagisi¹, Hayuki Sugimoto^{1,2} (¹Grad. Sch. Sci. & Tech., Niigata Univ., ²Dept. Appl. Biol. Chem., Fac. Agric., Niigata Univ.)

4. Genetics / Genomics / Biotechnology -d. Genetic manipulation and analysis, biotechnology and synthetic biology

P1-090**Transposon mutagenesis as an approach to detect a novel immune molecule of *L. casei* IGM394**

○Mizuho Wakayama¹, Kazuya Masuda², Akinobu Kajikawa³, Kenji Yokota³, Shizunobu Igimi³ (¹Dept. Agri. Chem., Grad. Sch. Agri., Tokyo Univ. Agri., ²Dept. Food Sci. Nutr., Fac. Life Environ. Sci., Showa Womens Univ., ³Dept. Agri. Chem., Fac. Appl. Biosci., Tokyo Univ. Agri.)

P1-091**Development of gene recombination method for *Candida utilis* by CRISPR-CAS9**

○Yuta Yamauchi, Susumu Kajiwaru, Xinyue Chen (Dept. Life Engineering., Sch. Life Science., TIT.)

P1-092**Metabolic engineering for lipid utilization in *Clostridium perfringens***

○Miki Kato¹, Chinami Yano², Toshio Wada², Shigeru Miyata^{1,2} (¹Grad. Sch. Biosci. Biotech., Chubu Univ., ²Dept. Food Nutr. Sci., College Biosci. Biotech., Chubu Univ.)

P1-093**Construction of T7 expression vectors with signal sequence for Clostridial expression system**

○Riyuki Arakawa, Miki Kato, Shunya Sawairi, Shigeru Miyata (Dept. Food Nutr. Sci., College Biosci. Biotech., Chubu Univ.)

P1-094**Analysis of cellulase-related genes from *C. acetobutylicum* by *C. perfringens* expression system**

○Hiroki Kawahata¹, Hirofumi Nariya², Ryuichi Moriyama¹, Shigeru Miyata¹ (¹Coll. Biosci. Biotech., Chubu Univ., ²Grad. Sch. Biosphere Sci., Hiroshima Univ.)

P1-095**Expanding the genetic code of *Neisseria meningitidis* with unnatural amino acids**

○Hideyuki Takahashi¹, Makoto Ohnishi¹, Shigeyuki Yokoyama², Tatsuo Yanagisawa² (¹Dept. Microbiol I, Nat. Inst. Infect. Dis., ²Structural Lab., RIKEN)

4. Genetics / Genomics / Biotechnology -e. Others

P1-096**Large-scale and high-resolution comparative genomic analyses of the *Serratia marcescens* complex**

○Tomoyuki Ono^{1,2}, Keiji Nakamura¹, Yasuhiro Gotoh¹, Ruriko Nishida¹, Atsushi Iguchi³, Naomasa Gotoh⁴, Takehiko Itoh⁵, Yoshitoshi Ogura¹, Akira Shiose², Tetsuya Hayashi¹ (¹Dept. Bact., Fac. Med. Sci., Kyushu Univ., ²Dept. Cardiovasc. Sur., Fac. Med. Sci., Kyushu Univ., ³Dept. Hyg. Microbiol., Fac. Agr., Univ. Miyazaki, ⁴Dept. Microbiol. Infect. Control Sci., Kyoto Pharm. Univ., ⁵Grad. Sch. Biosci. Biotech., Tokyo Tech.)

P1-097**Genome-Wide Screening for Toxin-Antitoxin Systems in *Staphylococcus aureus***

○Fuminori Kato¹, Yoshihiro Yamaguchi², Masayori Inouye³ (¹Grad. Sch. Biomed. Heal. Sci., Hiroshima Univ., ²Grad. Sch. Sci., Osaka City Univ., ³CABM-Rutgers Univ.)

5. Pathogenicity -a. Adhesins and colonization factors

P1-098**Study of novel genotypes of Mfa1 fimbriae in *Porphyromonas gingivalis***

○Kotaro Sakae^{1,3}, Keiji Nagano², Naoya Higuchi¹, Kazuhiko Nakata¹, Yoshiaki Hasegawa³ (1Dept. Endod., Sch. Dent., Aichi-Gakuin Univ., 2Dept. Microbiol., Sch. Dent., Health Sciences Univ. Hokkaido, 3Dept. Microbiol., Sch. Dent., Aichi-Gakuin Univ.)

P1-099**The ability of binding to type IV collagen by clinical isolates of cnm positive *Streptococcus mutans***

○Yuri Taniguchi¹, Kazuhisa Ouhara¹, Masae Kitagawa², Hitoshi Komatsuzawa³, Hidemi Kurihara¹ (1Dept. Periodontal Medicine, Hiroshima Univ., 2Cent. Oral Clinical Examination, Hiroshima Univ. Hospital, 3Dept. Microbiol., Hiroshima Univ.)

P1-100**Matcha green tea enhances FimA fimbriae-dependent autoaggregation of *Porphyromonas gingivalis***

○Ayami Takatsuka^{1,2}, Naoki Narisawa², Tsuyoshi Ikeda³, Fumio Takenaga², Ryoma Nakao¹ (1Dept. Bacteriol. 1, Natl. Inst. Infect. Dis., 2Grad. Sch. Bioresour. Sci., Nihon Univ., 3Pharm. Sci., Sojo Univ.)

P1-101**Seroepidemiology on novel colonization factor of enterotoxigenic *E. coli* O169 in pigs and cattle**

○Miyoko Inoue^{1,2,3,4}, Donaming Zheng¹, Yuko Omori¹, Kana Komatsu¹, Yoshihiro Yamaguchi², Makoto Miyata², Takayuki Wada³, Hisashi Aso⁴, Eriko Kage-Nakadai¹, Yoshikazu Nishikawa¹ (1Grad. Sch. Human Life Sci., Osaka City Univ., 2Grad. Schl. Sci., Osaka City Univ., 3Inst. Trop. Med., Nagasaki Univ., 4Grad. Schl. Agri. Sci., Tohoku Univ.)

P1-102**Sensing systems of cell attachment in enterohemorrhagic *Escherichia coli* (EHEC)**

○Fumika Nakagawa, Tomomi Yamada, Hilo Yen, Toru Tobe (Osaka Univ., Grad. Sch. Med.)

P1-103**Cholesterol-dependent cytolysin-like adhesion molecule of Mitis group streptococci**

○Airi Matsumoto¹, Atsushi Tabata^{1,2}, Ayuko Takao³, Ken Kikuchi⁴, Toshifumi Tomoyasu^{1,2}, Nobuko Maeda³, Hideaki Nagamune^{1,2} (1Dept. Biol. Sci. & Tech., Life Syst., Inst. Tech. & Sci., Tokushima Univ. Grad. Sch., 2Div. Biosci. & Bioindust., Grad. Sch. Tech., Indust. & Social Sci., Tokushima Univ. Grad. Sch., 3Dept. Oral. Microbiol., Sch. Dept. Med., Tsurumi Univ., 4Dept. Infect. Dis. Tokyo Women's Med. Univ.)

P1-104**Function of fibronectin-binding proteins, FbpC and FbpD, and autolysin of *Clostridium perfringens***

○Seiichi Katayama¹, Shogo Emi², Riyo Aono², Tomomi Kawai², Nozomu Matsunaga¹, Eiji Tamai³, Hirofumi Nariya⁴, Tadashi Shimamoto⁴, Yasuo Hitsumoto¹ (1Dept. Life Sci., Grad. Sch. Sci., Okayama Univ. Sci., 2Dept. Life Sci., Grad. Sch. Sci., Okayama Univ. Sci., 3Dept. Infect. Dis., Coll. Pharm., Matsuyama Univ., 4Lab. Food Microbiol. Hyg., Grad. Sch. Integrated Sci. for Life., Hiroshima Univ.)

5. Pathogenicity -b. Toxins, effectors and physically active substances

P1-105**Optimization of culture conditions for the T3SS protein production in *Bordetella pertussis***

○Masataka Goto, Asaomi Kuwae, Akio Abe (Grad. Sch. Infection Control Sciences, Kitasato Univ.)

P1-106***Clostridium perfringens* α-toxin induces cytotoxic effect on endothelial cells**

○Hiroto Bandou, Masaya Takehara, Keiko Kobayashi, Masahiro Nagahama (Dept. Microbiol., Fac. Pharm. Sci., Tokushima Bunri Univ.)

P1-107**Identification of secreted hemolysin from *Malassezia globosa***

○Konomi Yamagiwa, Takashi Kanamori, Xinyue Chen, Hideya Yuasa, Susumu Kajiwar (Dept. Life Science. Technology., Tokyo Tech.)

P1-108**The mechanisms of pathogenicity by *Vibrio vulnificus***

○Natsumi Tokuyama, Mahoro Miyazaki, Megu Morita, Takahiro Tsuchiya, Katsushiro Miyamoto, Atsushi Komano (Dept. Microbiol. Infect. Cont., Osaka Univ. Pharm. Sci.)

P1-109**Characterization of infantilysin, a cholesterol-dependent cytolysin produced by *S. infantis***

○Chihiro Kodama¹, Atsushi Tabata^{1,2}, Toshifumi Tomoyasu^{1,2}, Ayuko Takao³, Nobuko Maeda³, Hideaki Nagamune^{1,2} (1Dept. Biol. Sci. & Tech., Inst. Tech. & Sci., Tokushima Univ., 2Div. Biosci. & Bioindust. Grad. Sch. Tech. Indust. & Social Sci., Tokushima Univ. Grad. Sch., 3Dept. Oral. Bacteriol., Tsurumi Univ.)

P1-110**Localization mechanism of *Legionella* effector Lpg1137**

○Misaki Murata, Mitsuo Tagaya, Kohei Arasaki (Sch. Life Sci., Tokyo Univ. Pharm. and Life Sci.)

P1-111**Group A streptococcus toxin NAD-glycohydrolase binds host phosphoinositide**

○Hirota Toh¹, Takashi Nozawa¹, Ichiro Nakagawa¹ (¹Dept. Microbiol., Grad. Sch. Med., Kyoto Univ., ²Dept. Microbiol., Grad. Sch. Med., Kyoto Univ.)

P1-112**Analysis of the interaction between host and Clostridium botulinum derived membrane vesicles.**

○Nobuhide Kobayashi, Takuhiro Matsumura, Masahiro Yutani, Sho Amatsu, Yukako Fujinaga (Dept. Bacteriol., Grad. Sch. Med., Kanazawa Univ.)

P1-113**MDP1 regulates metabolism and replication ensuring the survival of M. tuberculosis var BCG**

○Amina Shaban¹, Akihito Nishiyama¹, Yoshitaka Tateishi¹, Takehiro Yamaguchi¹, Yukiko Nishiuchi², Hayato Takihara³, Shujiro Okuda³, Sohkichi Matsumoto¹ (¹Dept. Bacteriol., Sch. Med., Niigata Univ., ²Toneyama Tuberculosis Research Institute., Osaka City Univ., ³Dept. Bioinformatics., Sch. Med., Niigata Univ.)

P1-114**Regulatory mechanism of toxic shock syndrome toxin-1 in clinically isolated Staphylococcus aureus**

○Yusuke Taki^{1,2}, Shinya Watanabe¹, Yusuke Sato¹, Feng-Yu Li¹, Kanate Thititanapakorn¹, Tanit Boonsiri¹, Yoshifumi Aiba¹, Kotaro Kiga¹, Teppei Sasahara¹, Longzhu Cui¹ (¹Div. Bacteriology, Sch. of Med., Jichi Med. Univ., ²Dept. Gastroenterological Surg. Shizuoka General Hosp.)

P1-115**The involvement of calcium influx on P. gingivalis gingipains-induced COX-2 expression**

○Masaaki Nakayama^{1,2}, Mariko Naito³, Koji Nakayama³, Naoya Ohara^{1,2} (¹Dept. Oral Microbiol., Okayama Univ. Grad. Sch. Med. Dent. Pharm. Sci., ²ARCOCS, Okayama Univ. Dent. Sch., ³Dept. Microbiol. Oral Infect., Nagasaki Univ. Grad. Sch. Biomed. Sci.)

P1-116**Characterization of bacterial proteases from Porphyromonas gulae strains**

○Urmi Alam², Hiroaki Inaba¹, Sho Yoshida¹, Ryota Nomura², Kazuhiko Nakano², Michiyo Matsumoto-Nakano¹ (¹Dept. Pediatr Dent., Okayama Univ., Grad. Sch. Med. Dent. Pharm. Sci., ²Dept. Pediatr Dent., Grad. Sch. Dent., Osaka Univ.)

P1-117**Characterization of the T7SS-dependent cytotoxicity in Streptococcus intermedius pathogenicity.**

○Masanori Hashino, Tsuyoshi Sekizuka, Makoto Kuroda (Pathogen Genomics Center, Nat. Inst. Infect. Dis.)

P1-118**Redox regulation in pathogenicity of Subtilase cytotoxin**

○Hiroyasu Tsutsuki¹, Tianli Zhang¹, Katsuhiko Ono¹, Kinnosuke Yahiro², Sunao Iyoda³, Makoto Ohnishi³, Takaaki Akaike⁴, Tomohiro Sawa¹ (¹Dept. Microbiol., Grad. Sch. Med. Sci., Kumamoto Univ., ²Dept. Mol. Infectiol., Grad. Sch. Med., Chiba Univ., ³Dept. Bacteriol. I, Natl. Inst. Infect. Dis., ⁴Dept. Environ. Med. Mol. Toxicol., Tohoku Univ., Grad. Sch. Med.)

P1-119**Microvesicles released from Staphylococcus aureus induce inflammatory response and pyroptosis**

○Krisana Asano^{1,2}, Shouhei Hirose^{1,2}, Kouji Narita^{1,3}, Akio Nakane² (¹Dept. Microbiol. Immunol., Hirosaki Univ. Grad. Sch. Med., ²Depart. Biopolym. Health Sci., Hirosaki Univ. Grad. Sch. Med., ³Inst. Anim. Exp., Hirosaki Univ. Grad. Sch. Med.)

5. Pathogenicity -c. Cell invasion and intracellular parasitism

P1-120**Hypoxia prompts Chlamydia trachomatis L2 growth in epithelial cells via activating PI3K-AKT pathway**

○Riyoya Tujikawa, Jeewan Thapa, Kento Hashimoto, Torahiko Okubo, Hiroyuki Yamaguchi (Dept. Med. Lab. Sci., Fac. of Health Sci., Hokkaido Univ.)

P1-121**Bordetella bronchiseptica utilizes Acanthamoeba castellanii as a temporal niche**

○Dendi Krisna Nugraha¹, Hiroyuki Yamaguchi², Yasuhiko Horiguchi¹ (¹Dept. Mol. Bact., RIMD, Osaka Univ., ²Fac. Health Sci., Hokkaido Univ.)

P1-122**Evaluation of adhesion and invasion of L. monocytogenes to human intestinal epithelial cells**

○Hiroyuki Chiba¹, Kazuya Masuda², Satoshi Futo³, Yuzuru Nakaso³, Kazuto Takasaki³, Akinobu Kajikawa⁴, Kenji Yokota⁴, Shizunobu Igimi⁴ (¹Dept. Agri. Chem., Grad. Sch. Agri., Tokyo Univ. Agri., ²Dept. Food Sci. Nutr., Fac. Life. Environ. Sci., Showa Womens Univ., ³Fasmac Co., Ltd., ⁴Dept. Agri. Chem., Fac. Appl. Biosci., Tokyo Univ. Agri.)

P1-123**A. actinomycetemcomitans induces inflammasome activation via lysosomal degradation**

○Tokuju Okano, Toshihiko Suzuki (Dept. Bact. Patho. Infect. Host Resp. Grad. Sch. Med. and Dent. Sci. Tokyo Med. Dent. Univ. (TMDU))

P1-124**The mechanism and regulation system of invasion of *Mycoplasma bovis* into bovine synovial tissue**

○Koji Nishi¹, Satoshi Gondaira¹, Tomohito Iwasaki², Takahumi Watanabe³, Jumpei Fujiki⁴, Hidetomo Iwano⁴, Hidetoshi Higuchi¹ (¹Anim. Health, Rakuno Gakuen Univ., ²Appl. Biochem., Rakuno Gakuen Univ., ³Vet. Anat., Rakuno Gakuen Univ., ⁴Vet. Biochem., Rakuno Gakuen Univ.)

P1-125**Multidrug-resistant *A. baumannii* resists reactive oxygen species and survives in macrophages**

○Yoshinori Sato, Satoshi Nishida, Takane Kikuchi-Ueda, Shigeru Tansho-Nagakawa, Tsuneyuki Ubagai, Yasuo Ono (Dept. Microbiol. Immunol., Sch. Med., Teikyo Univ.)

5. Pathogenicity -d. Immune escape and proliferation in hosts

P1-126**Role of pneumococcal surface protein BgaA in the pathogenesis**

○Moe Takemura, Masaya Yamaguchi, Yujiro Hirose, Tomoko Sumitomo, Masanobu Nakata, Shigetada Kawabata (Dept. Oral Mol. Microbiol., Grad. Sch. Dent., Osaka Univ.)

P1-127**Genes implicated in the suppression of IL-8 secretion by diffusely adherent *Escherichia coli***

○Ayana Takaura¹, Yoshihiko Tanimoto¹, Atsuyuki Odani¹, Sae Shinya¹, Tomonori Kamiya², Naoko Ohtani², Yoshihiro Yamaguchi³, Tomomi Komura⁴, Eriko Kage-Nakadai¹, Yoshikazu Nishikawa¹ (¹Grad. Schl. Human Life Sci., Osaka City Univ., ²Grad. Schl. Med., Osaka City Univ., ³Grad. Schl. Sci., Osaka City Univ., ⁴Fac. Human Life Env., Nara Women's Univ.)

P1-128***Elizabethkingia anophelis* OKUH1 resist to phagocytosis of J774 macrophage**

○Bayu Mayura I Putu¹, Kazuyoshi Gotoh¹, Takehiko Mima¹, Yumiko Yamamoto¹, Kenji Yokota², Osamu Matsushita¹ (¹Dept. Bacteriol., Grad. Sch. Med. Dent. Pharm Sci., Okayama Univ., ²Grad. Sch. Health Sci., Okayama Univ.)

5. Pathogenicity -e. Infection models

P1-129**The effect of *Ureaplasma parvum* infection on the function and morphology of mouse sperm**

○Kazutoshi Ito, Michinobu Yoshimura, Heng Ning Wu, Itaru Yanagihara (Dept. Dev. Med., Res. Inst., Osaka Women's and Children's Hospital)

P1-130**Mechanisms of suppressed swimming motility by quorum sensing of *Ralstonia solanacearum***

○Wakana Senuma¹, Chika Takemura¹, Akinori Kiba¹, Kouhei Ohnishi¹, Kenji Kai², Yasufumi Hikichi¹ (¹Fac. Agric and Marine Sci., Kochi, ²Sch. Life and Environment. Sci., Osaka Pref. Univ.)

P1-131**Construction of in vitro model for investigating the immune response in human gut**

○Ryohei Matsuura, Shun Iwatani, Susumu Kajiwarra (Sch. Life Science and Technology, Tokyo Institute of Technology)

P1-132**Occurrence of hyper-virulent mutation in *S. pyogenes* during mouse infection**

○Mei Horino^{1,2}, Ayae Nishiyama³, Norihiko Takemoto¹, Shinya Watanabe⁴, Tohru Miyoshi-Akiyama¹ (¹Pathogenic Microbe Lab., Dept. Infectious Diseases, NCGM, ²Tokyo College Of Biotechnology, ³Bacterial Infection Lab., Dept. Infectious Diseases, NCGM, ⁴Div. Bacteriol., Dept. Infect. Immunity, Sch. Med., Jichi Med. Univ.)

P1-133**Investigation for pathogenesis of *P. bifermentans* subsp. *muricolitidis* on colitis model**

○Ryo Kutsuna, Junko Tomida, Yoshiaki Kawamura (Dept. Microbiol., Sch. Pharm., Aichi Gakuin Univ.)

P1-134**Involvement of adhesion and motility in pathogenicity of *Leptospira***

○Jun Xu¹, Nobuo Koizumi², Shuichi Nakamura³ (¹Grad. Sch. Agric. Sci., Tohoku Univ., ²Dept. Bacteriol. I, NIID, ³Grad. Sch. Eng., Tohoku Univ.)

P1-135**Investigation of the domain of *Escherichia coli* FliC developing type 1 autoimmune pancreatitis**

○Satoko Omachi¹, Toshifumi Osaka^{1,2}, Hidehiro Ueshiba², Satoshi Tsuneda¹, Naoko Yanagisawa² (¹Dept. Life Sci. Med. Biosci., Waseda Univ., ²Dept. Microbiol. Immunol., Tokyo Women's Med. Univ.)

P1-136**Biological effects of *Fusobacterium nucleatum* strains with different autoinducer-2 productivities**

○Arisa Shiozaki¹, Toshifumi Osaka^{1,2}, Hidehiro Ueshiba², Satoshi Tsuneda¹, Junji Yagi², Naoko Yanagisawa² (¹Dept. Life Sci. Med. Biosci., Grad. Sch. Adv. Sci. Eng., Waseda Univ., ²Dept. Microbiol. Immunol., Tokyo Wom. Med. Univ.)

P1-137

The valancing selection of *phcBSRQ* operon on the quorum sensing of *Ralstonia solanacearum*

○Chika Takemura¹, Wakana Senuma¹, Akinori Kiba¹, Kouhei Ohnishi¹, Kenji Kai², Yasufumi Hikichi¹ (¹Fac. Agric and Marine Sci., Kochi Univ., ²Sch. Life and Environment. Sci., Osaka Pref. Univ.)

5. Pathogenicity -f. Others

P1-138

Regulation of cell division by DnaK chaperone system in *Salmonella* pathogenesis

○Tatsunari Yokoi¹, Hiroto Kawashima¹, Tomoko Yamamoto², Akiko Takaya¹ (¹Dept. Microbiol. Immunol., Grad. Sch. Pharm. Sci., Chiba Univ., ²MMRC, Chiba Univ.)

P1-139

Molecular mechanism underlying resistance to *S.aureus* conferred by *B. subtilis* (natto) in *C. elegans*

○Yumi Matsumoto, Rina Katayama, Yukina Higashi, Simo Sun, Yoshikazu Nishikawa, Eriko Nakadai (Sch. Human Life Science., Osaka City Univ.)

P1-140

Toxin-antitoxin systems preferentially repress virulence gene expression in EHEC O157:H7

○Shinya Ebihara, Hilo Yen, Toru Tobe (Osaka Univ., Grad. Sch. Med.)

P1-141

Identification and characterization of skin bacteria involved in skin carcinogenesis in mice

○Ken Uemura, Shimpei Kawamoto, Masahiro Wakita, Olivia Koyama, Chihaya Hara, Eiji Hara (Dept. Mol. Microbiol., RIMD, Osaka Univ.)

P1-142

Hydrophobicity in the conidiospore of human pathogenic fungi as the possible pathogenic factor.

○Nodoka Koide¹, Chiharu Kawasaki¹, Maya Oshima¹, Takashi Tamura², Mohamed Mahdi Alshahni³, Koichi Makimura^{2,3} (¹Sch. Med., Teikyo Univ., ²Gen. Med. Educ. Rec. Center, Teikyo Univ., ³Lab. Med. Mycol., Grad. Sch. Teikyo Univ.)

P1-143

Role of the gastric commensal bacteria progressing gastric cancer in cooperation with *H. pylori*

○Hitoshi Tsugawa¹, Makoto Suematsu¹, Hidekazu Suzuki² (¹Dept. Biochem., Keio Univ., Sch. Med., ²Dept. Gastroenterol. Hepatol., Tokai Univ., Sch. Med.)

P1-144

Evasion of neutrophil phagocytosis via polysaccharide expression in biofilm dispersed bacteria

○Akiko Tajima¹, Yuki Kinjo^{1,2} (¹Dept. Bacteriol., The Jikei Univ. Sch. Med., ²Jikei Ctr. Biofilm Sci. & Tech.)

6. Host defense -a. Innate immunity

P1-145

A molecular mechanism of IL-1b inhibition by mycobacterial effector protein

○Tomomi Kurane¹, Kazuko Sawada², Giichi Takaesu^{1,2}, Masayuki Umemura^{1,2}, Goro Matsuzaki^{1,2} (¹Dept. Host Defense, Grad. Sch. Med., Univ. of the Ryukyus, ²Mol. Microbiol. Group, Tropical Biosphere Research Center, Univ. of the Ryukyus)

P1-146

Effect of LL-37, a human antimicrobial peptide, on autophagy and cell death of endothelial cells

○Kaori Suzuki, Mari Ohkuma, Isao Nagaoka (Dept. Host Defense and Biochemical Research, Juntendo Univ. Sch. Med.)

P1-147

Inhibition of LPS-induced inflammatory reactions by *Sasa veitchii* constituents and derivatives

○Yinzh Lin¹, Hitomi Fukatsu², Shiori Kojima², Kazuo Umezawa³, Naoki Koide¹ (¹Dept. Microbiol. Immunol., Sch. Med., Aichi Med. Univ., ²Fukuyu Med. Instu., ³Dept. Mol. Target, Sch. Med., Aichi Med. Univ.)

P1-148

Reactive sulfur remodeling by NADPH oxidase and host defense mechanism

○Tomoaki Ida¹, Tetsuro Matsunaga¹, Masanobu Morita¹, Tsuyoshi Takata¹, Hozumi Motohashi², Hideki Sumimoto³, Takaaki Akaike¹ (¹Dept. Environ. Med. and Mol. Toxi., Grad. Sch. Med., Tohoku Univ., ²Tohoku Univ., IDAC., ³Kyusyu Univ., Med., Mol. and Cell. Biol.)

6. Host defense -b. Acquired immunity, vaccines and prevention and control of infections

P1-149

Immunological analysis of a protein-based pneumococcal vaccine mediated by NKT cell activation

○Shun Kawakubo^{1,2}, Shogo Takatsuka¹, Koji Hayashizaki^{1,3,4}, Haruko Takeyama², Kazunori Oishi⁵, Yoshitsugu Miyazaki², Yuki Kinjo^{3,4} (¹Nat. Inst. Infect. Dis., ²Waseda Univ., ³Jikei Univ. Sch. Med., ⁴Jikei Cent. Biofilm Sci. Tech., Jikei Univ. Sch. Med., ⁵Toyama Pref. Inst. Publ. Health)

P1-150**Examination of adverse reaction risk to vaccine in atopic dermatitis dogs.**

○Ryosuke Sugimoto¹, Hidekatsu Shimakura¹, Jumpei Uchiyama¹, Toshihiro Tsukui², Masato Fujimura³, Masahiro Sakaguchi¹ (¹Dept. Microbiol., Sch. Vet., Azabu Univ., ²Nippon Zenyaku Kogyo Co. Ltd., ³Fujimura Animal Hospital)

P1-151**Antigenicity of a tuberculosis booster vaccine for BCG-vaccinated healthy individuals.**

○Yuriko Ozeki¹, Akira Yokoyama¹, Daisuke Hayashi², Toshiko Yamamoto², Shinji Ohishi², Sumiko Iho¹, Junichi Maeyama³, Akihito Nishiyama¹, Yoshitaka Tateishi¹, Saburo Yamamoto², Sohkiichi Matsumoto¹ (¹Dept. Bacteriol. Grad. Sch. Med., Niigata Univ., ²Japan BCG Lab, ³NIID)

P1-152**Therapeutic potential of an endolysin derived from bacteriophage S25-3 for Staphylococcal impetigo**

○Ichiro Imanishi¹, Jumpei Uchiyama², Toshihiro Tsukui³, Junzo Hisatsune⁴, Kaori Ide¹, Shigenobu Matsuzaki⁵, Motoyuki Sugai⁴, Koji Nishifuji¹ (¹Tokyo Univ. Agric. Technol., ²Azabu Univ., ³Zenyaku Kogyo Co., ⁴Natl. Int. Infect. Dis., ⁵Kochi Univ.)

P1-153**Eosinophils are the main cellular target for DNA delivery from orally administrated *L. lactis***

○Daiki Yanagisawa, Nozomi Orito, Keita Takahashi, Nagisa Tokunoh, Naoki Inoue (Dept. Microbiol. Immunol., Gifu Pharmaceutical Univ.)

P1-154**Evaluation of the mucosal vaccine system using bacterium-like particles prepared from *L. lactis***

○Nagisa Tokunoh, Keita Takahashi, Nozomi Orito, Daiki Yanagisawa, Naoki Inoue (Dept. Microbiol. Immunol., Gifu Pharmaceutical Univ.)

P1-155**Doxycycline inhibits Th2 cell development and exerts a therapeutic effect on atopic dermatitis**

○Katsuhiko Matsui, Yuki Nojima, Yuka Kajiwara, Kana Busujima, Yuki Mori (Dept. Clin. Immunol., Meiji Pharm. Univ.)

P1-156**Production and adjuvant effect of recombinant botulinum hemagglutinin**

○Hiroki Shinohara¹, Hidekazu Nagai¹, Yukako Fujinaga², Tomoko Kobayashi¹, Yasushi Torii¹ (¹Dept. Animal Sci., Tokyo Univ. Agri., ²Dept. Microbiol., Sch. Med., Sci., Kanazawa Univ.)

6. Host defense -c. Others**P1-157****NDM-1-producing *Acinetobacter pittii* ST220 presumably originated from hospital environment**

○Wataru Hayashi¹, Hayato Tanaka², Eriko Arai³, Tatsuya Natori³, Kazuki Horiuchi³, Go Matsumoto³, Masaki Iimura², Eiji Soga², Yukiko Nagano⁴, Noriyuki Nagano^{1,2} (¹Dept. Med. Sci., Grad. Sch. Med. Sci. and Technol., Shishu Univ., ²Dept. Med. Sci., Grad. Sch. Med., Shishu Univ., ³Dept. Clin. Lab., Shishu Univ. Hosp., ⁴Dept. Bacteriol., Grad. Sch. Med., Nagoya Univ.)

P1-158**Effect of S-PRG filler on *Candida albicans* adhesion and possible improvement of QOL in the elderly**

○Yu Kono^{1,2}, Muneai Tamura^{3,4}, Keiko Nodomi³, Noriaki Kamio^{3,4}, Kenichi Imai^{3,4} (¹Div. Oral Struct. Funct. Sci., Nihon Univ. Sch. Dent. Grad. Sch. Dent., ²Dept. Oral Surg., Nihon Univ. Sch. Dent., ³Dept. Microbiol., Nihon Univ. Sch. Dent., ⁴Div. Immunol. Pathobiol., Dent. Res. Cent., Nihon Univ. Sch. Dent.)

P1-159**Effects of membrane damage and efflux system on bisphenol A resistance in opportunistic bacteria**

○Tsunemoto Kaga¹, Manabu Mochizuki², Toshiyuki Nikata¹, Yasuzo Sakai¹ (¹Dept. Material and Environ. Chem., Grad. Sch. Eng., Utsunomiya Univ., ²Dept. Appl. Chem., Fac. Eng., Utsunomiya Univ.)

P1-160**Drug resistant patterns of *Salmonella* spp. isolated from poultry yards in western Japan.**

○Tomoya Yamamoto¹, Hajime Toyofuku², Tomoko Mizote¹ (¹Dept. Food Hygiene, Yamaguchi Pref. Univ., ²Dept. Veter. Med. Yamaguchi Univ.)

P1-161 *Presentation date is changed to Feb 20.**Application of Effective Bacteriophage Therapy to *Staphylococcus aureus***

○Junya Kitana¹, Tomohiro Nakamura¹, Monby Montgomery¹, Jumpei Fujiki¹, Hidetoshi Higuchi², Masaru Usui³, Yutaka Tamura⁴, Hidetomo Iwano¹ (¹Lab. of Vet. Biochem., Dept. Vet. Med., RGU, ²Lab. of Vet. Hygiene, Dept. Vet. Med., RGU, ³Lab. of Vet. Food Hygiene, Dept. Vet. Med., RGU, ⁴Cent. for Vet. Drug Development., RGU)

P1-162**Resistant mechanisms of aminoglycosides & new quinolones in clinical isolated *Pseudomonas aeruginosa***

○Masaya Endou¹, Kenshou Torimaru¹, Daichi Morita^{1,2}, Shizuo Kayama^{3,4,5}, Takanori Kumagai^{1,2}, Motoyuki Sugai^{3,4,5}, Teruo Kuroda^{1,2} (¹Sch. Phar., Hiroshima Univ., ²Dept. Microbiol., Grad. Sch. Biomed. Heal. Sci., Hiroshima Univ., ³Anti. Resis. Res. Cent., Nat. Inst. Infect. Dis., ⁴Proj. Res. Cent. Noso. Infect. Dis., Hiroshima Univ., ⁵Dept. Anti. Res., Grad. Sch. Biomed. Heal. Sci., Hiroshima Univ.)

P1-163**Oxidative stress by the addition of antibiotics in *Pseudomonas aeruginosa***

○Rina Murata (Dept. Oral Microbiol., Biomed. Sci., Tokushima Univ., Dept. Mol., Microbiol., Biomed. Sci., Tokushima Univ.)

P1-164**Emergence of *vanD5*-type vancomycin-resistant *Enterococcus faecium* via horizontal genomic transfer**

○Toyotaka Sato¹, Takayuki Wada², Yukari Fukushima³, Chie Nakajima³, Yasuhiko Suzuki³, Satoshi Takahashi^{4,5}, Shin-ichi Yokota¹ (¹Dept. Microbiol., Sch. Med., Sapporo Med. Univ., ²Dept. Int. Health., Ins. Tropic. Med., Nagasaki Univ., ³Div. Biores., Hokkaido Univ. Res. Cent. Zoo. Cont., ⁴Div. Lab. Med., Sapporo Med. Univ. Hospital, ⁵Dept. Infect. Cont. Lab. Med., Sch. Med., Sapporo Med. Univ.)

P1-165**Antimycobacterial Activities of Lysocin E Against Mycobacterial Species In Vitro**

○Gebremichal Gebretsadik¹, Akane Inaizumi¹, Akihito Nishiyama¹, Takehiro Yamaguchi³, Yuriko Ozeki¹, Yoshitaka Tateishi¹, Hiroshi Hamamoto⁴, Kazuhisa Sekimizu⁴, Sohkiichi Matsumoto¹ (¹Dept. Bacteriol., Sch. Med., Niigata Univ., ²Dept. Biomedical science., Assossa Univ., ³Dept. Pharmacol., Sch. Med., Osaka City Univ., ⁴Institute Medical Mycology., Teikyo Univ.)

P1-166**Transferability of carbapenemase in *Acinetobacter* sp. and *Pseudomonas* sp. isolated from environment**

○Yuki Suzuki¹, Ryuichi Nakano¹, Pearl Joy Nazareno², Akiyo Nakano¹, Yuki Minamoto¹, Naoki Kakuta¹, Saori Horiuchi¹, Risako Kakuta^{1,3}, Kazutoshi Nakashima⁴, Hisakazu Yano¹ (¹Dept. Microbiology and Infectious Diseases, Nara Medical Univ., ²Dept. Microbiology, Research Institute for Tropical Medicine, ³Dept. Otolaryngology-Head and Neck Surgery, Tohoku Univ. Grad. Sch. Medicine, ⁴Faculty of Sports and Health Science, Daito Bunka Univ.)

P1-167**Na⁺ V-ATPase is a new target for drug development against Vancomycin-resistant Enterococcus (VRE)**

○Kouki Shimizu¹, Fabiana Lica Yakushiji¹, Katsuhiko Moriyama¹, Yoshiyuki Goto^{2,3}, Takeshi Murata¹ (¹Grad. Sch. Sci., Chiba Univ., ²MMRC, Chiba Univ., ³IMS, Univ. Tokyo)

P1-168**Screening azole resistance of *Candida auris* by replica method**

○Takashi Tamura^{1,2}, Koichi Makimura^{1,2} (¹Gen. Med. Educ. Rec. Center, Teikyo Univ., ²Lab. Med. Mycol., Grad. Sch. Teikyo Univ.)

P1-169***mprF* mutation confers dual resistance to daptomycin and vancomycin in MRSA**

○Kanate Thitiananpakorn, Yoshifumi Aiba, Shinya Watanabe, Yusuke Sato'o, Kotaro Kiga, Tanit Boonsiri, XinEe Tan, Feng-Yu Li, Longzhu Cui (Div. Bacteriol., Jichi Med. Univ.)

P1-170**Antibiotic susceptibility and genotype of *Mycobacterium avium* subsp. *hominissuis***

○Keiichi Uchiya¹, Taku Nakagawa², Kenji Ogawa², Toshiaki Nikai¹ (¹Dept. Microbiol., Fac. Pharm., Meijo Univ., ²Dept. Respir. Med., NHO Higashinagoya Hosp.)

P1-171**Crystal structure of AmpC β -lactamase isolated from *Enterobacter cloacae* clinical strain Ent385**

○Akito Kawai¹, Christi L. McElheny², Alina Iovlva², Vaughn S. Cooper^{3,4}, Ryan K. Shields^{2,4}, Yohei Doi^{1,2,4,5} (¹Dept. Microbiol., Fujita Health Univ. Sch. Med., ²Div. of Infect. Dis., Univ. of Pittsburgh Sch. Med., ³Dept. Microbiol. and Mol. Genet., Univ. of Pittsburgh Sch. Med., ⁴CIAT, Univ. of Pittsburgh Sch. Med., ⁵Dept. Infect. Dis., Fujita Health Univ. Sch. Med.)

P1-172**Effect of Ethylenediaminetetraacetic Acid on *Haemophilus influenzae* Colony Biofilms**

○Kazuki Kitaoka¹, Satoshi Tsuneda^{1,2} (¹Dept. Nano Life Innov., Waseda Univ., ²Dept. Life Sci. Med. Biosci., Waseda Univ.)

P1-173**Antimicrobial resistance and antimicrobial production of bacteria derived from Japanese honey**

○Mariko Okamoto¹, Daisuke Takamatsu^{1,2} (¹Natl. Inst. Anim. Hlth., NARO, ²Utd. Grad. Sch. Vet. Sci., Gifu Univ.)

7. Antimicrobial agents and resistance

-a. Antimicrobial agents

P1-174

Examination of bactericidal effect of ozone water on biofilm. -Effectiveness against oral bacteria-

○Masahiro Murakami^{1,2,3}, Keiji Nagano², Yoshiaki Hasegawa³, Daisuke Kato¹, Hiroshi Murakami¹ (¹Dept. Gerodontology, Sch. Dent., Aichi-Gakuin Univ., ²Dept. Microbiol., Sch. Dent., Health Sciences Univ. Hokkaido, ³Dept. Microbiol., Sch. Dent., Aichi-Gakuin Univ.)

P1-175

A new measuring method for antimicrobial activity of lauric acid against various human gut microbes

○Miki Matsue¹, Yumiko Mori¹, Satoshi Nagase¹, Kohei Ogura², Kazuhiro Ogai³, Yuta Sugiyama⁴, Rika Hirano⁴, Shin Kurihara⁴, Shigefumi Okamoto¹ (¹Dept. Clin. Lab. Sci., Kanazawa Univ., Grad. Sch. Med., Pharm., and Health Sci., ²Inst. Front. Sci., Kanazawa Univ., ³Dept. Nurse, Kanazawa Univ., Grad. Sch. Med., Pharm., and Health Sci., ⁴Inst. Bioresources, Biotech., Ishikawa Pref. Univ.)

P1-176

Peptide-inspired artificial antimicrobial oligosaccharide against drug-resistant bacteria

○Hatsuo Yamamura¹, Hisato Kato², Takashi Katsu², Kazufumi Masuda², Kayo Osawa³, Atsushi Miyagawa¹ (¹Grad. Sch. Eng., Nagoya Inst. Tech., ²Sch. Pharmacy, Shujitsu Univ., ³Grad. Sch., Health Sci., Kobe Univ.)

P1-177

Comparison of sensitivity to chlorhexidine between genus *Bacillus* species

○Akira Okamoto (Sch. Health Sciences, Aichi Univ. Edu.)

P1-178

Anti-microbial effects of Disulfiram to *Helicobacter pylori*

○Kenji Yokota¹, Tomomi Kobatake¹, Aina Ichihara¹, Takehiko Mima², Yumiko Yamamoto², Kazuyoshi Gotoh², Osamu Matsushita² (¹Grad. Sch. Health Science, Okayama Univ., ²Dept. Bacteriology, Grad. Sch. Medicine, Dentistry and Pharmaceutical Sciences, Okayama Univ.)

7. Antimicrobial agents and resistance

-b. Antimicrobial resistance

P1-179

Detection, isolation, and analysis of carbapenemase genes on the surface of retail spices

○Minako Mochizuki¹, Mariya Ueda², Shiori Nakaoka², Miyuki Nakatani², Sumio Maeda^{1,2} (¹Dept. food Sci., Grad. Sch. Humanities and Sci., Nara Women's Univ., ²Faculty. of Hun. Life and Environ., Nara Women's Univ.)

P1-180

Analysis of persister cell formation in bacterial biofilms: its memory effect and mutant analysis

○Tomoka Urushidani¹, Yoko Komiyama¹, Saki Miyaue¹, Erika Suzuki¹, Yu Kondo², Miki Morikawa², Sumio Maeda^{1,2} (¹Dept. food Sci., Grad. Sch. Humanities and Sci., Nara Women's Univ., ²Faculty. of Hun. Life and Environ., Nara Women's Univ.)

P1-181

Enhanced antibiotic resistance due to multiplied blaIMP-6 genes in a plasmid

○Ryuichiro Abe¹, Yukihiro Akeda^{1,2}, Yo Sugawara¹, Ryuji Kawahara³, Norihisa Yamamoto¹, Kazunori Tomono², Shigeyuki Hamada¹ (¹RCC-ERI, RIMD, Osaka Univ., ²Dept. Infect. Cont. Prevent., Med. Hosp., Osaka Univ., ³Div. Microbiol., Osaka Inst. Public Health)

P1-182

Analysis of *mcr-1* plasmid-mediated colistin resistant *E. coli* isolated from livestock in Japan

○Akiyo Nakano, Ryuichi Nakano, Yuki Suzuki, Risako Kakuta, Saori Horiuchi, Naoki Kakuta, Mako Watanabe, Kai Saito, Hisakazu Yano (Dept. Microbiol. Infect. Dis., Nara Med. Univ.)

P1-183

Cocarrriage of *mcr-1* and APEC-associated virulence genes in *E. coli* isolates from wastewater influent

○Wataru Hayashi¹, Hayato Tanaka², Masaki Iimura², Eiji Soga², Ryoichi Kubo³, Kumiko Kawamura⁴, Yoshichika Arakawa⁵, Yukiko Nagano⁵, Noriyuki Nagano^{1,2} (¹Dept. Med. Sci., Grad. Sch. Med. Sci. and Technol., Shishu Univ., ²Dept. Med. Sci., Grad. Sch. Med., Shishu Univ., ³Kanto Chemical Co., Inc., ⁴Dept. Pathophysiol. Sci., Grad. Sch. Med., Nagoya Univ., ⁵Dept. Bacteriol., Grad. Sch. Med., Nagoya Univ.)

P1-184

Whole genome sequencing for the molecular characterization of *Klebsiella pneumoniae* isolates

○Rina Nonogaki¹, Masahiro Suzuki², Yoshichika Arakawa³, Kumiko Kawamura¹ (¹Dept. Pathophysiological Laboratory Science, Nagoya Univ. Grad. Sch. Med., ²Dept. Microbiol. Fujita Health Univ., ³Dept. Bacteriology, Nagoya Univ. Grad. Sch. Med.)

P1-185**Study on β -lactamase genes in *Prevotella* -their relation to antibiogram-**

○Sodai Yokoyama, Masahiro Hayashi, Kaori Tanaka (Division of Anaerobe Research Life Science Research Center, Gifu Univ.)

P1-186**Emergence of CTX-M-64, CTX-M-123 chimeric ESBL-producing *Escherichia coli* in wastewater environment**

○Hayato Tanaka¹, Wataru Hayashi², Masaki Iimura¹, Eiji Soga¹, Kumiko Kawamura³, Yoshichika Arakawa⁴, Yukiko Nagano⁴, Noriyuki Nagano^{1,2} (¹Dept. Med. Sci., Grad. Sch. Med., Shinshu Univ., ²Dept. Med. Sci., Grad. Sch. Med. Sci. and Technol., Shinshu Univ., ³Dept. Pathophysiol. Sci., Gra. Sch. Med., Nagoya Univ., ⁴Dept. Bacteriol., Grad. Sch. Med., Nagoya Univ.)

P1-187**Analysis of low level linezolid resistant enterococci isolated from chicken**

○Takahiro Nomura¹, Koichi Tanimoto², Haruo Watanabe³, Haruyoshi Tomita^{1,2} (¹Dept. Bacteriol., Grad. Sch. Med. Gunma Univ., ²Lab. Bacterial Drug Res., Grad. Sch. Med., Gunma Univ., ³IUHW Sch. Medicine, Public Health)

P1-188**Genetic analysis of a novel *optrA*-harboring plasmid in an *Enterococcus faecalis* clinical isolate**

○Masaki Iimura¹, Wataru Hayashi², Eriko Arai³, Tatsuya Natori³, Kazuki Horiuchi³, Go Matsumoto³, Hayato Tanaka¹, Yukiko Nagano⁴, Yoshichika Arakawa⁴, Noriyuki Nagano^{1,2} (¹Dept. Health. Med. Grad. Sci., Sch. Med., Shinshu Univ., ²Dept. Med. Grad. Sci., Sch. Med. Sci. Tech., Shinshu Univ., ³Dept. Lab., Med., Shinshu Hosp., ⁴Dept. Bacteriol., Grad. Sch. Med., Nagoya Univ.)

P1-189**Characteristics of CTX-M β -lactamase-producing *E. coli* isolated from deer inhabiting tourist sites**

○Mako Watanabe, Akiyo Nakano, Ryuichi Nakano, Kai Saito, Yuki Suzuki, Naoki Kakuta, Risako Kakuta, Saori Horiuchi, Hisakazu Yano (Dept. Microbiol. Infect. Dis., Nara Med. Univ.)

7. Antimicrobial agents and resistance -c. Others

P1-190**Interferon-induced guanylate binding protein-1 regulates xenophagy through TBK1 activation**

○Miyako Hikichi, Takashi Nozawa, Ichiro Nakagawa (Dept. Microbiol., Grad. Sch. Med., Kyoto Univ.)

P1-191**Carbohydrate-binding E3 ligase complex recognizes Group A *Streptococcus* for xenophagy**

○Akihiro Yamada, Takashi Nozawa, Ichiro Nakagawa (Dept. Microbiol., Grad. Sch. Med., Kyoto Univ.)

P1-192**Effect of gut microbes on butyrate-induced differentiation and apoptosis of human colon cancer cell**

○Ayano Tada, Haruyuki Imaohji, Tomomi Kuwahara (Dept. Microbiol., Med., Kagawa Univ.)

P1-193**Antifungal susceptibility of fungal strains isolated from Japanese Experiment Module "KIBO", ISS**

○Kazuo Satoh¹, Takashi Tamura¹, Takashi Yamazaki^{1,2}, Koichi Makimura¹ (¹G-MEC, Teikyo Univ., ²JAXA)

P1-194**Characterization of Toxicarin, a novel elastase inhibitor produced by *Aspergillus toxicarius***

Yumiko Komori, ○Mio Matsumoto, Miho Ohnishi, Toshiaki Nikai (Dept. Microbiol., Fac. Pharm., Meijo Univ.)

P1-195**Biofilm formation on the surface of dental materials using a new flow system**

○Hiroaki Katsuragi¹, Yusuke Tanaka², Leelanarathiwat Kanda³ (¹Dept. Microbiol., NDU, Niigata, ²NDU, Niigata, ³Functional Occlusal Treatment, Grad. Sch., NiDU, Niigata)

1. Taxonomy / Epidemiology / Infectious diseases
-a. Phylogenetics, taxonomy and strain typing

P2-001**Analysis of the IS insertion site variation in EHEC O121:H19 to develop the O121 IS-printing system**

○Itsuki Taniguchi¹, Keiji Nakamura¹, Ruriko Nishida¹, Sunao Iyoda², Makoto Ohnishi², Tadasuke Ooka³, Yoshitoshi Ogura¹, Tetsuya Hayashi¹ (¹Dept. Bacteriol., Sch. Med., Kyushu Univ., ²Dept. Bacteriol. I, NIID, ³Dept. Microbiol., Grad. Sch. Med & Dent. Sci., Kagoshima Univ.)

P2-002**Molecular epidemiology and phylogeny of *Staphylococcus argenteus* in Hokkaido, Japan**

○Meiji Soe Aung, Noriko Urushibara, Mitsuyo Kawaguchiya, Nobumichi Kobayashi (Dept. Hygiene, Sapporo Med. Univ.)

P2-003**Prevalence of vaccine candidate proteins and novel fusion proteins PhtA/B and PhtA/D in pneumococci**

○Mitsuyo Kawaguchiya, Noriko Urushibara, Meiji Soe Aung, Nobumichi Kobayashi (Dept. Hygiene, Sapporo Med. Univ., Sch. Med.)

P2-004**Change in Molecular Epidemiological Features of MRSA in Japan**

○Hidemasa Nakaminami, Shunsuke Takadama, Norihisa Noguchi (Dept. Microbiol., Sch. Pharm., Tokyo Univ. Pharm. Life Sci.)

P2-005**Cutibacterium acnes IB and II isolated from non-acne patients exhibit high-level biofilm formation**

○Keisuke Nakase, Ren Midorikawa, Kento Yamasaki, Norihisa Noguchi (Depart. Microb., Sch. Pharm., Tokyo Univ. Pharm. Life Sci.)

P2-006**Drug repositioning for new sepsis treatment**

○Seung Jun Lee, Yuh Morimoto, Tadashi Baba, Keiichi Hiramatsu (Dept. Infection Control Science Research, Sch. Med., Juntendo Univ.)

P2-007**Comparative genomics and phylogenetic analysis of *Bacillus anthracis* strains isolated in Japan**

○Akiko Okutani¹, Satoshi Inoue¹, Shigeru Morikawa^{1,2} (¹Dept. Vet. Sci., NIID, ²Dept. Microbiol., Okayama Univ. Sci.)

P2-008**Analysis of *bla*_{NDM-7} and *bla*_{KPC-2} producing bacteria from Philippines isolated in Hiroshima**

○Shizuo Kayama^{1,2,3}, Saburo Mori^{2,4}, Mitsuyasu Ikeda^{2,3}, Masato Suzuki¹, Kouji Yahara¹, Hiroki Ohge^{2,5}, Motoyuki Suga^{1,2,3} (¹National Institute of Infectious Diseases, ²RCNID, Hiroshima Univ., ³Dept. Antimicrobial Resistance, Hiroshima Univ., ⁴Onomichi Municipal Hospital, ⁵Dept. Infectious Diseases, Hiroshima Univ.)

1. Taxonomy / Epidemiology / Infectious diseases
-b. Epidemiology and molecular epidemiology

P2-009**[Withdrawn]****P2-010****Relationship of porin mutations to ST and carbapenemase type in carbapenem-resistant *K. pneumoniae***

○Dan Takeuchi, Yukihiro Akeda, Yo Sugawara, Noriko Sakamoto, Shigeyuki Hamada (Japan-Thailand Research Collaboration Center, RIMD, Osaka Univ.)

P2-011**Analysis of ESBL producing *Enterobacter cloacae* complex in Nagoya University Hospital**

○Kazumitsu Kawamura¹, Nobuyuki Tetsuka², Yukari Osada¹, Nami Shimaoka¹, Teruko Ohkura¹, Mayumi Ito¹, Rie Ikai¹, Kengo Hayashi¹, Tetsuya Yagi² (¹Dept. Medical Technique, Clinical Laboratory., Nagoya Univ. Hospital, ²Dept. Infectious Diseases., Nagoya Univ. Hospital)

P2-012**Isolation of *Serratia fonticola* producing FONA from imprinted chicken meats**

○Koichi Tanimoto¹, Takahiro Nomura², Yusuke Hashimoto², Hidetada Hirakawa², Haruyoshi Tomita^{1,2} (¹Lab. Bacterial Drug Resistance, Gunma Univ. Grad. Sch. Med., ²Dept. Bacteriol., Gunma Univ. Grad. Sch. Med.)

P2-013**Characterization of CRE isolates in Toyama prefecture**

○Kaoru Uchida, Masanori Watahiki, Jun-ichi Kanatani, Tomoko Kato, Keiko Kimata, Junko Isobe, Kazunori Oishi (Dept. Bacteriol., Toyama Institute of Health)

P2-014**Comparison of discriminatory power of EHEC-POT and MLVA**

○Kazuhiro Yamada¹, Masahiro Suzuki², Masakado Matsumoto¹ (¹Dept. Microbiol. Med. Zool., Aichi Pref. Inst. Pub. Health, ²Dept. Microbiol. Fujita Health Univ.)

P2-015**Variety of MRSA clones provided by the carriage survey by young healthy persons**

○Miyo Murai¹, Kozue Kishii¹, Junko Maekawa² (¹Div. Lab. Sci., Dept. Health Sci., Saitama Pref. Univ., ²Dept. Bacteriol. I, Nat. Inst. Infect. Dis.)

P2-016**Molecular epidemiology of multidrug-resistant *Acinetobacter baumannii* clinical isolates in Myanmar**

○Tatsuya Tada¹, Tomomi Hishinuma², Mari Tohya¹, Mya San³, Tin Htay Htay³, Teruo Kirikae¹ (¹Dept. Microbiol., Grad. Sch. Med., Juntendo Univ., ²Dept. Microbiol., Sch. Med., Juntendo Univ., ³National Health Laboratory)

P2-017**Molecular epidemiology of VIM producing *Pseudomonas aeruginosa* clinical isolates in Japan**

○Tomomi Hishinuma¹, Tatsuya Tada¹, Masahiro Shimojima², Teruo Kirikae¹ (¹Dept. Microbiology, Juntendo Univ., ²BML, Inc)

P2-018**Carbapenem-resistant *Enterobacter cloacae* complex isolated at medical settings in Myanmar.**

○Satoshi Oshiro¹, Tatsuya Tada¹, Hiroki Uchida¹, Tomomi Hishinuma¹, Mya San², Tin Htay Htay², Teruo Kirikae¹ (¹Dept. Microbiol. Juntendo Univ., ²National Health Lab, MMR)

P2-019**Molecular prevalence of Fim3-highly producible sequence in *Bordetella pertussis***

○Nao Otsuka¹, Rei Fumimoto^{1,2}, Kazunari Kamachi¹, Keigo Shibayama¹ (¹Dept. Bacteriol. II, Nat. Inst. Infect. Dis., ²Dept. Pediatrics, St Marianna Med. Univ.)

P2-020**Epidemiological characteristics of bloodstream *S. epidermidis* isolates from two hospitals in Tokyo**

○Alafate Ayibieke¹, Kageto Yamada², Yoshibumi Aiso³, Yoshiro Hadano³, Yoko Nukui³, Ryuji Koike³, Shuji Tohda⁴, Ryoichi Saito¹ (¹Dept. Mol. Microbiol., Grad. Sch. Med. & Dent. Sci., Tokyo Med. Dent. Univ., ²Dept. Clin. Lab., Toshima Hospital, ³Dept. Infect. Contrl., Med. Hosp., Tokyo Med. Dent. Univ., ⁴Dept. Clin. Lab., Med. Hosp., Tokyo Med. Dent. Univ.)

P2-021**Carbapenem-resistant *Enterobacteriaceae* spread to communities in Yangon, Myanmar**

○Yo Sugawara¹, Hideharu Hagiya², Yukihiro Akeda^{1,2}, Noriko Sakamoto¹, Dan Takeuchi¹, Kazunori Tomono², Shigeyuki Hamada¹ (¹RCC-ERI, RIMD, Osaka Univ., ²Dept. Infect. Cont. Prevent., Med. Hosp., Osaka Univ.)

P2-022**Changes of molecular characterization of community-associated MRSA in Japan over the past decade**

○Tetsuo Yamaguchi¹, Takahiro Sato¹, Daisuke Ono¹, Ayami Sato¹, Yuri Miura², Shinobu Koyama³, Kiyoko Tamai³, Tetsuya Matsumoto⁴, Yoshikazu Ishii¹, Kazuhiro Tateda¹ (¹Dept. Microbiol. Infect. Dis., Sch. Med, Toho Univ., ²Dept. Microbiol. Lab., Tokyo Med. Univ. Hosp., ³Miroku Med. Lab. Co., Ltd., ⁴Dept. Infect. Dis., Int. Univ. Health and Welfare)

1. Taxonomy / Epidemiology / Infectious diseases
-c. Isolation and characterization of clinical isolates

P2-023**Whole genome sequence of *Pantoea ananatis* isolated from human bacteremia**

○Michinobu Yoshimura, Heng Ning Wu, Kazutoshi Ito, Itaru Yanagihara (Dept. Dev. Med., Res. Inst., Osaka Women's and Children's Hospital)

P2-024**Pathogenic potential of *Francisella hispaniensis* KUMA-UJP1 strain isolated in Japan**

○Akitoyo Hotta (Dept. Veterinary Science, National Institute of Infectious Diseases)

P2-025**Characterization of bacteriocin-KO mutants in *S. mutans***

Atsuko Watanabe^{1,2}, ○Miki Kawada-Matsuo², Hitoshi Komatsuzawa³ (¹Dept. Orthodont., Kagoshima Univ. Grad. Sch. Med. Dent., ²Dept. Oral Microbiol., Kagoshima Univ. Grad. Sch. Med. Dent. Sci., ³Dept Bacteriol., Hiroshima Univ. Inst. Biomed Health Sci.)

P2-026**Carbapenem-highly-resistant *Pseudomonas alcaligenes* that obtained from stool sample**

○Emi Ono, Kyoko Kuwahara, Tomomi Hishinuma, Satoshi Oshiro, Tatsuya Tada, Mari Tohya, Teruo Kirikae (Dept. Microbiol. Juntendo Univ. Sch. Med.)

P2-027**Development of triple multiplex PCR, and characterization of *E.coli* isolates from blood and feces**

○Mari Hoshino¹, Yuki Miyaki², Shigeeko Yashima³ (¹Sch. Health Sci., Gifu Univ. Med. Sci., ²Dept. Clin. Lab., Komaki City Hosp., ³Clin. Lab., Gifu Pref. Tajimi Hosp.)

P2-028**Draft genome sequences of two strains of *Streptococcus pneumoniae* from AIPF patients**

○Takane Kikuchi-Ueda¹, Ryuichi Fujisaki², Tsuneyuki Ubagai¹, Satoshi Nishida¹, Shigeru Tansho-Nagakawa¹, Yoshinori Sato¹, Yasuo Ono¹ (¹Dept. Microbiol. Immunol., Sch. Med., Teikyo Univ., ²Emergency Med. Tech. Course, Dept. Sport Med. Sci., Faculty Med. Technol., Teikyo Univ.)

P2-029**Isolation of *Leptospira* from Nutria in Osaka, Japan**

○Ryo Murata¹, Hiroki Morimoto¹, Ikuo Uchida¹, Mitsuhiko Asakawa¹, Harumi Torii², Ayako Takano² (¹Dept. Pathobiol., Sch. Vet. Med., Rakuno Gakuen Univ., ²Cent. for Nat. Environ. Educ., Nara Univ. of Educ.)

1. Taxonomy / Epidemiology / Infectious diseases
-d. Methods for detection, identification, and diagnosis

P2-030**Detection of bacterial genome mutation using CRISPR-Cas13a-loaded chimeric phage**

○Yoshifumi Aiba, Kanate Thitianapakorn, Kotaro Kiga, Shinya Watanabe, Yusuke Sato'o, XinEe Tan, Tanit Boonsiri, Feng-Yu Li, Longzhu Cui (Div. Bacteriol., Jichi Med Univ.)

P2-031**Determination of antigens for diagnosis of genus *Helicobacter* infection in cancer patients.**

○Takako Osaki¹, Hideo Yonezawa¹, Fuhito Hojo², Satoshi Kurata¹, Tomoko Hanawa¹, Shigeru Kamiya^{1,3} (¹Dept. Infect. Dis., Kyorin Univ. Sch. Med., ²Inst. Lab. Anim., Grad. Sch. Med., Kyorin Univ., ³Facult. Health. Sci., Kyorin Univ.)

P2-032**On-site monitoring of *Legionella pneumophila* in cooling tower using a portable microfluidic system**

○Nobuyasu Yamaguchi¹, Yusuke Tokunaga¹, Satoko Goto², Yudai Fujii², Fumiya Banno², Akiko Edagawa¹ (¹Osaka Inst. Pub. Health, ²Grad. Sch. Pharm. Sci., Osaka Univ.)

P2-033**Proposal of a periodic medical examination for the diagnosis of *Helicobacter suis* infection**

○Hidenori Matsui¹, Emiko Rimbara², Masato Suzuki², Keigo Shibayama² (¹Kitasato Inst Life Sci, Kitasato Univ., ²National Inst. Infect. Dis.)

P2-034**Validity as diagnostic marker of MVOCs emitted from *Trichophyton* species**

○Shin-Ichi Iwaguchi (Dept. Biol. Sci., Fac. Sci., Nara Women's Univ.)

P2-035**Digital microscopic technology inaugurates a new era in the field of medical mycology**

○Koichi Makimura (Med. Mycol., Grad. Sch. Med, Teikyo Univ.)

P2-036**Biomarker research by urine proteomics in pulmonary MAC disease**

○Akira Yokoyama¹, Yoshitoshi Hirao², Yuriko Ozeki¹, Akihito Nishiyama¹, Yoshitaka Tateishi¹, Tadashi Yamamoto², Sohkiichi Matsumoto¹ (¹Dept. Bacteriol., Med., Niigata Univ., ²Biofluid Biomarker Cent., Niigata Univ.)

1. Taxonomy / Epidemiology / Infectious diseases**-c. Others****P2-037****Identification of CRISPR sequences from *Mycoplasma salivarium* strains**

○Yu Shimoyama¹, Taichi Ishikawa¹, Yoshitoyo Kodama¹, Shigenobu Kimura², Minoru Sasaki¹ (¹Div. Mol. Microbiol., Iwate Med. Univ., ²Dept. Dent. Hygiene, Kansai Women's College)

P2-038**Virulence Profile of Diarrheagenic *E. coli* from the Western region of Ghana**

○Isaac Prah¹, Alafate Ayibieke¹, Atsushi Iguchi², Samiratu Mahazu¹, Wakana Sato¹, Toshihiko Suzuki¹, Shoji Yamaoka¹, Shiroh Iwanaga¹, Anthony Ablordey³, Ryoichi Saito¹ (¹Grad. Sch. Med & Dent. Sci., Tokyo Med. Dent. Univ., ²Faculty of Agr., Univ. of Miyazaki, ³Dept. Bacteriology, Noguchi Memorial Institute for Medical Research, Univ. of Ghana)

3. Physiology / Structural biology -a. Metabolism, biosynthesis and metabolome**P2-039 (WS07-2)****Metabolism Changing of *Vibrio vulnificus* Infected Tissue in Wound Infection Model Mouse**

○Kai Ishida¹, Takaaki Shimohata¹, Yuna Kanda¹, Rumiko Masuda¹, Takashi Uebanso¹, Kazuaki Mawatari¹, Takashige Kashimoto², Akira Takahashi¹ (¹Dept. Preventive Environmental Nutrition, Ins. Biomed Sci., Tokushima Univ. Grad. Sch., ²Lab. Vet. Public Health, Sch. Vet. Med., Kitasato Univ.)

P2-040**Mechanism of protein translation-coupled cysteine persulfide biosynthesis in bacteria**

○Tetsuro Matsunaga¹, Tomoaki Ida¹, Akira Nishimura¹, Minkyung Jung¹, Masanobu Morita¹, Tomohiro Sawa², Hideshi Ihara³, Hozumi Motohashi^{1,2}, Takaaki Akaike¹ (¹Dept. Environ. Med. Mol. Toxicol., Tohoku Univ. Grad. Sch. Med., ²Dept. Microbiol., Kumamoto Univ. Grad. Sch. Med. Sci., ³Dept. Biol. Sci., Grad. Sch. Sci., Osaka Pref. Univ., ⁴Dept. Gene Exp. Regulation, IDAC, Tohoku Univ.)

P2-041**Crystal structure of a diadenosine tetraphosphate phosphorylase from *Mycobacterium avium***

○Shigetaru Mori¹, Naoko Honda², Hyun Kim¹, Emiko Rimbara¹, Keigo Shibayama¹ (¹Dept. Bacteriology II, NIID, ²Dept. Qual. Assur. Radiol. Prot., NIID)

P2-042**Expression of Glycolysis in *Veillonella* spp. by substrates control**

○Izumi Mashima^{1,2}, Yu-Chieh Liao³, Futoshi Nakazawa⁴, Yoshiaki Kawamura², Riyoko Tamai¹, Yusuke Kiyoura¹, Elaine Haase⁵, Frank Scannapieco⁵ (¹Dept. Oral. Med. Sci., Sch. Dent., Ohu Univ., ²Dept. Microbiol., Sch. Phar. Aichi Gakuin Univ., ³Div. Biostat. Bioinfo., Inst. Population Heal. Sci., Nat. Heal. Res. Inst., ⁴Dept. Oral Biol., Fac. Dent., Univ. Indonesia, ⁵Dept. Oral Biol., Sch. Dent. Med., Univ. Buffalo, SUNY)

3. Physiology / Structural biology -b. Motility

P2-043 (WS07-8)

Reconstitution of *Spiroplasma* swimming and search for its origin in synthetic bacterium, syn3.0

○Hana Kiyama¹, Shigeyuki Kakizawa², Makoto Miyata^{1,3}
(¹Grad. Sch. Sci., Osaka City Univ., ²Bioprocess, AIST,
³OCARINA, Osaka City Univ.)

P2-044 (WS07-7)

Collective motion of gliding *Flavobacteria* exhibits unforeseen vortices with dynamic rotation

○Daisuke Nakane, Takayuki Nishizaka (Dept. Phys., Gakushuin Univ.)

P2-045

Functional characterization of FlaK, a master regulator for the polar flagellar genes in *Vibrio*

○Tomoya Kobayakawa¹, Seiji Kojima², Michio Homma² (¹Dept. Biol. Sci., Sch. Sci., Nagoya Univ., ²Div. Biol. Sci., Grad. Sch. Sci., Nagoya Univ.)

P2-046

Detection of stator-rotor interaction essential for flagellar rotation by site-directed crosslink.

○Hiroyuki Terashima, Seiji Kojima, Michio Homma (Div. Biol. Sci., Grad. Sch. Sci., Nagoya Univ.)

P2-047

Effects of MFXF motif in FlhG on the rotational direction of the flagellar motor in marine *Vibrio*

○Akihiro Hatano¹, Tatsuro Nishikino², Michio Homma² (¹Div. Biol. Sci., Sch. Sci., Nagoya Univ., ²Div. Biol. Sci., Grad. Sch. Sci., Nagoya Univ.)

3. Physiology / Structural biology -c. Signal transduction (intracellular and intercellular)

P2-048

RcsG, a connector of PTS to TCS in *Salmonella enterica*

○Akinori Kato, Tomoka Fukami, Kei Hagihara (Dept. Adv. Biosci., Grad. Sch. Agr., Kindai Univ.)

P2-049 (WS07-4)

Live-cell imaging of physical properties in bacterial cell surface by phase mode of high-speed AFM

○Yousuke Kikuchi¹, Yuuki Ichinaka¹, Masanori Toyofuku^{2,3}, Nozomu Obana^{3,4}, Nobuhiko Nomura^{2,3}, Azuma Taoka^{1,5} (¹Inst. Sci. Eng., Kanazawa Univ., ²Fac. Life Env. Sci., Univ. Tsukuba, ³Micro. Res. Cen. Sust., Univ. Tsukuba, ⁴Tran. Me. Res. Cen., Fac. Med., Univ. Tsukuba, ⁵WPI Nano Life Sci. Inst., Kanazawa Univ.)

P2-050 (WS07-1)

Macrophage-derived exosomes up-regulate the pro-inflammatory factors *E. coli* vesicle-dependently

○Risa Imamiya¹, Mayuko Osada-Oka¹, Yukiko Minamiyama¹, Yasuhiko Horiguchi² (¹Food Hyg. Env. Health., Grad. Sch. Life Env. Sci., Kyoto Pref. Univ., ²Dept. Mol. Bact., RIMD, Osaka Univ.)

P2-051

Inhibition of small G protein Rac GEF suppresses hyphal growth in *Trichophyton rubrum*

○Masaki Ishii¹, Shinya Ohata¹, Tsuyoshi Yamada², Hideko Uga¹, Toshiaki Katada¹ (¹Mol. Cell. Biol., Fac. Pharm., Musashino Univ., ²TIMM)

3. Physiology / Structural biology -d. Cell surface structure, membrane structures and cytoskeleton

P2-052

Structural modification of *Escherichia coli* lipid A using palmitoyltransferase genes

○Kazuyoshi Kawahara, Takehiro Sugawara, Sakura Onoue (Dept. Biosciences, Coll. Sci. Engin. Kanto Gakuin Univ.)

P2-053

Analysis of biosynthesis gene cluster from clinical *Mycobacterium intracellulare* strain

○Nagatoshi Fujiwara¹, Yuji Miyamoto², Minoru Ayata³, Takashi Naka¹, Hirotaka Kuwata⁴, Shinji Maeda⁵ (¹Dept. Food and Nutrition, Tezukayama Univ., ²Leprosy Res. Cent., National Institute of Infectious Diseases, ³Dept. Virology, Osaka City Univ. Grad. Sch. Med., ⁴Dept. Oral Microbiol. and Immunol., Sch. Dent., Showa Univ., ⁵Fac. Pharm. Hokkaido Univ. Science)

P2-054

Regulation of the flagellar MS ring formation in *Vibrio* species

○Hiroyuki Kajino¹, Keiichi Hirano², Hiroyuki Terashima², Michio Homma² (¹Div. Biol. Sci., Sch. Sci., Nagoya Univ., ²Div. Biol. Sci., Grad. Sch. Sci., Nagoya Univ.)

P2-055

Characterization of *E. coli* membrane vesicles induced by glycine

○Satoru Hirayama, Ryoma Nakao (Dept. Bac. I, Natl. Inst. Infect. Dis.)

P2-056

Analyzing cell division protein of cell wall-less bacteria

○Taishi Kasai, Daisuke Shiomi (Dept. Life Sci., Coll. Sci., Rikkyo Univ.)

P2-057 **β -lactam binding and permeation mechanism in *Neisseria meningitidis* outer membrane porin PorB**

○Mikio Tanabe¹, Christof Kattner² (¹Struct. Biol. Res. Centre. IMSS, KEK, ²HALOmem, Inst. Biochem. Biotech., Martin-Luther-Univ. Halle-Wittenberg)

3. Physiology / Structural biology -f. Others

P2-058**Bacterial supernatant inhibits or disperse biofilm of oral bacteria**

○Ryota Yamasaki, Aki Kawano, Yoshie Yoshioka, Wataru Ariyoshi (Dept. Health Promo., Infect. Molecul. Bio., Kyushu Dental Univ.)

P2-059**Bacterial stress factors related to biofilm formation in *Staphylococcus aureus***

○Yuko Ohno, Yuta Honjo, Kana Yoshizumi, Mako Kawai (Fac. Phar. Sci., Himeji Dokkyo Univ.)

P2-060**Analysis of pH regulation in magnetotactic bacteria using pH-sensitive fluorescent protein**

○Yukako Eguchi¹, Azuma Taoka^{1,2}, Yoshihiro Fukumori^{2,3} (¹Fac. Biol. Sci. & Tech., Inst. Sci. & Eng., Kanazawa Univ., ²NanoLSI, Inst. Front. Sci. Init., Kanazawa Univ., ³Vice President, Kanazawa Univ.)

P2-061**Comparison of cryo-TEM cell morphology data between species in 5 genera in family *Mycobacteriaceae*.**

○Hiroyuki Yamada¹, Kinuyo Chikamatsu¹, Akio Aono¹, Kazuyoshi Murata², Naoyuki Miyazaki², Yoko Kayama^{2,3}, Nagatoshi Fujiwara⁴, Shinji Maeda⁵, Satoshi Mitarai¹ (¹Dept. Mycobacterium Ref. Res. RIT, JATA., ²Nat. Inst. Physiol., ³Terabase. Inc., ⁴Tezukayama Univ., ⁵Hokkaido Univ. Sci.)

2. Ecology -a. Ecology, symbiosis and environmental microbes

P2-062 (WS07-5)**Spatio-temporal analysis of complex biofilm formed by skin microorganisms**

○Kaori Tsuruyu¹, Nobuhiko Nomura^{2,3}, Andrew S. Utada^{2,3}, Nozomu Obana^{3,4} (¹Grad. Sch. Life Environ. Sci., Univ. Tsukuba, ²Fac. Life Environ. Sci., Univ. Tsukuba, ³MiCS, Univ. Tsukuba, ⁴TMRC, Fac. Med., Univ. Tsukuba)

P2-063**Amoeba carrying human pathogenic bacteria in a symbiotic bacteria-dependent manner**

○Nana Tanaka¹, Saki Maehana¹, Torahiko Okubo¹, Junji Matsuo², Shinji Nakamura³, Jeewan Thapa¹, Hiroyuki Yamaguchi¹ (¹Fac. Health Sci., Hokkaido Univ., ²Hokkaido Med. Univ., ³Div. Biomed. Imag. Res., Juntendo Univ. Grad. Sch. Med.)

P2-064**Survival of *Helicobacter pylori* and other pathogenic bacteria in environmental soil**

○Fuhito Hojo¹, Takako Osaki², Hideo Yonezawa², Tomoko Hanawa², Satoshi Kurata², Shigeru Kamiya³ (¹Inst. Lab. Anim., Grad. Sch. Med., Kyorin Univ., ²Dept. Infect. Dis., Kyorin Univ., Sch. Med., ³Fac. Health Sci.)

P2-065**The correlation between nontuberculous mycobacteria and free living amoeba in the river water**

○Yukiko Nishiuchi¹, Tomotada Iwamoto², Kentaro Arikawa², Shiomi Yoshida³, Fumito Maruyama⁴ (¹Inst. Toneyama Tuberculosis Res., Sch. Med., Osaka City Univ., ²Dept. Infectious Dis., Kobe Inst. Health., ³Clin. Res. Cent., NHO Kinki-chuo Chest Med. Cent., ⁴Microb. Genom. Ecol. Hiroshima Univ.)

P2-066**Exploitation of obligate intracellular bacteria diversity in *Leptotrombidium* mites**

○Motohiko Ogawa¹, Mamoru Takahashi², Minenosuke Matsutani³, Shinichi Noda⁴, Nobuhiro Takada⁵, Masayuki Saijo¹ (¹Dept. Virology1, NIID, ²Dept. Anesthesiol., Saitama Med. Univ., ³NODAI Genome Res. Center, Tokyo Agri. Univ., ⁴Fac. Med. Sci., Fukui Univ., ⁵Pacific Islands Res. Center, Kagoshima Univ.)

2. Ecology -b. Microbiota

P2-067 (WS07-6)**The lantibiotics produced by the oral habitant trigger dysbiosis of intestinal microbiota**

○Hideo Yonezawa¹, Mizuho Motegi², Fuhito Hojo⁴, Yasutoshi Kuroki³, Kentaro Oka³, Motomichi Takahashi³, Takako Osaki¹, Shigeru Kamiya¹ (¹Dept. Infect. Dis., Kyorin Univ. Sch. Med., ²Dept. Pediatric Dent, Tokyo Med. and Dent. Univ., ³Miyarisan Pharm. Co. Ltd, ⁴Inst. Lab. Anim., Grad. Sch. Med., Kyorin Univ.)

P2-068**Omics analysis in fecal transplantation therapy for *Clostridioides difficile* infection**

○Yoshihiko Sakaguchi¹, Kazuyoshi Gotoh², Mitsutoshi Senoh³, Akira Take¹, Jumpei Uchiyama⁴, Hayato Osaki⁵, Yasutaka Jodai⁵, Shunji Hayashi¹, Naoki Ohmiya⁵, Haru Kato³ (¹Dept. Microbiol. Kitasato Univ. Sch. Med., ²Dept. Bacteriol., Okayama Univ. Grad. Sch. Med. Dent. Pharm. Sci., ³Dept. Bacteriol. II, Natl. Inst. Infect. Dis., ⁴Lab. Vet. Microbiol. I, Sch. Vet. Med., Azabu Univ., ⁵Dept. Gastro., Fujita Heal. Univ.)

P2-069**Alteration of infant gut microbiota metabolic function after exposure to antibiotics**

○Haruyuki Imaohji¹, Aya Tanaka², Ryu-ichi Shimono², Atsushi Toyoda³, Hideto Takami⁴, Tomomi Kuwahara¹ (¹Dept. Microbiol., Sch. Med., Kagawa Univ., ²Dept. Pediatr. Surg., Sch. Med., Kagawa Univ., ³Center Inform. Biol., Natl. Inst. Genetics, ⁴Yokohama Inst., JAMSTEC)

P2-070**Effect of periodontal therapy combined with lactic acid bacteria on oral and intestinal flora**

○Nao Taniguchi¹, Yoshio Nakano², Yoshiaki Ota³, Takashi Hanioka¹ (¹Dept. Prev. & Public Health Dent., Fukuoka Dent. Col., ²Dept. Chem., Nihon Univ. Sch. Dent., ³Ota Dent. Clin.)

P2-071**An analysis of associations between gut microbiota and lifestyle characteristics in healthy Japanese**

○Taihei Banno, Yoshimi Benno, Mutsumi Nakamura, Yoshiko Fukuda (Benno Lab, RIKEN)

P2-072**Analysis of gut microbiome in dairy cows infected with bovine leukemia virus**

○Jumpei Uchiyama¹, Hironobu Murakami¹, Reiichiro Sato¹, Keijiro Mizukami¹, Suzuki Takehito¹, Ayaka Shima², Genki Ishihara², Yoshihiko Sakaguchi^{1,3}, Kazuyuki Sogawa¹, Masahiro Sakaguchi¹ (¹Azabu Univ., ²Anicom Specialty Medical Institute Inc., ³Kitasato Univ.)

P2-073**Investigation of the contamination with *Streptococcus suis* in the pork food chain in Japan**

○Kasumi Kuroki¹, Yoshihiro Nitta¹, Ryosuke Kadoya², Tsutomu Sekizaki¹ (¹Res. Center for Food Safety, Grad. Sch. Agr. Life Sci., Univ. of Tokyo, ²Dept. Human Nutr., Sch. Life Stud., Sugiyama Jogakuen Univ.)

P2-074**Comparative analysis of skin microbiome in patients with facial inflammatory skin diseases**

○Toshifumi Osaka¹, Naoko Yanagisawa¹, Ayane Mizuno², Akiko Mochizuki², Yasuko Fukuya², Naoko Ishiguro² (¹Dept. Microbiol. Immunol., Tokyo Women's Med. Univ., ²Dept. Dermatol., Tokyo Women's Med. Univ.)

2. Ecology -c. Growth and culture conditions**P2-075****Modification of Bordet-Gengou agar medium for cultivation of bordetellae**

○Yukihiro Hiramatsu¹, Mayuko Osada-Oka², Yasuhiko Horiguchi¹ (¹Dept. Mol. Bact., RIMD, Osaka Univ., ²Food Hyg. Env. Health, Grad. Sch. Life Env. Sci., Kyoto Pref. Univ.)

P2-076**Effects of pyruvate and its analogues on the VBNC *Mycobacterium tuberculosis* complex**

○Yuta Morishige¹, Yoshiko Shimomura¹, Yuriko Igarashi¹, Kinuyo Chikamatsu¹, Akio Aono¹, Hiroyuki Yamada¹, Akiko Takaki¹, Yoshiro Murase¹, Satoshi Mitarai^{1,2} (¹Dept. Mycobac. Ref. Res., RIT, JATA, ²Dept. Basic Mycobacteriol., Grad. Sch. Biomed. Sci., Nagasaki Univ.)

P2-077**Elongation and septal formation of *Mycobacterium leprae***

○Yasuo Fukutomi, Kentaro Yamamoto, Manabu Ato (Leprosy Research Center, NIID)

4. Genetics / Genomics / Biotechnology -a. Genomics, bioinformatics and systems biology**P2-078 (WS05-5)****Bird's-eye mapping of antimicrobial resistance plasmids in an Excel file by Python**

○Yusuke Tsuda, Yoshichika Arakawa (Dept. Bacteriol., Grad. Sch. Med., Nagoya Univ.)

P2-079 (WS05-1)**Global Genome Epidemiology Database (gGENEPID)**

Tsuyoshi Sekizuka, Koji Yatsu, Kentaro Itokawa, ○Makoto Kuroda (Pathogen Genomics Center, Nat. Inst. Infect. Dis.)

P2-080**Applying strain-resolved metagenomic analysis using PacBio Sequel**

○Takeru Nakabayashi¹, Yuma Oka², Satoshi Yuhara², Morie Nishiwaki¹ (¹Business Dept., Miraca Research Institute G. K., ²Research Dept., Miraca Research Institute G. K.)

P2-081**Development of primer design system using genome and metagenome data**

○Satoshi Yuhara¹, Yuma Oka¹, Takeru Nakabayashi², Morie Nishiwaki² (¹Research Dept., Miraca Research Institute G. K., ²Business Dept., Miraca Research Institute G. K.)

P2-082**Higher Genome Mutation Rates of a Beijing lineage of *M. tuberculosis* during LTBI**

○Mariko Hakamata^{1,2}, Hayato Takihara³, Tomotada Iwamoto⁴, Aki Tamaru⁵, Yuriko Ozeki¹, Akihito Nishiyama¹, Yoshitaka Tateishi¹, Toshiaki Kikuchi², Shujiro Okuda³, Sohkiichi Matsumoto¹ (¹Dept. Bacteriol., Sch. Med., Niigata Univ., ²Dept. Respiratory medicine and infectious disease., Sch. Med., Niigata Univ., ³Dept. Bioinformatics., Sch. Med., Niigata Univ., ⁴Osaka Institute of Public Health, ⁵Kobeshi Kankyohoken Research Institute)

P2-083**Complete genome sequences of 5 mouse opportunistic bacterial species by targeting their type strains**

○Fumio Ike¹, Ayako Kajita¹, Hiraku Sasaki², Hitoki Yamanaka³, Atsushi Toyoda⁴ (¹Exp. Anim. Div., RIKEN BRC, ²Juntendo Univ., ³Res. Ctr. Sprrt. Adv. Sci., Shinshu Univ., ⁴Nat. Inst. Genetics)

4. Genetics / Genomics / Biotechnology -b. Horizontal gene transfer, mobile genetic element and evolution

P2-084 (WS05-2)**The mechanism responsible for the change in lactose hydrolysis during EHEC O121:19 cultivation**

○Keiji Nakamura, Itsuki Taniguchi, Ruriko Nishida, Yasuhiro Gotoh, Yoshitoshi Ogura, Tetsuya Hayashi (Dept. Bacteriol., Fac. Med. Sci., Kyushu Univ.)

P2-085**Genomic and phenotypic analyses of a *Vibrio cholerae* strain with single chromosome**

○Shouji Yamamoto (Dept. Bac. I., Natl. Inst. Infect. Dis.)

P2-086**Global transfer of epidemic-related Shiga toxin 2a phage among enteroaggregative *Escherichia coli***

Keiko Kimata¹, ○Kenichi Lee², Masanori Watahiki¹, Junko Isobe¹, Makoto Ohnishi², Sunao Iyoda² (¹Dept. Bacteriol., Toyama Inst. Health, ²Dept. Bacteriol. 1, Natl. Inst. Infect. Dis.)

P2-087**Genomic and phylogenetic analysis of the *Helicobacter cinaedi/canicola* complex**

○Yasuhiro Gotoh¹, Takako Taniguchi², Keiji Nakamura¹, Yoshitoshi Ogura¹, Naoaki Misawa², Tetsuya Hayashi¹ (¹Dept. Bacteriol., Fact. Med. Sci., Kyushu Univ., ²Dept. Vet Med Sci., Fact. Agric., Miyazaki Univ.)

4. Genetics / Genomics / Biotechnology -c. Gene regulation and transcriptome analysis

P2-088 (WS05-3)**Analysis of sporulation control mechanism by a novel protein complex conserved in *Clostridium***

○Naoki Muto¹, Nozomu Obana^{2,3}, Nobuhiko Nomura^{3,4} (¹Grad. Sch. Life Environ. Sci., Univ. Tsukuba, ²TMRC, Fac. Medicine. Sci., Univ. Tsukuba, ³MRCS, Univ. Tsukuba, ⁴Fac. Life Environ. Sci., Univ. Tsukuba)

P2-089**Post-transcriptional regulation by RodZ protein essential for rod shape of bacilli**

○Jiro Mitobe, Makoto Ohnishi (Dept. Bacteriology I, NIID)

P2-090**Regulation of sRNA1 expression by ArcA in *Vibrio alginolyticus***

○Takehiko Mima¹, Eka Darwinata Agus², Kazuyoshi Gotoh¹, Yumiko Yamamoto¹, Osamu Matsushita¹ (¹Dept. Bacteriol., Okayama Univ. Grad. Sch. Med. Dent. Pham. Sci., ²Dept. Clin. Microbiol., Fac. Med., Udayana Univ., Indonesia)

P2-091**RNA processing regulating Type IV pili gene in *Clostridium perfringens***

○Nozomu Obana¹, Nobuhiko Nomura² (¹TMRC, Fac. Med., Univ. Tsukuba, ²Fac. Life Environ. Sci., Univ. Tsukuba)

P2-092**Binding position analysis of *Bacillus anthracis* transcription factor AtxA by Cappable-seq**

○Yoshikazu Furuta¹, Cheng Cheng², Hideaki Higashi¹ (¹Res. Center. Zoonosis. Control., Hokkaido Univ., ²Sch. Biomol. Biomed. Sci., Univ. College Dublin)

4. Genetics / Genomics / Biotechnology -d. Genetic manipulation and analysis, biotechnology and synthetic biology

P2-093 (WS05-4)**History-dependent maintenance of resistant phenotype against resistant gene deletion**

○Yuta Koganezawa¹, Miki Umetani^{1,2}, Moritoshi Sato^{1,2,3}, Yuichi Wakamoto^{1,2,3} (¹Dept. Multidisciplinary Sci., Grad Sch. Arts and Sci., Univ. Tokyo, ²Res. Cent. Complex Syst. Biol., Univ. Tokyo, ³Universal Biol. Inst., Univ. Tokyo)

4. Genetics / Genomics / Biotechnology -e. Others

P2-094

Prevalence of *emm1* *Streptococcus pyogenes* having a novel type of genomic composition

○Ichiro Tatsuno¹, Masanori Isaka¹, Masakado Matsumoto², Tadao Hasegawa¹ (¹Dept. Bact., Sch. Med. Sci., Nagoya City Univ., ²Dept. Micro. Med. Zool., Aichi Prefect. Inst. Pub. Heal.)

P2-095

The role of intrinsically disordered region of mycobacterial histone-like protein in DNA compaction

○Akihito Nishiyama¹, Tomoyuki Narita², Noriyuki Kodera², Yoko Kobayashi¹, Hiroaki Muto¹, Junya Watanabe¹, Naoya Ohara³, Yuriko Ozeki¹, Yoshitaka Tateishi¹, Sohkichi Matsumoto¹ (¹Dept. Bacteriol., Sch. Med., Niigata Univ., ²NanoLSI, Kanazawa Univ., ³Dept. Oral Microbiol., Okayama Univ. Grad. Sch. Med. Dent. Pharm. Sci.)

5. Pathogenicity -a. Adhesins and colonization factors

P2-096 (WS06-8)

Attachment of ETEC to intestinal cells via lipid-recognition by secreted protein

○Yuka Imoto¹, Hiroya Oki², Kazuki Kawahara³, Tomoya Imai⁴, Shigeaki Matsuda², Toshio Kodama², Tetsuya Iida², Takuya Yoshida³, Tadayasu Ohkubo³, Shota Nakamura² (¹Sch. Pharm. Sci., Osaka Univ., ²RIMD, Osaka Univ., ³Grad. Sch. Pharm. Sci., Osaka Univ., ⁴RISH, Kyoto Univ.)

P2-097 (WS06-4)

Role of GP96 on exacerbation of bacterial pneumonia following influenza infection

○Tomoko Sumitomo¹, Masanobu Nakata¹, Satoshi Nagase², Yuki Takahara¹, Masaya Yamaguchi¹, Shigefumi Okamoto², Shigetada Kawabata¹ (¹Dept. Oral and Mol. Microbiol., Osaka Univ. Grad. Sch. Dent., ²Dept. Clin. Lab. Sci., Kanazawa Univ. Grad. Sch. Med., Pharm., and Health Sci.)

P2-098

Detection of fibronectin-binding proteins in membrane vesicle produced by *Clostridium perfringens*

○Nozomu Matsunaga¹, Eiji Tamai², Seiichi Katayama¹, Yasuo Hitsumoto¹ (¹Dept. Life Sci., Fac. Sci. Okayama Univ. Sci., ²Dept., Infect., Dis. Col. Pharma. Sci., Matsuyama Univ.)

P2-099

The binding of GAPDH and autolysin from *Clostridium perfringens* to peptidoglycan

○Riyo Aono¹, Nozomu Matsunaga², Eiji Tamai³, Seiichi Katayama², Yasuo Hitsumoto² (¹Dept. Life Sci., Grad. Sch. Sci., Okayama Univ. of Sci., ²Dept. Life Sci., Fac. Sci., Okayama Univ. Sci., ³Dept. Infect., Dis. Col. Pharma. Sci., Matsuyama Univ.)

P2-100

The analysis of components in biofilm formed by *Aeromonas* strains

○Soshi Seike¹, Hidetomo Kobayashi¹, Eizo Takahashi², Keinosuke Okamoto², Hiroyasu Yamanaka¹ (¹Lab. Mol. Microbiol. Sci., Fac. Pharm. Sci., Hiroshima International Univ., ²Collab. Res. Ctr. Okayama Univ.)

P2-101

Role of twin-arginine translocation system in *Citrobacter rodentium* fitness in the intestinal tract

Tsuyoshi Otake, Mayuka Fujimoto, Takeshi Haneda, ○Tsuyoshi Miki, Nobuhiko Okada (Dept. Microbiol., Sch. Pharm., Kitasato Univ.)

5. Pathogenicity -b. Toxins, effectors and physically active substances

P2-102 (WS06-3)

Group A *Streptococcus* modulates host membrane trafficking to impair epithelial barrier integrity

○Junpei Iibushi, Hitotaka Toh, Takashi Nozawa, Ichiro Nakagawa (Dept. Microbiol., Grad. Sch. Med., Kyoto Univ.)

P2-103 (WS06-2)

Domain analysis of BopN produced by *Bordetella*.

○Saaya Kinoshita, Asaomi Kuwae, Akio Abe (Grad. Sch. Infection Control Sciences, Kitasato Univ.)

P2-104 (WS06-1)

Cholix interacts with prohibitins and induces apoptosis mitochondrial dysfunction in hepatocytes

○Kinnosuke Yahiro¹, Kohei Ogura², Yasuhiko Terasaki³, Satoru Miyagi⁴, Eiki Yamasaki⁵ (¹Dept. Mol. Infect., Grad. Sch. Med. Chiba Univ., ²Adv. Health. Care. Sci. Res. Unit., Inst. Frnt. Sci. Init, Kanazawa Univ., ³Dept. Anal. Hum. Pathol., Nippon Med. Sch., ⁴Dept. Life Sci., Fac. Med., Shimane Univ., ⁵Diag. Cntr. Anim. Health. Food. Safety., Obihiro Univ. Agric. Vet. Med.)

P2-105

Proteome analysis of extracellular vesicles produced by *Streptococcus pyogenes*

○Kazunori Murase, Chihiro Aikawa, Takashi Nozawa, Ichiro Nakagawa (Dept. Microbiol., Grad. Sch. Med., Kyoto Univ.)

P2-106

Investigation of expression control mechanism of hyaluronidase in *Streptococcus intermedius*

○Toshifumi Tomoyasu^{1,2}, Mari Deguchi², Atsushi Tabata^{1,2}, Ayuko Takao³, Nobuko Maeda³, Hideaki Nagamune^{1,2} (¹Div. Biosci. & Bioindust., Grad. Sch. Tech., Indust. & Social Sci., Tokushima Univ., ²Dept. Biol. Sci. & Tech., Inst. Tech. & Sci., Tokushima Univ. Grad. Sch., ³Dept. Oral Bacteriol., Tsurumi Univ.)

P2-107**Activation of NLRP3 inflammasome by mycoplasmal lipopeptides only through the TLR2-mediated signals**

○Ayumi Saeki¹, Takeshi Into², Akira Hasebe¹, Ken-ichiro Shibata¹ (¹Dept. Oral Mol. Microbiol., Hokkaido Univ. Grad. Sch. Dent. Med., ²Dept. Oral Microbiol., Asahi Univ. Sch. Dent.)

P2-108**Lipid interaction analysis of botulinum neurotoxin type A using N-terminal heavy chain mutants**

○Tomoko Kohda, Shunji Kozaki, Masafumi Mukamoto (Dept. Vet. Sci., Grad. Sch. Life Environ. Sci., Osaka Pref. Univ.)

P2-109**Investigating the consequence of EPEC infection on the host biogenesis of exosomes**

○Hilo Yen, Toru Tobe (Dept. Biomed. info., Grad. Sch. Med., Osaka Univ.)

P2-110**Vaginal *Lactobacillus iners* impacts on cellular junctions of the human vaginal epithelia**

○Masahiro Ito^{1,2}, Adam J. Ratner³, Nobuhiko Okada¹, Melissa M. Herbst-Kralovetz^{2,4} (¹Dept. Microbiol., Sch. Pha., Kitasato Univ., ²Dept. Bas. Med. Sci., Univ. of Arizona Col. Med. Phoenix, ³Dept. Pediat. Microbiol., Divi. Pediat. Infect. Disea., New York Univ. Sch. Med., ⁴Dept. Obs. Gyn., Univ. of Arizona Col. Med. Phoenix)

P2-111**Diarrheagenic activity of each component of CPILe as a new *Clostridium perfringens* enterotoxin**

○Chie Monma¹, Dai Saiki¹, Kana Soeda¹, Yukako Shimojima¹, Jun Suzuki¹, Kenji Sadamasu¹, Tomohito Yamada², Toru Yoshida², Hideaki Tsuge², Yoichi Kamata³ (¹Tokyo Metropolitan Inst. Pub. Health, ²Kyoto Sangyo Univ., ³Koshien Univ.)

P2-112**Identification and functional analysis of a host protein targeted by mycobacterial effector Zmp1**

○Giichi Takaesu^{1,2}, Masayuki Umemura^{1,2}, Goro Matsuzaki^{1,2} (¹Mol. Microbiol. Group, Trop. Biosph. Res. Ctr., Univ. of the Ryukyus, ²Dept. Host Defense, Grad. Sch. Med., Univ. of the Ryukyus)

P2-113**Isolation of *Vibrio cholerae* O1 from environmental water using beads bound with anti-O1 antibody**

○Eizo Takahashi¹, Subha Sankar Paul², Goutam Chowdhury², Asish K. Mukhopadhyay², Shanta Dutta², Masatomo Morita³, Makoto Ohnishi³, Shin-ichi Miyoshi⁴, Keinosuke Okamoto¹ (¹Collabo. Res. Ctr. Okayama Univ. India, ²Div. Bacteriol. NICED, ³Bacteriol. I, NIID, ⁴Grad. Sch. Med. Dent. Pharm. Sci., Okayama Univ.)

P2-114**Molecular mechanism of *Clostridium perfringens* α -toxin-induced impairment of innate immunity**

○Masaya Takehara, Keiko Kobayashi, Masahiro Nagahama (Dept. Microbiol., Fac. Pharm. Sci., Tokushima Bunri Univ.)

P2-115***Aeromonas* serine protease decreases epithelial barrier function and promotes bacterial translocation**

○Hidetomo Kobayashi¹, Soshi Seike¹, Masafumi Yamaguchi², Eizo Takahashi³, Keinosuke Okamoto³, Hiroyasu Yamanaka¹ (¹Laboratory of Molecular Microbiological Science, Faculty of Pharmaceutical Sciences, Hiroshima International Univ., ²Laboratory of Physiological Chemistry, Faculty of Pharmaceutical Sciences, Hiroshima International Univ., ³Collaborative Research Center of Okayama Univ. for Infectious Diseases in India)

P2-116**BafA, a novel *Bartonella* secreted protein promotes endothelial cell angiogenesis**

○Kentaro Tsukamoto¹, Akito Kawai¹, Masahiro Suzuki¹, Yasuhiko Horiguchi², Yohei Doi¹ (¹Dept. Microbiol., Fujita Health Univ. Sch. Med., ²Dept. Mol. Bact., RIMD, Osaka Univ.)

P2-117**Staphylococcal enterotoxin A evokes diarrhea after vomiting reflex in common marmoset**

○Shouhei Hirose^{1,2}, Krisana Asano^{1,2}, Hisaya Ono³, Kouji Narita¹, Dong-Liang Hu³, Akio Nakane² (¹Dept. Microbiol. Immunol., Grad. Sch. Med., Hirosaki Univ., ²Dept. Biopol. health., Grad. Sch. Med., Hirosaki Univ., ³Dept. Zoonoses, Sch. Vet. Med. Kitasato Univ.)

P2-118**Analysis of transport mechanism of hemagglutinin of botulinum toxin complex to adherens junctions**

○Sho Amatsu^{1,2}, Yukako Fujinaga¹ (¹Dept. Bacteriol., Sch. Med. Sci., Kanazawa Univ., ²Dept. Forensic Med. Pahol., Sch. Med. Sci., Kanazawa Univ.)

P2-119**Structural analysis and a clinical application of collagen-anchor from *Clostridial* collagenase**

○Osamu Matsushita¹, Takehiko Mima¹, Kazuyoshi Goto¹, Yumiko Yamamoto¹, Perry Caviness², Joshua Sakon², Kentaro Uchida³, Shin Nakamura⁴, Kentaro Okamoto⁴, Shogo Takashiba⁴ (¹Dept. Bacteriol., Okayama Univ. Grad. Sch. Med. Dent. Pharm. Sci., ²Dept. Chem. Biochem., Univ. Arkansas, USA, ³Dept. Orthop. Surg., Kitasato Univ. Sch. Med., ⁴Dept. Pathophysiol. Periodont. Sci., Okayama Univ. Grad. Sch. Med. Dent. Pharm. Sci.)

5. Pathogenicity -c. Cell invasion and intracellular parasitism

P2-120 (WS06-7)

Large peritoneal macrophage delivers *Salmonella* from the peritoneal cavity to the greater omentum

○Akiko Takaya¹, Shogo Tashiro¹, Tatsunari Yokoi¹, Yoshiyuki Goto², Motomichi Takahashi³, Kentaro Oka³, Hiroto Kawashima¹, Tomoko Yamamoto² (¹Dept. Microbiol. Immunol., Grad. Sch. Pharm. Sci., Chiba Univ., ²MMRC, Chiba Univ., ³Miyarisan Pharm. Co. Ltd)

P2-121 (WS06-5)

Induction mechanism analysis of LAPosome-like vesicles in *Streptococcus pneumoniae*-infected cells

○Sayaka Shizukuishi^{1,2}, Michinaga Ogawa¹, Naoki Takada^{1,3}, Akihiko Ryo², Haruko Takeyama³, Makoto Ohnishi¹ (¹Bacteriol. I, Nat. Inst. Infect. Dis., ²Dept. Microbiol., Yokohama City Univ., Grad. Sch. Med., ³Dept. Life Sci. and Med. Biosci., Waseda Univ.)

P2-122

The host cell death induced by the infection of intact *Mycobacterium tuberculosis* bacilli.

Mao Nakayama², Keiichi Taniguchi¹, Tomohiro Hasegawa², Takahiro Tanaka³, Shinsaku Sakurada³, Naoya Ohara⁴, Saotomo Itoh², Shigeaki Hida², Kikuo Onozaki², ○Takemasa Takii^{1,2} (¹Dept. Mycobacteriol., Res. Inst. of Tuberculosis, JATA, ²Dept. Hygienic chem., Grad. Sch. Pharm. Sci., Nagoya City Univ., ³Res. Ins., NCGM, ⁴Dept. Oral Microbiol., Grad. Sch. Med. Denti., Pharm., Okayama Univ.)

P2-123

Chlamydomonas pneumoniae regulates autophagy using the endogenous autophagy inhibitor GABAR-1 protein

○Yoshikazu Naiki, Yinzhi Lin, Naoko Morita, Kazuko Takahashi, Takayuki Komatsu, Naoki Koide (Dept. Infect. Immunol. Aichi Med. Univ.)

P2-124

Francisella soluble lyric transglycosylase is involved in intracellular growth and immunosuppression

○Takashi Shimizu¹, Takemasa Nakamura¹, Kenta Watanabe¹, Akihiko Uda², Masahisa Watarai¹ (¹Lab. Vet. Pub. Hlth., Jnt. Fac. Vet. Med., Yamaguchi Univ., ²Dept. Vet. Sci., NIID)

P2-125

Pathogenicity of prevalent-type *Streptococcus dysgalactiae* subsp. *equisimilis* strains

Miki Matsue¹, ○Kohei Ogura², Tohru Miyoshi-Akiyama³, Shigefumi Okamoto¹ (¹Dept. Clinic. Labo. Sci., Inst. Med. Pharm. Health Sci., Kanazawa Univ., ²Inst. Front. Sci. Init., Kanazawa Univ., ³Patho. Micro. Lab., Res. Inst., NCGM)

P2-126

Metabolic adaptation to glycolysis is a basic defense mechanism of macrophages for *M. tuberculosis*

○Mayuko Osada-Oka¹, Yuriko Ozeki², Takehiro Yamaguchi³, Sohkiichi Matsumoto³ (¹Food Hyg. Env. Health., Grad. Sch. Life Env. Sci., Kyoto Pref. Univ., ²Dept. Bacteriol., Grad. Sch. Med., Niigata Univ., ³Dept. Pharmacol., Osaka City Univ. Med. Sch.)

5. Pathogenicity -d. Immune escape and proliferation in hosts

P2-127 (WS06-6)

Gram-positive pathogens activate inflammasome to promote bacterial survival in infected mice

○Hideki Hara¹, Gabriel Nunez², Akihiko Yoshimura¹ (¹Dept. Microbiol. Immunol., Sch. Med., Keio Univ., ²Dept. Pathol., Sch. Med., Univ. Michigan)

P2-128

Lipopolysaccharide-deficient *Acinetobacter baumannii* is sterilized by neutrophil-produced lysozyme

○Go Kamoshida^{1,2}, Norihiko Takemoto³, Tohru Miyoshi-Akiyama³, Masataka Oda², Yasuo Ono² (¹Dept. Microbiol. and Infect. Cont. Sci. Kyoto Pharm. Univ., ²Dept. Microbiol. and Immunol., Teikyo Univ. Sch. Med., ³Pathogenic Microbe Lab., Dept. Infect. Dis., NCGM)

5. Pathogenicity -e. Infection models

P2-129

Effects of *Mycoplasma pneumoniae* infection on Th2 immune response

○Satoshi Kurata¹, Takako Osaki¹, Hideo Yonezawa¹, Tomoko Hanawa¹, Haruhiko Taguchi², Shigeru Kamiya³ (¹Dept. Infect. Dis., Kyorin Univ., Sch. Med., ²Dept. Immunol., Faculty of Health Sci., Kyorin Univ., ³Faculty of Health Sci., Kyorin Univ.)

P2-130

Analysis of host response in pulmonary MAC disease model mice.

○Chiaki Kajiwara, Ayako Shiozawa, Kazuhiro Tateda (Dept. Microbiol. Infect. Dis., Sch. Med., Toho Univ.)

P2-131

Type III secretion system genes of *E. piscicida* associated with virulence in Japanese flounder

○Chigusa Suezawa¹, Yasuhiko Kawato², Takamitsu Sakai², Jun Okuda¹ (¹Div. Microbiol., Dept. Med. Tech., Kagawa Pref. Univ. Health Sci., ²NRIA FRA)

P2-132**Role of chemokine receptors in the migration of mycobacterial antigen-specific T cells into the lung**

○Masayuki Umemura^{1,2}, Masatoshi Yamasaki¹, Toshiki Tamura³, Goro Matsuzaki^{1,2} (¹Mol. Microbiol. Gr., TBRC, Univ. Ryukyus, ²Dept. Host Def., Grad. Sch. Med., Univ. Ryukyus, ³Dept. Mycobacteriol., LRC, NIID)

P2-133**Mechanism of hyper-virulent mutation in *Streptococcus pyogenes***

○Norihiko Takemoto¹, Ayae Nishiyama², Mei Horino^{1,3}, Watanabe Shinya⁴, Tohru Miyoshi-Akiyama¹ (¹Pathogenic Microbe Lab., Dept. Infectious Diseases, NCGM, ²Bacterial Infection Lab., Dept. Infectious Diseases, NCGM, ³Tokyo College of Biotechnology, ⁴Div. Bacteriol., Dept. Infect. Immunity, Sch. Med., Jichi Med. Univ.)

P2-134**Necrotic soft tissue serves as bacterial reservoir in necrotizing soft tissue infections.**

○Takashi Kashimoto, Kohei Yamazaki, Shunji Ueno (Laboratory of Veterinary Public Health, Kitasato Univ.)

P2-135***Staphylococcus aureus* exacerbates colitis in an experimental model of inflammatory bowel disease**

○Hisaya Ono^{1,2}, Ryousuke Mogi¹, Masashi Okamura¹, Krisana Asano², Akio Nakane^{2,3}, Dong-Liang Hu¹ (¹Lab. Zoonoses, Sch. Vet. Med., Kitasato Univ., ²Dept. Microbiol. Immunol., Grad. Sch. Med., Hirosaki Univ., ³Dept. Biopolymer. Health Sci., Grad. Sch. Med., Hirosaki Univ.)

5. Pathogenicity -f. Others

P2-136**Butyric acid (periodontopathic bacterial metabolite) effects on aggravation of ameloblastoma**

○Taichi Ishikawa, Yu Shimoyama, Yoshitoyo Kodama, Minoru Sasaki (Div. Mol. Microbiol., Iwate Med. Univ.)

P2-137**The local anesthetic lidocaine suppresses T cell proliferation stimulated by TSST-1.**

○Hidehito Kato¹, Masayuki Kobayashi², Makoto Ozaki², Ken ichi Imanishi³, Naoko Yanagisawa¹ (¹Dept. Microbiol. Immunol., Sch. Med., TWM Univ., ²Dept. Anesthesiol., Sch. Med., TWM Univ., ³Dept. Nursing Sciences, Sch. Health Sciences, Japan Univ.)

P2-138**Contribution of *in vivo*-induced antigens to pathogenicity of *S. Gallinarum* in chickens**

○Masashi Okamura¹, Takeshi Haneda², Akiko Tamura¹, Tsubasa Hamamoto¹, Shinjiro Ojima¹, Hisaya Ono¹, Dong-Liang Hu¹ (¹Lab. Zoonoses, Kitasato Univ. Sch. Vet. Med., ²Lab. Microbiol., Kitasato Univ. Sch. Pharm.)

P2-139**Oral infection with *Streptococcus sanguinis* accelerates atherosclerosis in hyperlipidemic mice**

○Tomomi Hashizume-Takizawa¹, Yohei Yamaguchi¹, Ryoki Kobayashi², Noriko Shinozaki-Kuwahara¹, Masanori Saito¹, Tomoko Kurita-Ochiai¹ (¹Dept. Microbiol. Immunol., Nihon Univ. Sch. Dent. at Matsudo, ²Dept. Community Oral Health, Nihon Univ. Sch. Dent. at Matsudo)

P2-140**Acid-resistance systems in *Candida glabrata***

○Azusa Takahashi-Nakaguchi, Michiyo Sato-Okamoto, Hiroji Chibana (Medic. Micol. Res. Cent., Chiba Univ.)

P2-141**Gut microbiome and metabolome analyses in adenoma-carcinoma sequence of colorectal cancer**

○Sayaka Mizutani^{1,2}, Shinichi Yachida³, Hirosugu Shiroma¹, Satoshi Shiba⁴, Takuji Yamada^{1,5} (¹Sch. Life Science and Tech., Tokyo Inst. of Tech., ²JSPS Research Fellow, ³Dept. Cancer Genome Informatics, Grad. Sch. Med., Osaka Univ., ⁴National Cancer Research Center, ⁵PRESTO)

P2-142**Studies on pathogenicity of the elastolytic proteinases produced by *Aspergillus oryzae***

○Yumiko Komori, Toshiaki Nikai (Dept. Microbiol., Fac. Pharm., Meijo Univ.)

P2-143**Analysis of the biofilm organization in *Acinetobacter* augmented with the host stress hormone.**

○Masato Inaba¹, Yohei Doi¹, Yoshichika Arakawa² (¹Dept. Infect. Dis., Sch. Med., Fujita health Univ., ²Dept. Bacteriol., Nagoya Univ. Grad. Sch. Med.)

6. Host defense -a. Innate immunity

P2-144

Effect of macrolides on resistance against nitrosative stress in *Pseudomonas aeruginosa*

○Takeshi Shimizu¹, Shota Murata², Shota Ishige¹, Kiyohiro Kai¹, Konosuke Mitsutsuka¹, Haruyoshi Tomita^{3,4}, Koichi Tanimoto⁴, Akio Matsumoto⁵ (¹Dept. Mol. Infect., Grad. Sch. Med, Chiba Univ., ²Div. Lab. Med, Chiba Univ. Hosp., ³Dept. Bacteriol., Grad. Sch. Med., Gunma Univ., ⁴Lab. Bacterial Drug Resi., Grad. Sch. Med., Gunma Univ., ⁵Dept. Aging Pharmacol., Sch. Med., Toho Univ.)

P2-145

Critical role of sequential sensing in protection against severe invasive streptococcal infection

○Takayuki Matsumura¹, Sadako Yoshizawa², Tadayoshi Ikebe³, Makoto Ohnishi³, Sho Yamasaki⁴, Yoshimasa Takahashi¹, Manabu Ato⁵ (¹Dept. Immunol., Natl. Inst. Infect. Dis., ²Dept. Microbiol. Infect. Dis., Toho Univ. Sch. Med., ³Dept. Bacteriol. I, Natl. Inst. Infect. Dis., ⁴Dept. Mol. Immunol., RIMD, Osaka Univ., ⁵Dept. Mycobacteriol., Lepr. Res. Ctr., Natl. Inst. Infect. Dis.)

P2-146

Gasdermin D mediates the release and maturation of IL-1 α during inflammasome formation

○Kohsuke Tsuchiya, Takashi Suda (Div. Immunol. Mol. Biol. Cancer Res. Inst. Kanazawa Univ.)

P2-147 (WS11-4)

Antimicrobial peptide LL-37 induces antibacterial ectosomes from neutrophils and exosomes

○Yumi Kumagai¹, Taisuke Murakami¹, Kyoko Kuwahara², Isao Nagaoka¹ (¹Dept. Host Defense and Biochemical Research, Sch. Med., Juntendo Univ., ²Dept. Microbiol., Sch. Med., Juntendo Univ.)

P2-148

A development of new combination therapy on colistin-resistant bacteria

○Aki Hirabayashi¹, Keigo Shibayama², Masato Suzuki¹ (¹Dept. AMR, Nat. Inst. Infect. Dis., ²Dept. Bacteriol. II Nat. Inst. Infect. Dis.)

6. Host defense -b. Acquired immunity, vaccines and prevention and control of infections

P2-149

Development of a booster vaccine for pulmonary tuberculosis consisting of MDP1 and DNA adjuvant

○Jun-ichi Maeyama¹, Daisuke Hayashi², Toshiko Yamamoto², Shinji Ooishi², Toshio Yamazaki¹, Yuriko Ozeki³, Fumiko Suzuki⁴, Sumiko Iho⁴, Sohkiichi Matsumoto³, Saburo Yamamoto² (¹Natl. Inst. Infect. Dis., ²Japan BCG Laboratory, ³Sch. Med., Niigata Univ., ⁴Fac. Med. Sci., Univ. Fukui)

P2-150

Evaluation of growth inhibitory and synergistic effect of compound H1 against Group A Streptococcus

○Chihiro Aikawa¹, Masato Hoshino², Makoto Nakakido², Satoru Nagatoishi², Kazunori Murase¹, Kouhei Tsumoto², Ichiro Nakagawa¹ (¹Dept. Microbiol., Grad. Sch. Med., Kyoto Univ., ²Dept. Bioeng., Sch. Eng., Univ. of Tokyo)

P2-151

Development of the novel intranasal vaccine against highly virulent cryptococcosis

○Keigo Ueno¹, Nao Yanagihara^{1,2}, Kiminori Shimizu², Satoshi Yamagoe¹, Yoshitsugu Miyazaki¹ (¹Dept. Chemother. Myco. NIID, ²Dept. Biolog. Sci. Fac. Indust. Sci. Technol. Tokyo Univ. of Sci.)

P2-152 (WS11-2)

Membrane vesicle-mediated immunogenic protein secretion in *Clostridium perfringens*

○Hibiki Okuwaki¹, Nozomu Obana^{2,3}, Kyoko Nagayama¹, Ryoma Nakao⁴, Hidenobu Senpuku⁴, Nobuhiko Nomura^{3,5} (¹Grad. Life Environ. Sci., Univ. Tsukuba, ²TMRC, Fac. Medicine, Univ. Tsukuba, ³MiCS, Univ. Tsukuba, ⁴Dept. Bacteriol. I, Natl Inst Infect Dis., ⁵Fac. Life Environ. Sci., Univ. Tsukuba)

P2-153 (WS11-1)

A proline biosynthesis mutant of the intracellular pathogen *Erysipelothrix rhusiopathiae*

○Sayaka Nishikawa¹, Yohsuke Ogawa¹, Kazumasa Shiraiwa¹, Masahiro Eguchi¹, Yoshihiro Shimoji^{1,2} (¹NIAH, NARO, ²Res. Inst. Biomed. Sci., Tokyo Univ. Sci.)

P2-154 (WS11-3)

Pioglitazone reinforces liver innate immunity against bacterial infection in aged mice

○Masahiro Nakashima, Manabu Kinoshita, Hiroyuki Nakashima, Shuhji Seki (Dept. Immunol. Microbiol., Nat. Def. Med. Col.)

P2-155**An oral carbonaceous adsorbent AST-120 attenuates drug resistance and virulence in *Escherichia coli***

○Hidetada Hirakawa¹, Haruyoshi Tomita^{1,2} (¹Dept. Bacteriol., Sch. Med., Gunma Univ., ²Lab. Drug Resistance., Sch., Med., Gunma Univ.)

P2-156**Analysis of the Host Immune Response against Mycobacterial Membrane Vesicles**

○Takehiro Yamaguchi, Shuhei Tomita (Dept. Pharmacol., Sch. Med., Osaka City Univ.)

P2-157**Oral immunization with antigen/adjuvant co-producing *Lactococcus lactis***

○Keita Takahashi, Nagisa Tokunoh, Daiki Yanagisawa, Nagisa Inoue (Microbiol. Immunol., Gifu Pharm. Univ.)

6. Host defense -c. Others

P2-158**The analysis of novel enterococcal mobile linear plasmid pELF1 encoding *vanA* and *vanM* gene clusters**

○Yusuke Hashimoto¹, Takahiro Nomura¹, Hidetada Hirakawa¹, Koichi Tanimoto², Haruyoshi Tomita^{1,2} (¹Dept. Bacteriology, Grad. Sch. Med., Gunma Univ., ²Lab. Bacterial Drug resistance, Grad. Sch. Med., Gunma Univ.)

P2-159**Characterization of growth inhibitory action of *Streptococcus intermedius* in pharyngeal flora.**

○Rina Tanaka, Masanori Hashino, Tsuyoshi Sekizuka, Makoto Kuroda (Pathogen Genomics Center, Nat. Inst. Infect. Dis.)

P2-160**The sterilizing effect of irradiation with 222 nm-UVC against pathogenic bacteria, fungi and viruses**

○Kouji Narita^{1,2}, Krisana Asano^{2,3}, Masahiro Sasaki⁴, Yukihiro Morimoto⁴, Tatsushi Igarashi⁴, Akio Nakane³ (¹Inst. for Animal Exp., Hirosaki Univ. Grad. Sch. Med., ²Dept. Microbiol. and Immunol., Hirosaki Univ. Grad. Sch. Med., ³Dept. Biopolymer and Health Sci., Hirosaki Univ. Grad. Sch. Med., ⁴Ushio Inc.)

P2-161**Physiological role of β -lactam inactivation mediated by cysteine in redox-dependent manner**

○Katsuhiko Ono¹, Hiroyasu Tsutsuki¹, Tianli Zhang¹, Toshihiro Ihara¹, Takaaki Akaike², Tomohiro Sawa³ (¹Dept. Microbiol., Grad. Sch. Med. Sci., Kumamoto Univ., ²Fac. Adv. Sci. Tech., Kumamoto Univ., ³Dept. Envir. Med. Mol. Toxicol., Grad. Sch. Med., Tohoku Univ.)

P2-162**Analysis of genetic background of CTX-M-producing *Escherichia coli* in healthy individuals in Japan**

○Kai Saito¹, Akiyo Nakano¹, Takashi Masui^{1,2}, Ryuichi Nakano¹, Mako Watanabe¹, Yuki Suzuki¹, Naoki Kakuta¹, Hisakazu Yano¹ (¹Dept. Microbiol. Infect. Dis., Nara Med. Univ., ²Dept. Otolaryngol Head Neck Surg., Nara Med. Univ.)

P2-163**Bactericidal effect of low-concentration ClO₂ gas against *P. aeruginosa* and its mechanism of action**

○Masafumi Futatsukame, Hirofumi Morino, Takanori Miura, Kyoichi Oshida (TAIKO PHARMACEUTICAL CO., LTD.)

P2-164 (WS11-7)**Therapeutic phage-mediated control of skin microbiome in atopic dermatitis.**

○Yuzuki Shimamori^{1,2}, Tohru Suzuki³, Shoichi Mitsunaka¹, Masumi Saito³, Kazuhiro Kuzui³, Shigeki Takeda², Tomoko Kubori¹, Hiroki Nagai¹, Hiroki Ando¹ (¹Dept. Microbiol., Sch. Med., Gifu Univ., ²Sch. Sci. and Tech., Gunma Univ., ³Fac. of Appl. Biol. Sci., Gifu Univ.)

P2-165 (WS11-8)**Generation of bactericidal chimeric phage against MRSA using phagemid**

○Feng-Yu Li, Kotaro Kiga, Xin Ee Tan, Longzhu Cui (Div. Bacteriol, Sch. Med., Jichi Med. Univ.)

P2-166 (WS11-5)**Biocontrol of *Clostridium perfringens* by using Two Types of Specific Endolysins**

○Hirofumi Nariya¹, Maho Okada², Eiji Tamai³, Hiroshi Sekiya³, Toshi Shimamoto¹, Tadashi Shimamoto¹ (¹Lab. Food Microbiol. Hyg., Grad. Sch. Integrated Sci. Life., Hiroshima Univ., ²Lab. Food Microbiol. Hyg., Grad. Sch. Biosphere Sci., Hiroshima Univ., ³Dept. Infect. Dis., Col. Pharm. Sci., Matsuyama Univ.)

P2-167 (WS11-6)**Fitness Cost Induced by Phage Resistance Shifts Phage Susceptibility in *P. aeruginosa* mutant.**

○Jumpei Fujiki¹, Montgomery Munby¹, Tomohiro Nakamura¹, Satoshi Gondaira², Michihito Sasaki³, Masaru Usui⁴, Hidetoshi Higuchi², Hirofumi Sawa³, Yutaka Tamura^{4,5}, Hidetomo Iwano¹ (¹Lab. Vet. Bio. Chem., Sch. Vet. Med., RGU, ²Lab. Vet. Hyg., Sch. Vet. Med., RGU, ³Div. Mol. Pathobiol., Ctr. Zoonosis. Cont., Hokkaido Univ., ⁴Lab. Food. Microbiol., Sch. Vet. Med., RGU, ⁵Ctr. Vet. Drug. Dev., RGU)

P2-168**Characterization of class D β -lactamase from carbapenem-intermediate resistant *Bacteroides fragilis***

○Takatsugu Goto¹, Masahiro Hayashi¹, Yuji Morita², Kaori Tanaka¹ (¹Div. Anaerobe Res., Life Sci. Res. Ctr., Gifu Univ., ²Dept. Infect. Control Sci., Meiji Pharm. Univ.)

P2-169**Deletion of the lytic transglycosylase gene in MRSA induces β -lactam sensitization**

○Ken-ichi Okuda^{1,2}, Anne-Aurelie Lopes¹, Yutaka Yoshii¹, Satomi Yamada¹, Mari Nagakura¹, Yoshimitsu Mizunoe¹, Yuki Kinjo^{1,2} (¹Dept. Bacteriol., Jikei Univ. Sch. Med., ²Jikei Ctr. Biofilm Res. Tech.)

P2-170**Evaluation of antibacterial prunin lauroyl ester on mouse model of experimental periodontitis**

Erika Wada¹, Chiharu Ito¹, Mai Shinohara¹, Miki Maetani¹, Ayaka Yazawa¹, Tatsuji Sakamoto², Mayo Yasugi², Masami Miyake², ○Shigeki Kamitani¹ (¹Div. Clinical Nutrition., Osaka Pref. Univ., ²Grad. Sch. Life. Environmental Sciences., Osaka Pref. Univ.)

P2-171**Molecular mechanism of dissociation of glycopeptide antibiotics in *Staphylococcus capitis***

○Yusuke Sato'o¹, Mitsutaka Shoji², Shinya Watanabe¹, Yoshifumi Aiba¹, Kotaro Kiga¹, Ken Kikuchi³, Keiichi Hiramatsu⁴, Longzhu Cui¹ (¹Div. Bacteriol. Sch. Med., Jichi Med. Univ., ²Funabashi Municipal Medical Center, ³Infect. Dis., Tokyo Womens Med. Univ., ⁴Center Excel. Infect. Cont. Sci., Grad. Sch. Med., Juntendo Univ.)

P2-172**Search for spices with antibacterial activity against periodontal pathogen**

○Nanami Yoshino^{1,2}, Ryoma Nakao² (¹Central Res. Inst., S&B FOODS Inc., ²Dept. Bacteriol. 1, Natl. Inst. Infect. Dis.)

P2-173**Structural and functional analysis of autolysin CD24020 catalytic domain of *Clostridium difficile***

○Eiji Tamai¹, Shigehiro Kamitori², Hiroshi Sekiya¹, Jyurina Kawasaki¹, Kaho Murakami¹ (¹Dept. Infect. Dis., Col. Pharm. Sci., Matsuyama Univ., ²LSRC, Fac. Med., Kagawa Univ.)

P2-174**Novel bacteriocin produced by *Staphylococcus epidermidis* active against nasal commensals**

○Yuichi Oogai¹, Atsuko Watanabe², Miki Kawada-Matsuo¹, Hitoshi Komatsuzawa³ (¹Dept. Oral-Microbiol., Grad. Sch. Med. and Dent., Kagoshima Univ., ²Dept. Orthodontics and Dentofacial Orthopedics, Grad. Sch. Med. and Dent., Kagoshima Univ., ³Dept. Bacteriol., Grad. Sch. Biomedical and Health Sch., Hiroshima Univ.)

P2-175**Inhibition of FosA by Phosphonofornate in Multidrug-Resistant Gram-Negative Pathogens.**

○Ryota Ito¹, Yohei Doi^{1,2} (¹Dept. Infect Dis. Sch. Med., Fujita Health Univ., ²Dept. Microbiol. Sch. Med., Fujita Health Univ.)

7. Antimicrobial agents and resistance**-a. Antimicrobial agents****P2-176****On soil bacteria isolated from Kozu-shima island producing antibacterial compound.**

○Tadashi Baba¹, Hiroki Kato², Yuuhi Kumazawa³, Yuh Morimoto¹, Tatsuya Tada⁴, Yasuhiro Igarashi², Teruo Kirikae⁴, Keiichi Hiramatsu¹ (¹Center of Excellence for Infection Control Science, Grad. Sch. Med., Juntendo Univ., ²Biotech. Res. Center and Dept. Biotech., Toyama Prefectural Univ., ³Juntendo Univ. Sch. Med., ⁴Dept. Microbiol. Juntendo Univ. Sch. Med.)

P2-177**Role of P2X7 in LL-37-induced chemokine production and cytotoxicity in gingival fibroblasts**

○Megumi Inomata, Takeshi Into (Dept. Oral Microbiol., Sch. Dent., Asahi Univ.)

P2-178**Growth inhibitors of *Porphyromonas gingivalis* identified by using a screening system**

○Keitarou Saiki, Yumiko Urano-Tashiro, Kiyoshi Konishi, Yukihiro Takahashi (Dept. Microbiol., Nippon Dental Univ. Sch. Life Dent. Tokyo)

P2-179**A short peptide derived from the ZorO toxin functions as an effective antimicrobial.**

○Yuichi Otsuka¹, Tomohiro Ishikawa², Chisato Takahashi², Michiaki Masuda² (¹Dept. Biochem. and Mol. Biol., Grad Sch. Sci. and Eng., Saitama Univ., ²Dept. Microbiol., Sch. Med., Dokkyo Medical Univ.)

P2-180**Antibacterial activity of *Bacillus subtilis* natto against *Staphylococcus aureus***

○Akio Chiba, Yuki Kinjo (Dept. Bacteriol., Sch. Med., Jikei Univ.)

7. Antimicrobial agents and resistance**-b. Antimicrobial resistance****P2-181 (WS05-7)****Genetic analysis of highly β -lactam-resistant mutants generated from OS-MRSA**

○Shinya Watanabe, Tanit Boonsiri, Kanate Thititanapakorn, XinEe Tan, Yoshifumi Aiba, Yusuke Sato'o, Kotaro Kiga, Yusuke Taki, Teppei Sasahara, Longzhu Cui (Div. Bacteriol., Dept. Infect. Immunity, Sch. Med., Jichi Med. Univ.)

P2-182 (WS05-6)**bla_{CTX-M} horizontal transfer intra- and inter- families**

○Nobuyoshi Yagi, Itaru Hirai (Lab, Microbiol., Sch. Health. Sci., Univ. The Ryukyus)

P2-183**Expression of carbapenem resistance in *Enterobacteriaceae* with chromosome/plasmid located bla_{NDM}**

○Noriko Sakamoto¹, Yukihiro Akeda^{1,2}, Yo Sugawara¹, Dan Takeuchi¹, Kazunori Tomono², Shigeyuki Hamada¹ (¹RCC-ERI, RIMD, Osaka Univ., ²Osaka Univ. Hosp.)

P2-184**Regulation of carbapenemase NmcA expression in *Enterobacter cloacae* complex by induction assays**

○Ryuichi Nakano¹, Akiyo Nakano¹, Yuki Yamada², Kazuya Narita², Yuki Suzuki¹, Akira Suwabe^{2,3}, Hisakazu Yano¹ (¹Dept. Microbiol. Infect. Dis., Nara Med. Univ., ²Div. Ctr. Clin. Lab., Iwate Med. Univ. Hosp., ³Dept. Lab. Med., Iwate Med. Univ. Sch. Med.)

P2-185**Streptomycin dependent *Mycobacterium bovis* BCG possessing a 513 cytosine insertion in 16S rRNA gene**

○Naoko Honda¹, Norito Satoh², Masaaki Nakayama², Takayuki Matsumura³, Tsuyoshi Sekizuka⁵, Makoto Kuroda⁵, Manabu Ato⁴, Kazuo Kobayashi³, Koji Ishii¹, Naoya Ohara² (¹Dept. Qual. Assur. Radiol. Protect., Natl. Inst. Infect. Dis., ²Dept. Oral Microbiol., Okayama Univ. Grad. Sch. Med. Dent. & Pharm. Sci., ³Dept. Immunol., Natl. Inst. Infect. Dis., ⁴Dept. Mycobacteriology., Natl. Inst. Infect. Dis., ⁵Path. Genomics Ctr., Natl. Inst. Infect. Dis.)

P2-186**Spread of ESC-resistant *Salmonella* harboring bla_{CMV-2} among egg production environment**

○Hiroaki Shigemura¹, Toshi Maeda², Yuki Carle¹, Eiko Okuma¹, Akira Ohishi¹, Kouichi Murakami³ (¹Dept. Health Sci., Fukuoka Institute of Health and Environment Sciences, ²MP AGRO Co., Ltd, ³Infectious Disease Surveillance Center, National Institute of Infectious Diseases)

P2-187**Analysis of NDM-5 carbapenemase-producing extensively drug-resistant *Escherichia coli***

○Hayato Tanaka¹, Eriko Arai², Shin Suzuki², Wataru Hayashi³, Masaki Iimura¹, Eiji Soga¹, Yukiko Nagano⁴, Noriyuki Nagano^{1,3} (¹Dept. Med. Sci., Grad. Sch. Med., Shinshu Univ., ²Dept. Lab. Med., Shinshu Hosp., ³Dept. Med. Sci., Grad. Sch. Med. Sci. and Technol., Shinshu Univ., ⁴Dept. Bacteriol., Grad. Sch. Med., Nagoya Univ.)

P2-188**Isolation of group B *Streptococcus* with reduced β -lactam susceptibility from pregnant women**

○Hiroaki Moroi, Kouji Kimura, Hirotsugu Banno, Wanchun Jin, Jun-ichi Wachino, Keiko Yamada, Yoshichika Arakawa (Dept. Bacteriol., Sch. Med., Nagoya Univ.)

P2-189**Clonal Spread of Quinolone-resistant *Escherichia coli* among Sika Deer Inhabiting in Nara Park**

○Shiori Ikushima¹, Harumi Torii², Makoto Asano¹, Masatsugu Suzuki¹, Tetsuo Asai¹ (¹Grad. Sch. Vet. Sci., Gifu Univ., ²Ctr. Nat. Environ. Educ., Nara Univ. Educ.)

P2-190**Molecular imaging of the RND-type xenobiotic efflux transporter MmpL in *Mycobacterium tuberculosis***

○Kentaro Yamamoto, Noboru Nakata, Manabu Ato (Dept. Mycobacteriol., Leprosy Research Center, NIID)

P2-191**BFF122 shows inhibitory activities against *Mycobacterium tuberculosis* and *M. leprae* DNA gyrases**

○Hyun Kim¹, Yumi Maeda², Emiko Rimbara¹, Keigo Shibayama¹, Toshiki Tamura², Shigetaru Mori¹ (¹Dept. Bacteriology II., NIID, ²Dept. Mycobacteriology., Leprosy Research Center., NIID)

7. Antimicrobial agents and resistance -c. Others

P2-192 (WS05-8)**A study of killing *Legionella* spp. by mitomycin C induced phage**

○Kotaro Aoki, Tatsuya Nagasawa, Yoshikazu Ishii, Kazuhiro Tateda (Dept. Microbl. Infect. Dis. Toho Univ. Sch. Med.)

P2-193**Isolation and genome sequence of jumbo phages that infects the fish pathogen *Tenacibaculum maritimum***

○Akiko Kusumoto, Haruka Hideshima (Diag. Ctr. for Animal Health & Food Safety, Obihiro Univ. of Agri. & Vet. Med.)

P2-194**MPMBP down-regulates TLR2 ligand-induced proinflammatory cytokine production via NF- κ B activation**

○Riyoko Tamai¹, Keiko Suzuki², Izumi Mashima¹, Yusuke Kiyoura¹ (¹Dept. Oral Med. Sci., Sch. Dent., Ohu Univ., ²Dept. Pharmacol., Sch. Dent., Showa Univ.)

P2-195

Search for *Staphylococcus pseudintermedius* molecule associated with atopic dermatitis in dogs.

○Hidekatsu Shimakura^{1,2}, Hiroki Tsurui¹, Shuji Sakamoto³, Takuma Higuchi³, Keita Iyori⁴, Kenta Shimoike⁴, Masahiro Sakaguchi¹, Jumpei Uchiyama¹ (¹Dept. Microbiol., Azabu Univ., ²Dept. Microbiol., Sch. Med., Kitasato Univ., ³Kochi Univ., ⁴VetDerm Tokyo)

P2-196

Salmonella infection promotes anti-tumor immune response.

○Yutaka Horiuchi, Ryotaro Iwata, Nobuharu Kobayashi, Takashi Murakami (Dept. Microbiol., Saitama Medical Univ.)

Luncheon Seminar

LS1

19th, February (Wed) 11:55–12:55
Room 1 (2F Big Hall)

MC: Teppei Komatsu (Illumina K.K.)

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Beyond metagenomes, Single-cell genomics illuminates microbiome functionality

○Masahito Hosokawa^{1,2} (¹bitBiome, Inc., ²Waseda Research Institute for Science and Engineering, Waseda University)