On-demand Presentation

1 Microbial Taxonomy
a. Phylogenetic Analyses, Taxonomy, and Typing

ODP-001
***Veillonella nakazawae* sp. nov., isolated from the oral cavity of Japanese children**
○Izumi Mashima[1,2], Citra F. Theodorea[3], Futoshi Nakazawa[3], Ariadna A. Djais[3], Tadao Kunihiro[4], Yoshiaki Kawamura[2], Masato Saitoh[5], Maiko Otomo[5], Riyoko Tamai[1], Yusuke Kiyoura[1] ([1]Dept. Oral Med. Sci., Sch. Dent., Ohu Univ., [2]Dept. Microbiol., Sch. Pharm., Aich Gakuin Univ., [3]Dept. Oral Biol., Fac. Dent., Univ. Indonesia, [4]Techno Suruga Labo., Co. Ltd., [5]Dept. Ped. Dent., Sch. Dent., Heal. Sci Univ. Hokkaido)

ODP-002
Comparative genomic analysis of *Mycobacterium intracellulare* clinical strains
○Yoshitaka Tateishi, Yuriko Ozeki, Akihito Nishiyama, Sohkichi Matsumoto (Dept. Bacteriol., Sch. Med., Niigata Univ.)

ODP-003
***Filobacterium* spp. found in human specimens constitutes an independent bacterial species**
○Fumio Ike (Exp. Anim. Div., RIKEN BRC)

1 Microbial Taxonomy
b. Methods in Detection and Identification of Microbes

ODP-004
Examination of novel application of endolysin to improve GBS test
○Masaya Ogata[1], Hidehito Matsui[2], Tadahiro Nasukawa[1], Iyo Uchiyama[1], Masato Higashide[3], Masahiro Sakaguchi[1], Hideaki Hanaki[2], Jumpei Uchiyama[1] ([1]Dept. Microbio, Sch. Vet., Azabu Univ., [2]Dept. Infect. Control, Lab. Omura., Kitazato Univ., [3]Lab. Kotobiken)

ODP-005
Prevalence and antimicrobial resistance of *Salmonella* in poultry in Yamaguchi
○Tomoya Yamamoto[1], Hajime Toyofuku[2], Tomoko Mizote[3] ([1]Dept. Health and Welfare, Grad. Sch., Yamaguchi Pref. Univ., [2]Joint Fac. Vet. Med., Yamaguchi Univ., [3]Dept. Nurs. and Nutr., Yamaguchi Pref. Univ.)

ODP-006
Evaluation of quantitative 16S metagenomic analysis using spike-in archaeal genome
○Ayumu Ohno[1], Mano Takahashi[1], Takuya Habara[1], Kirill Kryukov[2], So Nakagawa[1], Tadashi Imanishi[1] ([1]Dept. Molecular Life Science., Sch, Med., Tokai Univ, [2]Dept. Genomics and Evolutionary Biology, National Institute of Genetics)

1 Microbial Taxonomy
c. Others

ODP-007
Diversification of *Porphyromonas gingivalis* standard strains revealed by difference in proliferation
○Keitarou Saiki, Yumiko Urano-Tashiro, Yukihiro Takahashi (Dept. Microbiol., Sch. Life Dent., Nippon Dental Univ.)

2 Microbial Ecology
a. Ecology, Symbiosis, and Environmental Microbiology

ODP-008/WS4-7
A symbiotic relationship between intestinal lymphoid tissue resident Alcaligenes and dendritic cells
○Koji Hosomi[1], Naoko Shibata[1,2,3], Atsushi Shimoyama[4], Tomoya Uto[4], Takahiro Nagatake[1], Haruko Takeyama[3], Koichi Fukase[4], Hiroshi Kiyono[2], Jun Kunisawa[1,2,3,4,5] ([1]National Institutes of Biomedical Innovation, Health, and Nutrition, [2]The Univ. of Tokyo, [3]Waseda Univ., [4]Osaka Univ., [5]Kobe Univ.)

ODP-009/WS4-1
Detection of airborne bacteria by the handmade air sampler build by 3D printer
○Torahiko Okubo[1], Satoru Miyazaki[1], Masato Sumi[1], Jeewan Thapa[2], Hiroyuki Yamaguchi[1] ([1]Fac. Health Science, Hokkaido Univ., [2]Res. Cent. Zoonosis Control Hokkaido Univ.)

ODP-010/WS4-2
Analysis of *Legionella*-containing vacuoles in *Paramecium* hosts
○Kenta Watanabe, Takashi Shimizu, Masahisa Watarai (Dept. Vet Med., Yamaguchi Univ.)

ODP-011
Bacterial transport by amoeba that depend on symbiotic bacteria involves the Na^+/H^+ antiporter NhaA
○Nana Tanaka[1], Torahiko Okubo[1], Toyotaka Sato[2], Shin-ichi Yokota[2], Jeewan Thapa[3], Hiroyuki Yamaguchi[1] ([1]Fac. Health Sci., Hokkaido Univ., [2]Fac. Med, Sapporo Med. Univ., [3]Res. Cent. Zoonosis Control Hokkaido Univ.)

ODP-012
Interaction between ciliates and *Legionella* separated from sewage treatment plants using syringe
○Airi Kawashiro[1], Reiji Onuma[1], Torahiko Okubo[1], Jeewan Thapa[2], Hiroyuki Yamaguchi[1] ([1]Fac. Health Science, Hokkaido Univ., [2]Res. Cent. Zoonosis Control Hokkaido Univ.)

ODP-013

Suppresses of toxin release from *Clostridioide difficile* by intestinal microbes

○Haruyuki Imaohji[1], Miad Elahi[1], Masahito Hashimoto[2], Ayano Tada[1], Tomomi Kuwahara[1] ([1]Dept. Microbiol., Sch. Med., Kagawa Univ., [2]Dept. Chem. Biotech., & Chemical Eng., Kagoshima Univ.)

ODP-014

Evaluation of intestinal environmental viability of actinomycetes isolated from food

○Akira Take[1], Yoshihiko Sakaguchi[1], Yuki Inahashi[2], Kazuyoshi Gotoh[3], Shunji Hayashi[1], Naoki Omiya[4], Haru Kato[5] ([1]Dept. Microbiol., Sch. Med., Kitasato Univ., [2]Ōmura Satoshi Mem. Inst., Kitasato Univ., [3]Dept. Bacteriol., Grad. Sch. Med. Dent. Pharm. Sci., Okayama Univ., [4]Dept. Gastroenterol., Fujita Health Univ., [5]Dept. Bacteriol. II, NIID)

ODP-015

Effect of Heat-killed *L. johnsonii* against coccoid formation and drug sensitivity of *H. pylori*

○Fuhito Hojo[1], Takako Osaki[2], Hideo Yonezawa[2], Tomoko Hanawa[2], Shigeru Kamiya[3], Jiro Mitobe[2] ([1]Inst. Lab. Anim., Grad. Sch. Med., Kyorin Univ., [2]Dept. Infect. Dis., Kyorin Univ. Sch Med., [3]Facult. Health Sci., Kyorin Univ.)

ODP-016

Spatio-temporal analysis of mixed biofilms formation by skin bacteria

○Kaori Tsuryu[1], Nobuhiko Nomura[2,3], Andrew Shinichi Utada[2,3], Nozomu Obana[3,4] ([1]Grad. Sch. Life Environ. Sci., Univ. Tsukuba, [2]Fac. Life Environ. Sci., Univ. Tsukuba, [3]MiCS, Univ. Tsukuba, [4]TMRC, Fac. Med., Univ. Tsukuba)

2 Microbial Ecology
b. Microbiota

ODP-017

Little effect of unlinked rRNA genes on the rRNA operon-based metagenomic analysis in equine samples

○Yuta Kinoshita, Hidekazu Niwa, Eri Uchida, Toshio Nukada (Microbiol. Div., Equine Research Institute, JRA)

ODP-018/WS4-8

Shotgun metagenome sequencing identification of microbial genes associated with an oral disease

○Koji Yahara[4], Hiroko Yahara[1], Akimitsu Hiraki[2], Yutaka Maruoka[3], Aki Hirabayashi[4], Masato Suzuki[4] ([1]Genome Med. Sci. P.J. (Toyama), R.I., NCGM, [2]Sec. Oral Oncol., Dep. Oral Maxillofac. Surg, Fukuoka Dental. Coll., [3]Dep. Oral Maxillofac. Surg, H.P., NCGM, [4]AMR Res. Ctr., NIID)

ODP-019

Examination of *Vibrio cholerae* in Stools of Residents of Kolkata, India by Metagenomic Analysis

○Keinosuke Okamoto[1], Kei Kitahara[1], Eizo Takahashi[2], Shin-ichi Miyoshi[3], Daisuke Motooka[4], Shota Nakamura[4], Tetsuya Iida[4] ([1]Colla. Res. Cent. Infect. Dis. Ind., Okayama Uni., [2]Heal. Pharm., Yokohama Pharm. Uni., [3]Grad. Sch. Med. Den. Pharm. Sci., Okayama Uni., [4]Res. Inst. Micro. Dis., Osaka Uni.)

ODP-020

【Withdrawn】

ODP-021

Microbiota analysis of oral potentially malignant disorders and cancer site

○Yawaka Shitozawa[1,2], Kazumasa Fukuda[1], Midori Ogawa[1], Mitsumasa Saito[1] ([1]Dept. Microbiol., Sch. Med., UOEH, [2]Dept. Dentistry and Oral Surgery, Hospital, UOEH)

ODP-022

The role of Environmental Water in Kolkata, India in the survival of *Vibrio cholerae* in this area

○Kei Kitahara[1], Eizo Takahashi[2], Shin-ichi Miyoshi[3], Keinosuke Okamoto[1] ([1]Colla. Res. Cent. Infect. Dis. Ind., Okayama Uni., [2]Heal. Pharm., Yokohama Pharm. Uni., [3]Grad. Sch. Med. Den. Pharm. Sci., Okayama Uni.)

2 Microbial Ecology
c. Habitats, and Culture Conditions

ODP-023

Na+/H+ antiporter regulates desiccation tolerance in *Escherichia coli*

○Yoshiaki Enoeda[1], Nana Tanaka[1], Torahiko Okubo[1], Toyotaka Sato[2], Shin-ichi Yokota[2], Jeewan Thapa[3], Hiroyuki Yamaguchi[1] ([1]Fac. Health Science, Hokkaido Univ., [2]Fac. Med, Sap Med Univ., [3]Res. Cent. Zoonosis Control Hokkaido Univ.)

ODP-024

Conditions for acid treatment and culture for obtaining acid-resistant strains of *Campylobacter*

○Kanta Hamaguchi, Nana Taniguchi, Manami Yamaoka, Yoko Eguchi (Dept. Food Sci. Tech., BOST. Kindai Univ.)

ODP-025

Preservative efficacy test for eye drops（in-hospital preparation）

○Rina Shimada[1], Ryuta Nishi[1], Akiko Okuda[2], Yoichi Yamada[1], Kana Sato[2], Mana Kimura[1], Sumiko Shiota[1], Kazunobu Takayanagi[2] ([1]Dept. Molecular Biology., Sch. Pharm., Shujitsu Univ., [2]Dept. Pharm., Kurashiki Central Hospital)

2 Microbial Ecology
d. Others

ODP-026
Mechanisms of bile acid tolerance in *Lactobacillus casei* ATCC27139
◯Masahiro Ito, Nobuhiko Okada (Dept. Microbiol., Sch. Pha., Kitasato Univ.)

ODP-027
Effects of antibiotic treatment until weaning on nonalcoholic steatohepatitis in model mice
◯Nozomi Fujimoto, Miyuu Higasa, Akiko Sakurai, Keiko Kataoka (Dept. Microbiol. Genetic Anal., Sch. Med., Tokushima Univ.)

3 Microbial Structure and Physiology
a. Cell Surface Structure, Membrane Structure, and Cytoskeleton

ODP-028
Association of FtsZ with the intrabacterial nanotransportation system for *Helicobacter pylori* urease
◯Hong Wu[1], Shouichi Takayama[1], Shoichi Sakaguchi[1], Noritaka Iwai[2], Youichi Suzuki[1], Takashi Nakano[1] ([1]Dept. Microbiology and Infection Control, Osaka Medical College, [2]Grad. Sch. Bioscience and Biotechnology, Tokyo Institute of Technology)

ODP-029
Identification of glycopeptidolipid biosynthesis gene cluster from clinical *M. intracellulare* strain
◯Nagatoshi Fujiwara[1], Shin Nakaya[2], Yuji Miyamoto[3], Minoru Ayata[4], Takashi Naka[1], Shinji Maeda[5] ([1]Tezukayama Univ., [2]Otemae College of Nutrition, Dept Nutrition, [3]Leprosy Research Center, National Institute of Infectious Diseases, [4]Osaka City Univ. Grad. Sch. Medicine, Dept. Virology, [5]Hokkaido Univ. of Science, Fac. Pharmacy)

3 Microbial Structure and Physiology
b. Mobility

ODP-030
Role of C-terminal regions of FlhG in polar flagellar number regulation in *Vibrio alginolyticus*
◯Seiji Kojima[1], Yuxi Hao[2], Michio Homma[1] ([1]Div. Biol. Sci., Grad. Sch. Sci., Nagoya Univ., [2]Dept. Biol. Sci., Sch. Sci., Nagoya Univ.)

ODP-031/WS4-6
Rheotaxis in *Mycoplasma pneumoniae*
◯Daisuke Nakane[1], Yoshiki Kabata[2], Takayuki Nishizaka[2] ([1]Dept. Eng. Sci., Univ. of Electro-Communications, [2]Dept. Phys., Gakushuin Univ.)

ODP-032
Evaluation of the effect of surface protein of *Treponema denticola* on motility
◯Eitoyo Kokubu, Yuichiro Kikuchi, Kazuko Shibayama, Kazuyuki Ishihara (Dept. Microbiology, Tokyo Dental College)

ODP-033/WS4-5
Role of seven proteins conferring *Spiroplasma* swimming motility to synthetic bacterium JCVI-syn3.0
◯Hana Kiyama[1], Shigeyuki Kakizawa[2], Makoto Miyata[1,3] ([1]Grad. Sch. Sci., Osaka City Univ., [2]Bioproduction Research Institute, AIST, [3]OCARINA, Osaka City Univ.)

ODP-034/WS4-4
Structure of the helical cytoskeleton Fibril involved in *Spiroplasma* swimming revealed by cryoEM
◯Yuya Sasajima[1], Takayuki Kato[2], Tomoko Miyata[3], Keiichi Namba[3,4,5], Makoto Miyata[1] ([1]Grad. Sch. Sci., Osaka City Univ., [2]IPR., Osaka Univ., [3]Grad. Sch. Front. Biosci., Osaka Univ., [4]BDR & SPring-8 Center, Riken, [5]JEOL Yokogushi Res. Alliance. Lab. Osaka Univ.)

ODP-035
Imaging of amphitrichous flagellar rotations in *Magnetospirillum magneticum* AMB-1
◯Yukako Eguchi[1], Yuta Takaoka[2], So Kawamura[2], Yoshihiro Fukumori[3], Azuma Taoka[2,3] ([1]Car. Des. Lab. Gend. Equal., Kanazawa Univ., [2]Fac. Biol. Sci. Tech., Inst. Sci. Eng., Kanazawa Univ., [3]NanoLSI, Inst. Front. Sci. Init., Kanazawa Univ.)

3 Microbial Structure and Physiology
c. Others

ODP-036
Existence of extracellular DNA in pathogenic mycobacteria and its role in mycobacterial physiology
◯Aleksandr Vladimirovich Ilinov[1,2], Amina Kaboso Shaban[1], Mariko Hakamata[1], Akihito Nishiyama[1], Yuriko Ozeki[1], Yukari Fukusima[3], Chie Nakajima[3], Yoshitaka Tateishi[1], Yasuhiko Suzuki[3], Sohkichi Matsumoto[1] ([1]Dept. Bacteriol., Sch. Med. Niigata Univ., [2]Dept. General Surgery, Krasnoyarsk Med. Univ., [3]Division Bioresources, Hokkaido Univ. Research Center for Zoonosis Control)

ODP-037

Comparison of cell morphology between the species in genus *Mycobacteroides* examined with cryo-TEM

○Hiroyuki Yamada[1], Kinuyo Chikamatsu[1], Akio Aono[1], Kazuyoshi Murata[2], Naoyuki Miyazaki[3], Yoko Kayama[2,5], Nagatoshi Fujiwara[4], Shinji Maeda[5], Satoshi Mitarai[1] ([1]Dept. Mycobac. Ref. Res., RIT, JATA., [2]NIPS, [3]Univ. Tsukuba, [4]Tezukayama Univ., [5]Hokkaido Univ. Science)

ODP-038

Effect of electrical stimulation on synthesis of bacterial biofilm on a metal

○Hiroyuki Taira[1], Minoru Yaga[2], Tetsu Yamashiro[3] ([1]Dept. Orthop., Sch. Med., Univ. Ryukyus, [2]Dept. Mech. Sys. Engr., Fuc. Engr., Univ. Ryukyus, [3]Dept. Bacteriol., Sch. Med., Univ. Ryukyus)

ODP-039

Localization of DPPs and dipeptide transporter Pot in *Porphyromonas gingivalis* defined by IEM

○Yu Shimoyama[1], Yuko Ohara-Nemoto[2], Takayuki K Nemoto[2], Taichi Ishikawa[1], Daisuke Sasaki[3], Yoshitoyo Kodama[1], Shigenobu Kimura[4], Minoru Sasaki[1] ([1]Dept. Microbiol., Div. Mol. Microbiol., Iwate Med. Univ., [2]Dept. Oral Mol. Biol., Course Med. Dent. Sci., Nagasaki Univ. Grad. Sch.Biomed. Sci., [3]Dept. Conservative Dent., Div. Periodontol., Iwate Med. Univ., [4]Dept. Oral Hygiene, Kansai Women's College)

4 Molecular Microbiology
a. Genome, Plasmids, Horizontal Gene Transfer, Mobile Genetic Elements, and Evolution

ODP-040/WS6-1

Prophages in prophages: a mechanism to accumulate T3SS effector and *stx* genes in *E. coli*

○Keiji Nakamura[1], Yoshitoshi Ogura[2], Yasuhiro Gotoh[1], Tetsuya Hayashi[1] ([1]Dept. Bacteriol., Fac. Med. Sci., Kyushu Univ., [2]Dept. Infect. Med., Kurume Univ. Sch. Med.)

ODP-041

Novel *tra*/*mob* operon for CA-MRSA plasmid's extremely high conjugative transfer/mobilization system

○Tsai Wen Wan[1,2], Lee Jene Teng[2], Tatsuo Yamamoto[1] ([1]Dept. Epidemiol. Genomics Evol., Intl. Med. Edu. Res. Center, [2]Dept. Clin. Lab. Sci. Med. Biotechnol., National Taiwan Univ.)

ODP-042

Genomic diversity of EHEC O157 clade 8 and variation in the Stx2 and Stx2 phage subtypes

○Tatsuya Miyata[1,2], Yoshitoshi Ogura[1,3], Keiji Nakamura[1], Yasuhiro Gotoh[1], Dai Yoshimura[4], Sunao Iyoda[5], Takehiko Itoh[4], Makoto Ohnishi[5], Tetsuya Hayashi[1] ([1]Dept. Bacteriol. Fac. Med. Sci, Kyushu Univ., [2]Dept. Pediatr. Fac. Med. Sci, Kyushu Univ., [3]Dept. Infect. Med., Kurume Univ. Sch. Med., [4]Sch. Life Sci & Tech, Tokyo Tech, [5]Dept. Bacteriol. I, NIID)

ODP-043

Genomic diversity and dynamics of Stx phages in EHEC O26:H11

○Bungo Yano[1], Keiji Nakamura[1], Itsuki Taniguchi[1], Yasuhiro Gotoh[1], Yoshitoshi Ogura[2], Tetsuya Hayashi[1] ([1]Dept. Bacteriol., Fac. Med. Sci., Kyushu Univ., [2]Dept. Infect. Med., Kurume Univ. Sch. Med.)

ODP-044

Phylogenic analysis of antimicrobial resistance plasmids by Bird's-eye mapping with Python

○Yusuke Tsuda[1], Jun-ichi Wachino[1], Kouji Kimura[1], Yoshichika Arakawa[1,2] ([1]Dept. Bacteriol., Grad. Sch. Med., Nagoya Univ., [2]Dept. Med. Tech., Shubun Univ.)

ODP-045

Evolution of quorum sensing of *Ralstonia solanacearum*

○Chika Takemura[1], Wakana Senuma[1], Akinori Kiba[1], Kouhei Ohnishi[1], Kenji Kai[2], Yasufumi Hikichi[1] ([1]Fac. Agri. & Marine Sci., Kochi Univ., [2]Sch. Life & Environmental Sci., Osaka Pre Univ.)

ODP-046

Genome analysis of "*Candidatus* Rickettsia longicornii" revealed unique mobile genetic elements

○Kentaro Kasama[1], Yasuhiro Gotoh[1], Hiromi Fujita[2], Seigo Yamamoto[3], Yoshitoshi Ogura[4], Shuji Ando[5], Tetsuya Hayashi[1] ([1]Dept. Bacteriol., Facl. Med., Kyushu Univ., [2]Mahara acari Med. Lab., [3](Former) Miyazaki Pref. Inst. for Pub. Health and Environment, [4]Div. Microbiol., Dept. Infectious Med., Kurume Univ., [5]NIID)

ODP-047

Genetic analysis on the pathogenicity of *flaA* of *Aeromonas* spp.

○Kazufumi Miyagi, Itaru Hirai (Lab. Microbiol., Sch. Health Sci., Fac. Med., Univ. of the Ryukyus)

ODP-048/WS6-3

***Helicobacter cinaedi* is a human-specific lineage in the *H. cinaedi* complex**

○Yasuhiro Gotoh[1], Takako Taniguchi[2], Keiji Nakamura[1], Naoaki Misawa[2], Tetsuya Hayashi[1] ([1]Dept. Bacteriol., Fact. Medical Sci., Kyushu Univ., [2]Dept. Vet Med Sci., Fact. Agric., Miyazaki Univ.)

ODP-049

Retron structure of *Vibrio mimicus* and possibility of horizontal gene transfer

Toshi Shimamoto[1], Yojiro Ishida[2], Hirofumi Nariya[3], ○Tadashi Shimamoto[1] ([1]Food Microbiol. Hygiene, Grad. Sch. Integrated Sci. Life, Hiroshima Univ., [2]St. Jude Chilren's Res. Hosp., [3]Fac. Human Life, Jumonji Univ.)

ODP-050

Comparative genomic analyses of *Helicobacter cinaedi* and its close relatives *Helicobacter* spp.

○Junko Tomida[1], Ryo Kutsuna[1], Tohru Miyoshi-Akiyama[2], Yoshiaki Kawamura[1] ([1]Dept. Microbiol., Sch. Pharm., Aichi Gakuin Univ., [2]Pathogen Microbe. Lab., Nat. Center Global Health & Med.)

ODP-051

Genome analysis of hard tick-borne relapsing fever borreliae

○Ai Takano[1], Ranna Nakao[1], Kentaro Kasama[2], Yoshitoshi Ogura[3], Atsushi Toyoda[4], Tetsuya Hayashi[2], Ken Maeda[5] ([1]Dept. Vet. Med., Joint Fac. Vet. Med., Yamaguchi Univ., [2]Dept. Bact., Fac. Med. Sci., Kyushu Univ., [3]Dept. Infect. Med., Kurume Univ. Sch. Med., [4]Dept. Genom. Evol. Biol., Natl. Inst. Genetics, [5]Dept. Vet. Sci., Natl. Inst. Infect. Dis.)

ODP-052

Genomic diversification of *Streptococcus pyogenes* through type II DNA methyltransferase on prophage

○Atsushi Ota, Kyoko Yarimizu, So Fujiyoshi, Fumito Maruyama (Office of Academic Research and Industry-Government Collaboration, Academy of Hiroshima Univ.)

ODP-053

Genomic analysis of ST1/spa-t1784 type MRSA isolates which were prevalent in Kanto region

○Kohei Ogura[1], Tohru Miyoshi-Akiyama[2], Ken Kikuchi[3] ([1]Front. Sci. Init., Kanazawa Univ., [2]Pathog. Microb. Lab., Res. Inst., NCGM, [3]Dept. Infect. Dis. Tokyo Women's Med. Univ.)

4 Molecular Microbiology
b. Regulation of Gene Expression

ODP-054

PorA, a C-terminal domain-containing protein, impacts gene expression of the T9SS

○Hideharu Yukitake[1], Mikio Shoji[1], Keiko Sato[1], Yusuke Handa[2], Mariko Naito[1], Katsumi Imada[2], Koji Nakayama[1] ([1]Dep. Micro. Oral Infect., Grad. Sch. Bio. Sci., Nagasaki Univ., [2]Dep. Macromol. Sci., Grad. Sch. Sci., Osaka Univ.)

ODP-055

Post-transcriptional regulation by RodZ protein essential for rod shape of bacilli (2)

○Jiro Mitobe, Hideo Yonezawa, Tomoko Hanawa, Takako Osaki (Dept. Infect. Dis., Sch. Med. Kyorin Univ.)

ODP-056

Involvement of uncharacterized *ytfL* gene of *Salmonella* in polyamine tolerance

○Yumi Iwadate, Rouhallah Ramezanifard, Yekaterina A Golubeva, Luke A Fenlon, James M Slauch (Dept. Microbiology, Univ. of Illinois at Urbana-Champaign)

ODP-057/WS6-7

Analysis of regulatory mechanisms of novel Toxin-antitoxin systems found in EHEC O157 Sakai

○Shinya Ebihara, Rina Kojima, Hilo Yen, Toru Tobe (Dept. Clinic. Lab. Med. Sci., Grad. Sch. Med.,Osaka Univ.)

ODP-058

Functional analysis of small regulatory RNA encoded by Shiga toxin-converting phage

○Naoki Sudo[1], Marika Sasaki[1], Takuya Imafuku[1], Sunao Iyoda[2], Nobuhiko Okada[1] ([1]Lab. Microbiol., Sch. Pharm., Kitasato Univ., [2]Dept. Bacteriol., Natl. Inst. Infect. Dis.)

ODP-059

Regulation of sRNA1 expression by ArcA in *Vibrio alginolyticus*

○Takehiko Mima[1], Agus Eka Darwinata[2], Kazuyoshi Gotoh[1], Yumiko Yamamoto[1], Osamu Matsushita[1] ([1]Dept. Bacteriol., Okayama Univ. Grad. Sch. Med. Dent. Pharm. Sci., [2]Dept. Clin. Microbiol., Fac. Med., Udayana Univ., Indonesia)

ODP-060/WS6-8

Regulation of sRNA1 expression by Lrp in *Vibrio alginolyticus*

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

4 Molecular Microbiology
c. Protein Structure and Function

ODP-061

Novel carbohydrate binding mechanism of proteins secreted by the T9SS in periodontal pathogens

○Mikio Shoji[1], Paul D. Veith[2], Koji Nakayama[1], Eric C. Reynolds[2], Mariko Naito[1] ([1]Dep. Micro. Oral Infect., Grad. Sch. Bio. Sci., Nagasaki Univ., [2]Oral Health Coop. Res. Cent., Mel. Dent. Sch., Mel. Univ.)

ODP-062/WS6-4

Functional hierarchy of JDP in biofilm formation and thermal adaptation of *E. coli*

○Shinya Sugimoto[1], Kunitoshi Yamanaka[2], Tatsuya Niwa[3], Yurika Terasawa[1], Yoshimitsu Mizunoe[1], Teru Ogura[2], Yuki Kinjo[1] ([1]Dept. Bacteriol., Jikei Univ. Schol. Med., [2]IMEG, Kumamoto Univ., [3]Cell Biol. Cent., Tokyo Inst. Technol.)

ODP-063/WS6-6
Structure-based investigation of hyaluronidase activity in *Streptococcus pyogenes*
◯Kotaro Higashi[1,2], Masaya Yamaguchi[1], Masanobu Nakata[1,3], Katsuki Takebe[4], Tomoko Sumitomo[1], Mamoru Suzuki[5], Shigetada Kawabata[1] ([1]Dept. Oral Microbiol., Grad. Sch. Dent., Osaka Univ., [2]Dept. Prosthodont. Gerodontol. Oral Rehabil., Grad. Sch. Dent., Osaka Univ., [3]Dept. Oral Microbiol., Grad. Sch. Med. & Dent. Sci., Kagoshima Univ., [4]Dept. Oral Maxillofacial Surg. II, Grad. Sch. Dent., Osaka Univ., [5]Inst. Protein Res., Osaka Univ.)

ODP-064
Magnetosomal protein MamJ regulates polymerization of MamK cytoskeleton for magnetosome positioning
◯Takumi Saito[1], Yousuke Kikuchi[2], Yoshihiro Fukumori[3], Azuma Taoka[2,3] ([1]Grad. Sch. Natural Science and Technology, Kanazawa Univ., [2]Institute of Science and Engineering, Kanazawa Univ., [3]WPI-NanoLSI, Kanazawa Univ.)

ODP-065
A small structural change of FliM induces rotational direction change of bacterial flagellar motor
Norihiro Takekawa[1], Tatsuro Nishikino[2], Toshiki Yamashita[1], Kiyoshiro Hori[3], Yasuhiro Onoue[4], Kunio Ihara[5], Seiji Kojima[3], Katsumi Imada[1], ◯Michio Homma[3] ([1]Dep. Macromol. Sci., Osaka Univ., [2]Inst. Protein Res., Osaka Univ., [3]Div. Biol. Sci., Grad. Sch. Sci., Nagoya Univ., [4]College Life Sci., Ritsumeikan Univ., [5]Center Gene Res., Nagoya Univ.)

ODP-066
Characterization of TsaA/TsaT TA system in *Staphylococcus aureus*
◯Fuminori Kato (Grad. Sch., Biomed. Heal. Sci., Hiroshima Univ.)

ODP-067
Structural basis of bacterial actin MreB involved in *Spiroplasma* swimming
◯Daichi Takahashi[1], Ikuko Fujiwara[1,2], Katsumi Imada[3], Makoto Miyata[1,2] ([1]Grad. Sch. Sci., Osaka City Univ., [2]OCARINA, Osaka City Univ., [3]Grad. Sch. Sci., Osaka Univ.)

4 Molecular Microbiology
d. Secretion and Transport

ODP-068
MRSA-derived membrane vesicles act as an IgE-mediated stimulant to induce hypersensitivity
◯Krisana Asano[1,2], Shouhei Hirose[1], Kouji Narita[1,3], Akio Nakane[2,4] ([1]Dept. Microbiol. Immunol., Hirosaki Univ. Grad. Sch. Med., [2]Dept. Biopolym. Health Sci., Hirosaki Univ. Grad. Sch. Med., [3]Inst. Anim. Exp., Hirosaki Univ. Grad. Sch. Med., [4]Hirosaki Univ. Health Welf.)

4 Molecular Microbiology
e. Intra- and Inter-cellular Signal Transduction

ODP-069
Strategies used by *Leptospira interrogans* to disassemble the epithelial apical junctional complex
Isabel Sebastián[1], Nobuhiko Okura[2], Bruno M. Humbel[3], Jun Xu[1], Malgorzata Hall[3], Chitoshi Takayama[2], Tetsu Yamashiro[1], Shuichi Nakamura[4], ◯Claudia Toma[1] ([1]Dept. Bacteriol., Grad. Sch. Med., Univ. of the Ryukyus, [2]Dept. Mol. Anatomy, Grad. Sch. Med., Univ. of the Ryukyus, [3]Imaging Section,OIST, [4]Applied Physics, Grad. Sch. Eng., Tohoku Univ.)

ODP-070
Purification of membrane vesicles from Gram-positive bacteria using flow cytometry
◯Tadahiro Nasukawa[1], Ryosuke Sugimoto[1], Jumpei Uchiyama[1], Iyo Uchiyama[1], Hironobu Murakami[1], Ken Fukuda[2], Shigenobu Matsuzaki[2], Masahiro Sakaguchi[1] ([1]Sch. Vet. Med., Azabu Univ., [2]Sch. Med., Kochi Univ.)

ODP-071
Physical properties measurements of bacterial membrane vesicles bound in living cell surface
◯Yousuke Kikuchi[1], Yuuki Ichinaka[1], Masanori Toyofuku[2,3], Nozomu Obana[3,4], Nobuhiko Nomura[2,3], Azuma Taoka[1,5] ([1]Inst. of Sci. and Eng., Kanazawa Univ., [2]Life and Env. Sci., Tsukuba Univ., [3]Microbiol. Res. Ctr. Sustain., Tsukuba Univ., [4]Trans. Med. Res. Ctr., Tsukuba Univ., [5]WPI Nano Life Sci. Inst., Kanazawa Univ.)

ODP-072
The role of OMVs in biofilm formation by *Aeromonas* strain
◯Soshi Seike[1], Hidetomo Kobayashi[1], Eizo Takahashi[2], Keinosuke Okamoto[3], Hiroyasu Yamanaka[1] ([1]Lab. Mol. Microbiol. Sci., Fac. Pharm. Sci., Hiroshima International Univ., [2]Lab. of Med. Microbiol., Dept. Health Pharm., Yokohama Univ. of Pharm., [3]Collab. Res. Ctr. Okayama Univ.)

ODP-073
Quorum-sennsing-mediated heterogeneity in *Clostridium perfringens* biofilm
◯Tabushi Yoshihiko[1], Nozomu Obana[2,3], Nobuhiko Nomura[3,4] ([1]Grad Sch. Life Environ. Sci., Tsukuba Univ., [2]TRMC, Fac. Med., Tsukuba Univ., [3]MiCS, Tsukuba Univ. Fac., [4]Life Environ. Sci., Tsukuba Univ.)

ODP-074
Chemotaxis of an obligate anaerobic bacteria, *Clostridium sporogenes*
◯So-ichiro Nishiyama, Susumu Oogoshi, Shota Manabe, Hiroshi Urakami (Fac. App. Life Sci., Niigata Univ. Pharm. App. Life Sci.)

ODP-075

Contribution of p21-activated kinase PAK to hyphal growth in *Trichophyton rubrum*

◯Masaki Ishii[1,2], Shinya Ohata[1,2], Tsuyoshi Yamada[3], Hideko Uga[1,2], Toshiaki Katada[1,2] ([1]Mol. Cell Biol. Lab., Fac. Pharm., Musashino Univ., [2]Mol. Cell Biol. Lab., Res. Inst. Pharm. Sci., Musashino Univ., [3]Inst. Med. Mycol., Teikyo Univ.)

4 Molecular Microbiology
f. Microbial Metabolism

ODP-076

Functional analysis of isoprenyl diphosphate synthases from mycobacteria

◯Tohru Abe, Sadamu Ozaki, Daijiro Ueda, Tsutomu Sato (Grad. Sch. Sci. Technol., Niigata Univ.)

ODP-077

Longevity regulation by reactive sulfur species in yeast

◯Minkyung Jung[1], Akira Nishimura[2], Tomoaki Ida[1], Masanobu Morita[1], Tetsuro Matsunaga[1], Hiroshi Takagi[2], Hozumi Motohashi[3], Takaaki Akaike[1] ([1]Dept. Environmental Medicine and Molecular Toxicology, Tohoku Univ. Grad. Sch. Medicine, [2]Laboratory of Applied Stress Microbiology, Div. Biological Science, Nara Institute of Science and Technology, [3]Dept. Gene Expression Regulation, IDAC, Tohoku Univ.)

ODP-078/WS6-5

Longevity is dependent on sulfide:quinone oxidoreductase mediated energy metabolism in fission yeast

◯Masanobu Morita[1], Akira Nishimura[2], Tomoaki Ida[1], Minkyung Jung[1], Tetsuro Matsunaga[1], Tsuyoshi Takata[1], Hozumi Motohashi[3], Takaaki Akaike[1] ([1]Dept. Environ. Med. Mol. Toxicol., Tohoku Univ. Grad. Sch. Med., [2]Grad. Sch. Biol. Sci., NAIST, [3]Dept. Gene Expression Regulation, IDAC, Tohoku Univ.)

ODP-079

The emergence of novobiocin-resistant mutants in actinomycetes and their characteristics

◯Nanase Takaba[1,2], Kanata Hoshino[2,3], Ryoko Hamauzu[2], Takeshi Hosaka[1,2,3] ([1]Fac. of Agric. Shinshu Univ., [2]IBS-ICCER, Shinshu Univ., [3]Grad. Sch. of Med. Sci. and Technol. Shinshu Univ.)

ODP-080

Discovery of reactive sulfur biosynthesis pathway mediated by aminoacyl-tRNA synthetase in bacteria

◯Tomoaki Ida[1], Minkyung Jung[1], Tetsuro Matsunaga[1], Akira Nishimura[2], Masanobu Morita[1], Tsuyoshi Takata[1], Hozumi Motohashi[3], Takaaki Akaike[1] ([1]Dept. Environ. Med. Mol. Toxicol., Tohoku Univ. Grad. Sch. Med., [2]Div. Biol. Sci, NAIST., [3]Dept. Gene Exp. Regulation, IDAC, Tohoku Univ.)

ODP-081

The dose-dependent positive effects of lincomycin on secondary metabolism in streptomycetes

◯Keiichiro Mukai[1,4], Misaki Ishizuka[2,4], Yu Imai[3], Momoko Kobayashi[2,4], Kanata Hoshino[1,4], Takeshi Hosaka[1,2,4] ([1]Grad. Sch. of Med. Sci. and Technol., Shinshu Univ., [2]Grad. Sch. Sci. and Technol., Shinshu Univ., [3]Northeastern Univ., [4]IBS-ICCER, Shinshu Univ.)

4 Molecular Microbiology
g. Omics, and Bioinformatics

ODP-082/WS6-2

Single-cell level analysis of strain-level microbial diversity in human skin microbiome

◯Tatsuya Saeki[1,2], Koji Arikawa[1,2], Takuya Yoda[1,2], Taruho Endoh[1], Keigo Ide[3,4], Masato Kogawa[3,4], Haruko Takeyama[2,3,4,5], Masahito Hosokawa[1,2,5] ([1]bitBiome, Inc., [2]Research Organization for Nano and Life Innovation, Waseda Univ., [3]Dept. Life Science and Medical Bioscience, Waseda Univ., [4]Computational Bio Big-Data Open Innovation Laboratory, AIST-Waseda Univ., [5]Institute for Advanced Research of Biosystem Dynamics, Waseda Research Institute for Science and Engineering, Waseda Univ.)

ODP-083

Within-host diversity of pathogens in bacteremia based on metagenomic and deep-sequencing approach

◯Taiki Sonoda[1], Yasuhiro Gotoh[2], Ruriko Nishida[2,3], Nobuyuki Shimono[4], Keiji Nakamura[2], Tetsuya Hayashi[2] ([1]Dept. Biomed. Sci., Fact. Med., Kyushu Univ., [2]Dept. Bact., Grad. Sch. Med. Sci., Kyushu Univ., [3]Dept. Clin. Chem. Lab. Med., Kyushu Univ. Hosp., [4]Center Study Global Infect., Kyushu Univ. Hosp.)

ODP-084

Development of a qRT-PCR method of fecal bacteria responsible for transformation of bile acids

◯Satoshi Yuhara, Yuma Oka, Yuki Kawasaki, Kosei Tanaka, Koichiro Murashima, Kazuya Omi (H.U. group Reserch Inst.)

ODP-085

Development of a highly specific and quantitative qPCR panel for monitoring of microbiome

◯Takeru Nakabayashi, Satoshi Yuhara, Koichiro Murashima, Kazuya Omi (H.U. group Research Inst.)

4 Molecular Microbiology
h. Others

ODP-086

YecE is an endogenous inhibitor of cytoskeleton protein FtsZ in *Escherichia coli*

◯Nozomi Shimamoto, Yoshihiro Yamaguchi (Grad. Sch. Sci., Osaka City Univ.)

5 Pathogens and Infectious Diseases (including Epidemiology) a. Isolation and Characterization of Clinical Microbes

ODP-087

A family case of CA-MRSA infection with USA300 clone

◯Mariko Sugawara Mikami[1], Hiroshi Kaneko[2], Hidemasa Nakaminami[2] ([1]West Yokohama Sugawara Dermatology Clinic, [2]Dept. Microbiology, Sch. Pharmacy, Tokyo Univ. of Pharmacy and Life Sciences)

ODP-088

Whole-genome sequencing of EHEC OX18 from a fatal HUS case and other EHEC OX18 isolates

◯Ken-ichi Lee[1], Atushi Iguchi[2], Kazuhiro Uda[3], Soushi Matsumura[3], Isao Miyairi[3], Kenji Ishikura[3], Makoto Ohnishi[1], Sunao Iyoda[1], EHEC Working Group in Japan[4] ([1]Dept. Bacteriol. 1, Natl. Inst. Infect. Dis., [2]Dept. Agriculture, Univ. Miyazaki, [3]National Center for Child Health and Development, [4]Local Public Health Institutes)

ODP-089

***Staphylococcus aureus* silence accessory gene regulator to be persistent and competent in hospital**

◯Yuriko Yamazaki[1], Mari Tanaka[2], Yoko Kusuya[3], Reika Aoyama[2], Yoshiteru Osone[4], Hiroki Takahashi[3], Yuumi Nakamura[2], Akiko Takaya[5] ([1]Dept. Dermatology, Chiba Univ. Grad. Sch. Medicine, [2]Dept. Dermatology, Osaka Univ. Grad. Sch. Medicine, [3]Medical Mycology Research Center, Chiba Univ., [4]Dept. Pediatrics, Chiba Univ. Grad. Sch. Medicine, Chiba, [5]Dept. Natural Products Chemistry, Grad. Sch. Pharmaceutical Sciences)

ODP-090/WS9-7

Molecular epidemiology of enterohemorrhagic *Escherichia coli* from asymptomatic carriers

◯Rina Takahashi[1], Yutaka Uzawa[1], Shigekazu Iguchi[1], Koichi Uno[2], Akio Noguchi[2], Hiroshi Kaneko[2], Toshio Sato[2], Ken Kikuchi[1] ([1]Dept. Infectious Diseases, Tokyo Women's Medical Univ., [2]Japan Biosceinces Co., Ltd.)

ODP-091

The characteristics in drug resistance and biofilm production of clinically isolated MRSA

◯Nanako Masuda[1], Narumi Wakasa[1], Yuta Miyake[1], Yoichi Yamada[1], Noriko Okabe[1], Yoriyuki Taira[2], Tomoko Wada[2], Tetsuhiro Sugiyama[2], Sumiko Shiota[1] ([1]Dept. Molecular Biology, Sch. Pharm., Shujitsu Univ., [2]Dept. Pharm., Tsuyama Chuo Hospital)

5 Pathogens and Infectious Diseases (including Epidemiology) b. Methods in Detection and Identification of Clinical Microbes

ODP-092

Optimization of synthesis conditions for antimicrobial capsid applicable to bacterial gene detection

◯Yutaro Nishikawa[1,2], Kotaro Kiga[2], Shinya Watanabe[2], XinEe Tan[2], Takako Suzuki[1], Takayuki Simojo[1], Longzhu Cui[2] ([1]EIKEN CHEMICAL CO.,LTD, [2]Div. Bacteriology, Dept. Infection and Immunity, Sch. Medicine, Jichi Medical Univ.)

ODP-093

Evaluation of IgG levels to 12 antigens in a *Mycobacterium tuberculosis*-infected Asian elephant

◯Satoshi Ishikawa[1,2], Erina Inouchi[1], Satomi Suga[2], Yasuhiko Mukai[2], Haruka Kobayashi[1], Yuriko Ozeki[1], Akihito Nishiyama[1], Yoshitaka Tateishi[1], Sohkichi Matsumoto[1] ([1]Dep. Bacteriol., Niigata Univ. Med., [2]Fukuyama Zoo)

ODP-094

Detection of botulinum neurotoxins in Japanese samples by Endopep-MS assay

◯Chie Monma[1], Satomi Uehara[1], Chikako Asayama[1], Wakaba Okada[1], Jun Suzuki[1], Kenji Sadamasu[1], Tomoko Kohda[2], Masafumi Mukamoto[2], Suzanne R Kalb[3] ([1]Dept. Microbiol., Tokyo Metropolitan Inst. Pub. Health, [2]Dept. Vet. Sci., Grad. Sch. Life Environ. Sci., Osaka Pref. Univ., [3]CDC)

ODP-095

Automating bacteriological tests – microscopic agglutination test for leptospirosis as an example

◯Ryo Ozuru[1], Yuji Oyamada[2], Toshiyuki Masuzawa[3], Satoshi Miyahara[4], Yasuhiko Nikaido[4], Mitsumasa Saito[4], Sharon Y. A. M. Villanueva[5], Jun Fujii[1] ([1]Div. Bacteriol., Dept. Microbiol. Immunol., Faculty of Med., Tottori Univ., [2]Dept. EECS, Fac. Eng., Tottori Univ., [3]Lab. Microbiol. Immunol., Fac. Pharm. Sci., Chiba Ins. Sci., [4]Dept. Microbiol., Sch. Med., Univ. of Occupational and Environmental Health, [5]Dept. Med. Microbiol., Col. Pub. Health, Univ. the Philippines Manila)

ODP-096

Identification of *Tsukamurella inchonensis* isolated from septic pulmonary emboli (SPE) patient

◯I Putu Bayu Mayura[1], Kazuyoshi Gotoh[1], Takehiko Mima[1], Yumiko Yamamoto[1], Kenji Yokota[2], Osamu Matsushita[1], Hideharu Hagiya[3] ([1]Dept. Bacteriol., Grad Sch Med, Dent and Pharm Sci., Okayama Univ, [2]Grad. Sch. Health Sci., Okayama Univ., [3]Dept. Gen Med, Grad Sch Med, Dent and Pharm Sci., Okayama Univ)

5 Pathogens and Infectious Diseases (including Epidemiology) c. Prevention of Infection (Vaccinization and Other Methods)

ODP-097

The anti-Helicobacter pylori colonization effect of serum and monoclonal antibody in the mice stomach

◯Subsomwong Phawinee[1,2], Ryota Otsubo[1,3], Hitomi Mimuro[1] ([1]Dept. Infect. Dis., RIMD, Osaka Univ., [2]Dept. Microbiol. Immunol., Hirosaki Univ. Grad. Sch. Med., [3]Toyama Pref. Inst. Pharm. Res., Toyama Univ.)

ODP-098/WS9-2

Host immune induction via membrane vesicles produced by *Clostridium perfringens*

◯Mayu Okuda[1], Nozomu Obana[2], Hibiki Okuwaki[1], Ryoma Nakao[3], Hidenobu Senpuku[3], Nobuhiko Nomura[4] ([1]Grad. Life Environ. Sci., Univ. Tsukuba, [2]TMRC, Fac. Medicine, Univ. Tsukuba, [3]Dept. Bacteriol I., NIID., [4]Fac. Life Environ. Sci., Univ. Tsukuba)

5 Pathogens and Infectious Diseases (including Epidemiology) d. Epidemiology, and Molecular Epidemiology

ODP-099/WS9-5

Investigation of pathogenic mechanism of invasive infection caused by *emm* 89 *Streptococcus pyogenes*

◯Masayuki Ono[1,2], Masaya Yamaguchi[1], Yujiro Hirose[1], Kotaro Higashi[1,3], Norihiko Takemoto[4], Tohru Miyoshi-Akiyama[4], Tomoko Sumitomo[1], Tadayoshi Ikebe[5], Shigetada Kawabata[1] ([1]Dept. Oral Mol. Microbiol., Osaka Univ. Grad. Sch. Dent., [2]Dept. Fixed Prothodont., Osaka Univ. Grad. Sch. Dent., [3]Dept. Prothodont. Gerodontol. Oral Rehabil., Osaka Univ. Grad. Sch. Dent., [4]Pathogenic Microbe Lab., Dept. Infectious Diseases, NCGM, [5]Dept. Bacteriol. I, Natl. Inst. Infect. Dis.)

ODP-100/WS9-8

Global Genome Epidemiology Database (gGENEPID) for pathogenic bacteria

◯Makoto Kuroda, Tsuyoshi Sekizuka, Kentaro Itokawa, Koji Yatsu (Pathogen Genomics Center, NIID)

ODP-101

Molecular epidemiology of *Staphylococcus argenteus* clinical isolates in Hokkaido, Northern Japan

◯Meijisoe Aung, Noriko Urushibara, Mitsuyo Kawaguchiya, Nobumichi Kobayashi (Dept. Hygiene, Sch. Med., Sapporo Med. Univ.)

ODP-102

Genetic analysis of the type VII secretion system of *Streptococcus intermedius*

◯Toshifumi Tomoyasu, Atsushi Tabata, Hideaki Nagamune (Div. Biosci. & Bioindust., Grad. Sch. Tech., Indust. & Soc. Sci., Tokushima Univ.)

ODP-103

Antimicrobial resistance of Neisseria gonorrhoeae isolated in Okinawa

◯Hiroshi Nakao[1], Akiko Uehara[1], Toshiaki Nakada[2], Tominobu Takara[2], Shu-ichi Nakayama[3], Ken Shimuta[3], Makoto Ohnishi[3] ([1]Lab. Molec. Genetics, Sch. Health Sci., Univ. Ryukyus, [2]Lifestyle Related Dis. Med. Ctr., Naha City Med. Assoc., [3]Dept. Bacteriol. 1, Natl. Inst. Infect. Dis.)

ODP-104

Genetic profiling and pan-genome analysis of pneumococcal strains isolated in Myanmar

◯Masaya Yamaguchi[1], Hpoo Pwint Myo Win[2], Masayuki Ono[1], Kotaro Higashi[1], Yujiro Hirose[1], Mya Mya Aye[2], Moh Moh Htun[2], Hlaing Myat Thu[2], Shigetada Kawabata[1] ([1]Dept. Oral Mol. Microbiol., Osaka Univ. Grad. Sch. Dent., [2]Bacteriol. Res. Div., Dept. Med. Res., Min. Health Sports.)

ODP-105

Survey of *Escherichia albertii* in wild birds in Japan

◯Atsushi Hinenoya[1,2,3], Sharda Prasad Awasthi[1], Noritomo Yasuda[1], Keigo Nagano[2], Jayedul Hassan[1], Keiji Takehira[1], Noritoshi Hatanaka[1], Haruna Inoue[4], Shinji Yamasaki[1,2,3] ([1]Dept. Vet. Sci., Grad. Sch. Life Environ. Sci., Osaka Pref. Univ., [2]Fac. Vet. Sci., Sch. Life Environ. Sci., Osaka Pref. Univ., [3]AHSI, Osaka Pref. Univ., [4]Wanpark Kochi Animal Land)

ODP-106

Molecular epidemiological analysis of MRSA in the Kanto region

◯Daiki Kaji[1,2], Masakazu Sasaki[3], Yoshihito Otsuka[4], Ken Kikuchi[5] ([1]Dept. Clin. Lab., Kimitsu Chuo Hosp., [2]Div. Infect. Prevention and Control, Tokyo Healthcare Univ. Postgraduate Sch., [3]Dept. Clin. Lab., Toho Univ. Med. Ctr. Omori Hosp., [4]Dept. Clin. Lab., Kameda Med. Ctr., [5]Dept. Infect. Dis., Tokyo Women's Med. Univ. Hosp.)

ODP-107

Whole genome analysis of *Staphylococcus aureus* ST9 strains isolated in Myanmar

◯Noriko Urushibara, Meijisoe Aung, Mitsuyo Kawaguchiya, Nobumichi Kobayashi (Dept. Hygiene, Sch. Med., Sapporo Med. Univ.)

ODP-108

Local spread of VRE ascribed to the interspecies transmission of a *vanA*-carrying linear plasmid

○Yusuke Hashimoto[1], Masato Suzuki[3], Takahiro Nomura[1], Jun Kurushima[1], Hidetada Hirakawa[1], Koichi Tanimoto[2], Haruyoshi Tomita[1,2] ([1]Dept. Bacteriol., Grad. Sch. Med., Gunma Univ., [2]Lab. Bacteriol. Drug Resist., Grad. Sch. Med., Gunma Univ., [3]Antimicrobial Resistance Research Center, National Institute of Infectious Diseases)

5 Pathogens and Infectious Diseases (including Epidemiology) e. Others

ODP-109

Novel method to detect resistant bacteria by observing the morphological change using a tabletop SEM

○Erino Matsumoto[1], Akiko Hisada[1], Ryo Hirano[2], Yuusuke Oominami[2], Jacques Bou Khalil[3], Kyoko Imai[2], Takashi Irie[2], Toshihide Agemura[2], Didier Raoult[3] ([1]R&D Group, Hitachi, Ltd., [2]Hitachi High-Tech Corp., [3]Institut Hospitalo-Universitaire Méditerranée Infection)

ODP-110/WS9-6

bGWAS reveals putative bacterial factors that affect pathological outcomes of MAC lung disease

○Hirokazu Yano[1], Yukiko Nishiuchi[2], Kentaro Arikawa[3], Atsushi Ota[4], Mari Miki[5], Fumito Maruyama[4], Hiroshi Kida[5], Seigo Kitada[5], Tomotada Iwamoto[3] ([1]Grad. Sch. Life Sciences, Tohoku Univ., [2]Grad Sch. Medicine, Osaka City Univ., [3]Kobe Institute of Health, [4]Center for Holobiome and Built Environment (CHOBE), Hiroshima Univ., [5]National Hospital Organization Osaka Toneyama Medical Center)

ODP-111

Empirical studies on usability of Lactobacillus against biofilm-related urinary tract infections

○Reiko Kariyama[1,2], Ritsuko Mitsuhata[1], Masumi Yamamoto[1], Takuya Sadahira[1], Koichiro Wada[1], Ayano Ishii[1], Toyohiko Watanabe[1], Yasutomo Nasu[1] ([1]Dept. Urol., Grad. Sch. Med. Dent. Pharm. Sci., Okayama Univ., [2]Sch. Food Nutr., Okayama Gakuin Univ.)

ODP-112

Interfering effect of wound exudates on 222 nm-UVC light protects fibroblast in dermal damaged site

○Kouji Narita[1,2], Yukihiro Morimoto[3,4,5], Hiroyuki Ohashi[4], Tatsushi Igarashi[4], Krisana Asano[2,3], Akio Nakane[3] ([1]Inst. for Animal Exp., Hirosaki Univ. Grad. Sch. of Med., [2]Dept. Microbiol. and Immunol., Hirosaki Univ. Grad. Sch. Med., [3]Dept. Biopolymer and Health Sci., Hirosaki Univ. Grad. Sch. Med., [4]Ushio Inc., [5]Inst. of Scientific and Industrial Res., Osaka Univ.)

6 Virulence Factors and Biophylaxis a. Adhesion Factors, and Colonization Factors

ODP-113

Inhibition of the interaction between fibronectin and dermatopontin by *Clostridium perfringens* Fbps

○Seira Egusa[1], Nozomu Matsunaga[1], Nodoka Narukawa[1], Tsutomu Yamasaki[2], Ryousuke Akamatsu[1], Seiichi Katayama[1], Yasuo Hitsumoto[1] ([1]Dept. Life Science, Fac. Science, Okayama Univ. of Science, [2]Pharmaceutical Department, Shujitsu Univ.)

ODP-114

Purification of cell wall-anchored proteins of *Streptococcus intermedius*

○Ayu Ichijo[1], Toshifumi Tomoyasu[1,2], Atsushi Tabata[1,2], Hideaki Nagamune[1,2] ([1]Div. Bioresour. Sci., Grad. Sch. Sci. & Tech. for Innov., Tokushima Univ., [2]Div. Biosci. & Bioindust., Grad. Sch. Tech., Indust. & Soc. Sci., Tokushima Univ.)

ODP-115

Dual host cell-binding characteristics of 5-domain-type CDC with N-terminal extra-domain of *S. mitis*

○Takuya Ikeda[1], Atsushi Tabata[1,2], Toshifumi Tomoyasu[1,2], Ayuko Takao[3], Hisashi Okuni[4], Hideaki Nagamune[1,2] ([1]Div. Bioresour. Sci., Grad. Sch. Sci. & Tech. for Innov., Tokushima Univ., [2]Div. Biosci. & Bioindust., Grad. Sch. Tech., Indust. & Soc. Sci., Tokushima Univ., [3]Dept. Oral Bacteriol., Tsurumi Univ., [4]Health Sci. Res. Inst. East Japan Co. Ltd.)

ODP-116

***Aggregatibacter actinomycetemcomitans* enhances coaggregation by serum-culturing**

○Yuichi Oogai[1], Ayumi Fujita[2], Masanobu Nakata[1], Hitoshi Komatsuzawa[3] ([1]Dept. Oral Microbiol., Grad. Sch. Med. and Dent., Kagoshima Univ., [2]Dept. Periodontol., Grad. Sch. Med. and Dent., Kagoshima Univ., [3]Dept. Bacteriol., Grad. Sch., Biomedical and Health Sch., Hiroshima Univ.)

ODP-117

Molecular characteristics and the peptidoglycanase activity of *Clostridium perfringens*-derived autolysin, Acp

○Riyo Aono[1], Nozomu Matsunaga[1], Eiji Tamai[2], Seiichi Katayama[1], Yasuo Hitsumoto[1] ([1]Dept. Life Sci., Fac. Sci., Okayama Univ. Science, [2]Dept. Infect. Dis., Coll. Pharm., Matsuyama Univ.)

ODP-118

Characterization of extracellular RNA in *Staphylococcus aureus* biofilm

○Akio Chiba[1,2], Amu Baba[1], Shinya Sugimoto[1,2], Yuki Kinjo[1,2] ([1]Dept. Bacteriol., Sch. Med., Jikei Univ., [2]Center for Biofilm, Jikei Univ.)

ODP-119

Effect of organic acid from oral bacteria on initial attachment and colonization of *Actinomyces oris*

○Itaru Suzuki[1,2], Takehiko Shimizu[2], Hidenobu Senpuku[1] ([1]Dept. Bacteriol. I, Natl. Inst. Infect. Dis., [2]Dept. Pediatric Dent. Nihon Univ. Sch. Dent. at Matsudo)

ODP-120

Function of the autolysin of *Clostridium perfringens*

○Shogo Emi[1], Riyo Aono[1], Nozomu Matsunaga[2], Hirofumi Nariya[3], Eiji Tamai[4], Yasuo Hitsumoto[2], Seiichi Katayama[2] ([1]Dept. Life Sci., Grad. Sch. Sci., Okayama Univ. Sci., [2]Dept. Life Sci., Fac. Sci., Okayama Univ. Sci., [3]Dept. Food Sci., Fac. Human Life., Jumonji Univ., [4]Dept. Infect. Dis., Coll. Pharm., Matsuyama Univ.)

6 Virulence Factors and Biophylaxis
b. Toxins, Effectors, and Bioactive Substances

ODP-121

***Clostridium perfringens* α-toxin inhibits myogenic differentiation of C2C12 cells**

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

ODP-122

Role of amino acid residues in the biological activities of *Clostridium perfringens* delta-toxin

○Masahiro Nagahama[1], Honoka Wada[1], Soshi Seike[2], Keiko Kobayashi[1], Masaya Takehara[1] ([1]Dept. Microbiol., Fac. Pharm. Sci., Tokushima Bunri Univ., [2]Lab. Mol. Microbiol. Sci., Fac. Pharm. Sci., Hiroshima International Univ.)

ODP-123

Cellular Uptake of *Clostridium botulinum* C2 Toxin Requires Protease Activity

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

ODP-124

Inhibition of LPS-induced inflammation by bioactive metabolites derived from deep-sea microorganisms

○Yinzhi Lin[1], Liyan Wang[2], Shiori Kojima[3], Naoki Koide[1], Kazuo Umezawa[4] ([1]Dept. Microbiol. Immunol., Sch. Med., Aichi Med. Univ., [2]College of Life Sciences and Oceanography, Shenzhen Univ., [3]Fukuyu Med. Instu., [4]Dept. Mol. Target, Sch. Med., Aichi Med. Univ.)

ODP-125

Analysis of IL-33-inducing activity of *Citrobacter koseri* in dendritic cells

○Hideo Kataoka, Taiki Mori, Takeshi Into (Dept. Oral Microbiology, Division of Oral Infection and Health Sciences, Asahi Univ. Sch. Dentistry)

ODP-126/WS7-8

Effect of O_2 availability on Stx1 and Stx2 productions in enterohemorrhagic *Escherichia coli*

○Takeshi Shimizu[1], Manami Onuki[1], Akio Matsumoto[2], Takeshi Hamahata[3] ([1]Dept. Molecular Infectiology, Grad. Sch. Medicine, Chiba Univ., [2]Dept. Aging Pharmacology, Sch. Medicine, Toho Univ., [3]Section of Bacterial Infection, Research Institute, National Center for Global Health and Medicine)

ODP-127/WS7-7

Optimization of culture conditions for type III secreted proteins production in *B. pertussis*

○Masataka Goto[1], Asaomi Kuwae[1], Tomoko Hanawa[2], Akio Abe[1] ([1]Lab. Bact. Infect., Grad. Sch. Infect. Cont. Sci., Kitasato Univ., [2]Dep. Infect. Dis., Kyorin Univ. Sch. Med.)

ODP-128

SubAB induces a novel form of Lipocalin 2, which involves in STEC survival

○Kinnosuke Yahiro[1], Kohei Ogura[2], Yoshiyuki Goto[3], Sunao Iyoda[4], Makoto Ohnishi[4] ([1]Dept. Molecular Infectiology, Grad. Sch. Medicine, Chiba Univ., [2]Advanced Health Care Science Research Unit, Institute for Frontier Science Initiative, Kanazawa Univ., [3]Div. Molecular Immunology, Medical Mycology Research Center, Chiba Univ., [4]Dept. Bacteriology I, National Institute of Infectious Diseases)

ODP-129

Involvement of *Streptococcus pyogenes*-released extracellular vesicles in the pathogenicity

○Kazunori Murase[1], Chihiro Aikawa[1], Takashi Nozawa[1], Ayako Nakatake[2], Taisei Kikuchi[3], Ichiro Nakagawa[1] ([1]Dept. Microbiol., Grad. Sch. Med., Kyoto Univ., [2]HTLV-1/ATL Res. Ctr., Fac. Med., Univ Miyazaki., [3]Dept. Infec. Dis., Fac. Med., Univ Miyazaki)

ODP-130

An anti-PFO monoclonal antibody cross-reactive with SLO protects against STSS

○Takayuki Matsumura[1], Ayae Nishiyama[1], Akira Ainai[2], Tadayoshi Ikebe[3], Joe Chiba[2], Manabu Ato[4], Yoshimasa Takahashi[1] ([1]Dept. Immunol., Natl. Inst. Infect. Dis., [2]Dept. Pathol., Natl. Inst. Infect. Dis., [3]Dept. Bacteriol. I, Natl. Inst. Infect. Dis., [4]Dept. Mycobacteriol., Lepr. Res. Ctr., Natl. Inst. Infect. Dis.)

ODP-131/WS7-5

***E. coli*-derived CirA induces the pro-inflammatory factors via extracellular vesicles**

○Risa Imamiya[1], Mayuko Osada-Oka[2], Akari Shinohara[1], Yasuhiko Horiguchi[3] ([1]Food Hyg. Health., Life Env., Kyoto Pref. Univ., [2]Food Hyg. Env. Health., Grad. Sch. Life Env. Sci., Kyoto Pref. Univ., [3]Dept. Mol. Bact., RIMD, Osaka Univ.)

ODP-132

Virulence factors in membrane vesicle of *Bordetella pertussis* planktonic and biofilm cultures

○Tomoko Hanawa[1], Kazunari Kamachi[2], Asaomi Kuwae[3], Akio Abe[3], Hideo Yonezawa[1], Takako Osaki[1], Fuhito Hojo[4], Shigeru Kamiya[1], Jiro Mitobe[1] ([1]Dept of Infect. Dis. Sch. Med., Kyorin Univ., [2]Dept. Bac. II Natl Inst. of Infec. Dis., [3]Lab. Bact. Infect., Grad. Sch. Infect. Cont. Sci., Kitasato Univ., [4]Facit., Kyorin Univ. Sch. Med.)

ODP-133

Identification of a *Bartonella elizabethae*-derived angiogenic factor

○Natsumi Suzuki[1], Kayo Kumadaki[1,2], Yohei Doi[1], Kentaro Tsukamoto[1] ([1]Dept. Microbiol. Fujita Health Univ. Sch. Med., [2]Fujita Health Univ. Grad. Sch. Med.)

ODP-134

Shiga toxin receptor, globotriaosylceramide, Gb3 in olfaction

○Jun Fujii[1], Kazuya Nomura[2] ([1]Division of Bacteriology Dept. Microbiology and Immunology Fac. Medicine Tottori Univ., [2]Dept. Medical Biochemistry, Kurume Univ. Sch. Medicine)

ODP-135

Lipid A up-regulates caspase-11 expression via RIPK3 activation

○Riyoko Tamai, Izumi Mashima, Yusuke Kiyoura (Dept. Oral Med. Sci., Sch. Dent., Ohu Univ.)

ODP-136

Analysis of the functional domain of BopN, a type III effector produced by *Bordetella*

Saaya Kinoshita, ○Asaomi Kuwae, Akio Abe (Lab. Bact. Infect., Grad. Sch. Infect. Cont. Sci., Kitasato Univ.)

ODP-137/WS7-6

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

○Tomomi Kurane[1], Giichi Takaesu[1,2], Kazuko Sawada[2], Masayuki Umemura[1,2], Goro Matsuzaki[1,2] ([1]Dept. Host defense, Grad. Sch. Med., Univ. of the Ryukyus, [2]Mol. Microbiol. Group, Tropical Biosphere Research Center, Univ. of the Ryukyus)

ODP-138

Characterization of the Type 7 Secretion System in *Streptococcus intermedius* pathogenicity

○Masanori Hashino, Tsuyoshi Sekizuka, Kentaro Itokawa, Makoto Kuroda (Pathogen Genomics Center, NIID)

ODP-139

Investigation on the cytotoxicity of a cholesterol-dependent cytolysin derived from *Gemella bergeri*

○Haruka Miki[1], Atsushi Tabata[1,2], Ken Kikuchi[3], Kanu Ryu[4], Toshifumi Tomoyasu[1,2], Hideaki Nagamune[1,2] ([1]Div. Bioresour. Sci., Grad. Sch. Sci. & Tech. for Innov., Tokushima Univ., [2]Div. Biosci. & Bioindust., Grad. Sch. Tech., Indust. & Soc. Sci., Tokushima Univ., [3]Dept. Infect. Dis., Tokyo Women's Med. Univ., [4]Dept. Biol. Sci. & Tech., Tokushima Univ.)

ODP-140

Investigation of the cellular response in THP−1 against Streptolysin S produced by *S. anginosus*

○Rina Shirai[1], Atsushi Tabata[1,2], Toshifumi Tomoyasu[1,2], Hideaki Nagamune[1,2] ([1]Div. Bioresour. Sci., Grad. Sch. Sci. & Tech. for Innov.,Tokushima Univ., [2]Div. Biosci. & Bioindust., Grad. Sch. Tech., Indust. & Soc. Sci., Tokushima Univ.)

ODP-141/WS7-2

Identification of signaling pathway that HA of botulinum toxin complex promotes cell proliferation

○Sho Amatsu[1,2], Yukako Fujinaga[1] ([1]Dept. Bacteriol., Sch. Med. Sci., Kanazawa Univ., [2]Dept. Forensic Med. Pathol., Sch. Med. Sci., Kanazawa Univ.)

ODP-142

Involvement of siderophore activity of *Ralstonia solanacearum* in its virulence

○Yuki Terazawa[1], Chika Takemura[1], Wakana Senuma[1], Akinori Kiba[1], Kouhei Ohnishi[1], Kenji Kai[2], Yasufumi Hikichi[1] ([1]Fac. Agri. & Marine Sci., Kochi Univ., [2]Sch. Life & Environmental Sci., Osaka Pre Univ.)

ODP-143/WS7-1

Regulatory mechanism of TSST-1 production in clinically isolated *Staphylococcus aureus*

○Yusuke Taki[1,2], Shinya Watanabe[1], Yusuke Sato'o[1], Fengyu Li[1], Kanate Thitiananpakorn[1], XinEe Tan[1], Yoshifumi Aiba[1], Kotaro Kiga[1], Teppei Sasahara[1], Longzhu Cui[1] ([1]Div. Bacteriology, Sch. Med., Jichi Med. Univ., [2]Dept. Gastroenterological Surg. Shizuoka Gereral Hosp.)

ODP-144

***P. gingivalis* and *F. nucleatum* LPS augment *E. coli* LPS-induced IL-6 production by human monocytes**

○Yuya Sakamoto[1,2], Sakura Onoue[3], Kazuyoshi Kawahara[3], Kenji Matsushita[4], Hiroyuki Tada[2] ([1]Sch. Dent., Tohoku Univ., [2]Dept. Oral Immunol., Sch. Dent., Tohoku Univ., [3]Dept. Biosci., College Sci. Engineer., Kanto Gakuin Univ., [4]Dept. Oral Dis. Res., NCGG)

ODP-145

Vaginal *Lactobacillus iners* impacts on barrier functions of the human vaginal mucosa

○Maho Shimada[1], Mayuko Kato[1], Shiho Sato[1], Miki Ishii[1], Yuki Kodama[1], Masahiro Ito[1,2], Adam J. Ratner[3], Nobuhiko Okada[1], Melissa M. Herbst-Kralovetz[2,4] ([1]Dept. Microbiol., Sch. Pha., Kitasato Univ., [2]Dept. Bas. Med. Sci., Col. Med.-Phoenix, Univ. Arizona, [3]Dept. Ped. Microbiol., Sch. Med., New York Univ., [4]Dept. Obs. Gyn., Col. Med.-Phoenix, Univ. Arizona)

ODP-146

***Aeromonas* serine protease disrupts epithelial junctions and contributes to bacterial translocation**

○Hidetomo Kobayashi[1], Soshi Seike[1], Eizo Takahashi[2], Keinosuke Okamoto[3], Hiroyasu Yamanaka[1] ([1]Labo. Mol. Microbiol. Sci., Fac. Pharm. Sci., Hiroshima International Univ., [2]Labo. Med. Microbiol., Dept. Health Pharm., Yokohama Univ. of Pharmacy, [3]Collaborative Research Center of Okayama Univ. for Infect. Diseases in India)

ODP-147

***Bartonella* species vary in their ability to promote endothelial cell proliferation**

○Kayo Kumadaki[1,2], Yohei Doi[1], Kentaro Tsukamoto[1] ([1]Dept. Microbiol., Fujita Health Univ. Sch. Med., [2]Fujita Health Univ. Grad. Sch. Med.)

ODP-148

Inhibitory effect of nitric oxide on Subtilase cytotoxin

○Hiroyasu Tsutsuki[1], Tianli Zhang[1], Kinnosuke Yahiro[2], Katsuhiko Ono[1], Takaaki Akaike[3], Tomohiro Sawa[1] ([1]Dept. Microbiol., Grad. Sch. Med. Sci., Kumamoto Univ., [2]Dept. Mol. Infectiol., Grad. Sch. Med., Chiba Univ., [3]Dept. Environ. Med. Mol. Toxicol., Grad. Sch. Med., Tohoku Univ.)

ODP-149

Analysis of host response against membrane vesicles derived from *Clostridium botulinum*

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

ODP-150

Function analysis of HA in the intestinal toxin absorption using recombinant botulinum toxin complex

○Chiyono Morimoto, Sho Amatsu, Mayu Kitamura, Takuhiro Matsumura, Yukako Fujinaga (Dept. Bacteriol., Sch. Med. Sci., Kanazawa Univ.)

ODP-151

Potential pathogenicity of *S. mitis* strain Nm-65 based on the complete genomic information

○Atsushi Tabata[1], Hisashi Ohkuni[2], Toshifumi Tomoyasu[1], Hideaki Nagamune[1] ([1]Div. Biosci. & Bioindust., Grad. Sch. Tech., Indust. & Social Sci., Tokushima Univ. Grad. Sch, [2]Health Sci. Res. Inst. East Japan)

ODP-152

Proteolysis of PAI-1 in human endothelial cells by gingipains from *Porphyromonas gingivalis*

○Liting Song[1], Kenji Matsushita[2], Hiroyuki Tada[1] ([1]Dept. Oral Immunol., Sch. Dent., Tohoku Univ., [2]Dept. Oral Dis. Res., NCGG)

ODP-153

Investigating the influence of EPEC infection on the host biogenesis of exosome

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

ODP-154

Functional analysis of mycobacterial protein PE_PGRS30

○Kazunori Matsumura[1], Satoshi Takaki[1], Teruo Kirikae[2] ([1]Dept. Immune Reg., Inst., NCGM, [2]Dept. Microbiol., Sch. Med., Juntendo Univ.)

ODP-155

【Withdrawn】

6 Virulence Factors and Biophylaxis
c. Mechanisms of Intracellular Invasion and Parasitism

ODP-156/WS9-3

Non-hematogenous dissemination of *Streptococcus pneumoniae* from nasopharynx to brain tissue

○Yuki Takahara[1,2], Tomoko Sumitomo[1], Masamitsu Kono[3], Masaya Yamaguchi[1], Masanobu Nakata[4], Muneki Hotomi[3], Shigetada Kawabata[1] ([1]Dept. Oral Mol. Microbiol., Osaka Univ. Grad. Sch. Dent., [2]Dept. Fixed Prothodont., Osaka Univ. Grad. Sch. Dent., [3]Dept. Otorhinolaryngology-Head and Neck Surgery, Wakayama Medical Univ., [4]Dept. Oral. Microbiol., Grad. Sch. Med. and Dent., Kagoshima Univ.)

ODP-157

***Campylobacter jejuni* recruit LC3 to bacterial invasion site on host cells through Rac1 signaling**

○Shiho Fukushima, Takaaki Shimohata, Takashi Uebanso, Kazuaki Mawatari, Akira Takahashi (Dept. Prevent. Environ. Nutr., Inst. Biomed. Sci., Tokushima Univ. Grad. Sch.)

ODP-158

Latent infection of *Helicobacter cinaedi* in bone marrow sustained by super sulfide

○Tetsuro Matsunaga[1], Masaaki Yoshida[1], Akira Nishimura[2], Masanobu Morita[1], Tomoaki Ida[1], Hiroyasu Tsutsuki[3], Tomohiro Sawa[3], Hozumi Motohashi[4], Yoshiaki Kawamura[5], Takaaki Akaike[1] ([1]Dept. Environ. Med. Mol. Toxicol., Tohoku Univ. Grad. Sch. Med., [2]Div. Biol. Sci., Grad. Sch. Sci. Technol., NAIST, [3]Dept. Microbiol., Grad. Sch. Med. Sci., Kumamoto Univ., [4]Dept. Gene Exp. Regulation, IDAC, Tohoku Univ., [5]Dept. Microbiol., Sch. Pharmacy., Aichi-Gakuin Univ.)

6 Virulence Factors and Biophylaxis d. Mechanisms of Immune Evasion and Proliferation in Host

ODP-159

Increased vaginal mucosal indole and IFN-γ levels critically control genital chlamydial infection

○Ryoya Tsujikawa[1], Yuki Funahashi[1], Torahiko Okubo[1], Jeewan Thapa[2], Hiroyuki Yamaguchi[1] ([1]Fac. Health Science, Hokkaido Univ., [2]Res. Cent. Zoonosis Control Hokkaido Univ.)

ODP-160

Osteopontin and exosome in THP-1 macrophage infected with Mycobacterium bovis BCG

○Takashi Matsuba[1], Gaowa Bai[2], Toshiro Niki[3], Toshio Hattori[2] ([1]Div. Bacteriol., Fac. Med., Tottori Univ., [2]Dept. Health Sci. & Soc. Welfare, Kibi Int. Univ., [3]Dept. Immunol., Fac. Med. Kagawa Univ.)

6 Virulence Factors and Biophylaxis e. Basic Studies using Infection Model

ODP-161/WS9-4

Monitoring mycobacterial infection in vivo by 3D imaging CUBIC

○Mariko Hakamata[1,2], Erina Inouchi[1], Akira Yokoyama[1,3], Yuriko Ozeki[1], Akihito Nishiyama[1], Yoshitaka Tateishi[1], Riuko Ohashi[4], Toshiaki Kikuchi[2], Kazuki Tainaka[5], Sohkichi Matsumoto[1] ([1]Dept. Bacteriol., Sch. Med., Niigata Univ., [2]Dept. Respiratory Medicine and Infectious Disease., Sch. Med., Niigata Univ., [3]Dept. Respiratory Medicine, Sch. Med., The Univ. of Tokyo, [4]Histopathology Core Facility, Sch. Med., Niigata Univ., [5]Dept. System Pathology for Neurological Disorders, Brain Research Institute, Niigata Univ.)

ODP-162

Hyaluronate Lyase Involved in Nutrient Acquisition and Pathogenicity of *Streptococcus dysgalactiae*

○An Van Nguyen[1], Kohei Ogura[2], Miki Matsue[3], Norihiko Takemoto[4], Wataru Hashimoto[5], Shigefumi Okamoto[3], Hiroshi Ichimura[1] ([1]Dept. Viral Infect., Grad. Sch. Med. Sci., Kanazawa Univ., [2]Inst. Front. Sci. Init., Kanazawa Univ., [3]Dept. Clin. Lab. Sci., Inst. Med. Pharm. Health Sci., Kanazawa Univ., [4]Pathog. Microb. Lab., Res. Inst., NCGM, [5]Lab. Bas. Appl. Mole. Biotech., Div Food Sci. Biotech., Grad. Agric., Kyoto Univ.)

ODP-163

Stx2 disturbs circadian rhythm in the proximal tubular epithelial cells *in vitro* and *in vivo*

○Fumiko Obata, Ryo Ozuru, Takahiro Tsuji, Takashi Matsuba, Jun Fujii (Div. Bacteriol., Dept. Infect. immun., Fac. Med., Tottori Univ.)

ODP-164

Effectiveness of Lonicera caerulea against pneumococcal infection in aging mouse

○Masaaki Minami[1], Mineo Nakamura[2] ([1]Dept. Bacteriol., Grad. Sch. Med. Sci., [2]Nakamura Pharmacy)

ODP-165

The effect of hypoxia on *Helicobacter pylori* induced inflammasome activation

○Adiza Abass, Toshihiko Suzuki (Dept. Bact. Pathol. Infect. Resp. Sch. Med. Dent., TMDU)

ODP-166

The relationship between leptospirosis and chronic renal dysfunction in a hamster model

○Tsukasa Maruoka[1,2], Satoshi Miyahara[1], Kazumasa Fukuda[1], Midori Ogawa[1], Mitsumasa Saito[1] ([1]Dept. Microbiol., Sch. Med., UOEH., [2]Dept. Anesthesiology., Sch. Med., UOEH.)

ODP-167

Effect of *Helicobacter pylori* infection on intestinal microbiota of MPS mice

○Takako Osaki[1], Hideo Yonezawa[1], Fuhito Hojo[2], Satoshi Kurata[3], Kentaro Oka[4], Motomichi Takahashi[4], Tomoko Hanawa[1], Shigeru Kamiya[1], Jiro Mitobe[1] ([1]Dept. Infect. Dis., Kyorin Univ. Sch. Med., [2]Inst. Lab. Anim. Facilt., Kyorin Univ. Sch. Med., [3]Div. Microbial., Dept. Med Technol., Fac. Health Sci., Kyorin Univ., [4]Central Research Inst., Miyarisan Pharma. Co., Ltd.)

ODP-168

Role of secretory IgA antibodies in suppression of dental caries caused by *Streptococcus sobrinus*

○Tomomi Hashizume-Takizawa, Masanori Saito, Noriko Shinozaki-Kuwahara, Ryoki Kobayashi, Tomoko Kurita-Ochiai (Dept. Microbiol. Immunol., Sch. Dent. at Matsudo, Nihon Univ.)

ODP-169

C-type lectin Mincle is involved in protection against *Mycobacterium leprae* infection in mice

○Tomomi Kawakita[1,3], Yumi Maeda[1], Sho Yamasaki[2], Akihide Ryo[3], Manabu Ato[1] ([1]Dept. Mycobacteriology, Leprosy Research Center, National Institute of Infectious Diseases, [2]Dept. Molecular Immunology, Research Institute for Microbial Diseases, Osaka Univ., [3]Dept. Microbiology and Molecular Biodefense Research, Yokohama City Univ. Grad. Sch. Medicine)

ODP-170

Establishment of a new Streptococcal toxic shock syndrome model using immunocompromised mice

○Takahiro Tsuji[1], Fumiko Obata[1], Ryo Ozuru[1], Satoshi Miyahara[2], Mitsumasa Saito[2], Jun Fujii[1] ([1]Div. Bacteriol., Dept. Microbiol. Immunol., Faculty of Med., Tottori Univ., [2]Dept. Microbiol., Sch. Med., Univ. of Occupational and Environmental Health)

ODP-171

Effect of *Fusobacterium nucleatum* on COPD model mice

○Noriaki Kamio[1], Ryuta Suzuki[1,2], Kenichi Imai[1] ([1]Dept. Microbiol., Sch. Dent., Nihon Univ., [2]Dept. Oral Surg., Sch. Dent., Nihon Univ.)

ODP-172

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

○Rina Katayama[1], Yumi Matsumoto[1], Yukina Higashi[1], Honoka Sasao[2], Yoshihiko Tanimoto[1], Simo Sun[1], Yoshikazu Nishikawa[1], Eriko Nakadai (Kage)[1] ([1]Grad. Sch. Human Life Science, Osaka City Univ., [2]Dept. Human Life Science, Osaka City Univ.)

6 Virulence Factors and Biophylaxis
f. Immune Mechanism, Development of Vaccines

ODP-173

***Salmonella* FimH is involved in the expression of pro-inflammatory cytokines in TLR4-dependent manner**

○Kei-ichi Uchiya, Masahiro Ando (Dept. Microbiol., Fac. Pharm., Meijo Univ.)

ODP-174

Synthetic lipid A of *Alcaligenes* augments nasal vaccine efficacy to prevent pneumococcal infection

○Ken Yoshii[1,2], Koji Hosomi[1], Atsushi Shimoyama[3], Yunru Wang[1,4], Haruki Yamaura[3], Takahiro Nagatake[1], Hidehiko Suzuki[1], Huangwenxian Lan[1,4], Hiroshi Kiyono[5,6,7,8], Koichi Fukase[3], Jun Kunisawa[1,2,4,5,9,10,11,12] ([1]The Laboratory of Vaccine Materials., NIBIOHN., [2]Grad. Sch. Med., Osaka Univ., [3]Grad Sch. Sci., Osaka Univ., [4]Grad Sch. Pharmaceutical Sci., Osaka Univ., [5]International Research and Development Center for Mucosal Vaccines, IMSUT., [6]Dept. Mucosal Immunol., IMSUT Distinguished Professor Unit., IMSUT., [7]Dept. Gastroenterology., Sch. Med and CU-UCSD Center for Mucosal Immunology, Allergy and Vaccine., Univ. California., [8]Grad Sch. Med., Chiba Univ., [9]Grad Sch. Dent., Osaka Univ., [10]Grad Sch. Med., Kobe Univ., [11]Grad Sch. Biomedical and Health Sci., Hiroshima Univ., [12]Research Organization for Nano & Life Innovation., Waseda Univ.)

ODP-175/WS9-1

***In vitro* Bacterial Evaluation Model using Human iPS Cell-derived Small Intestinal Epithelial Cells**

○Nao Yamazaki[1], Shinji Mima[1], Yuki Imakura[1], Takahiro Iwao[2], Tamihide Matsunaga[2], Shinichi Watanabe[1], Kozo Nagata[1], Masahiko Taniguchi[1] ([1]Bio Science & Engineering Laboratory, FUJIFILM Corporation, [2]Dept. Clinical Pharmacy, Grad. Sch. Pharmaceutical Sciences, Nagoya City Univ.)

ODP-176

Difference of anti-oxidative stress responses between BCG Tokyo 172 type I and type II

Keiichi Taniguchi[1], Daisuke Hayashi[2], Naomi Yasuda[3], Mao Nakayama[3], Saotomo Itoh[1], Saburo Yamamoto[2], Naoya Ohara[4], Shigeaki Hida[1], Kikuo Onozaki[1], ○Takemasa Takii[1,3] ([1]Dept. Molecular Health Sciences, Grad. Sch. Pharmaceutical Sciences, Nagoya City Univ., [2]Japan BCG Laboratory, [3]Dept. Mycobacterium Reference and Research, The Research Institute of Tuberculosis, Japan Anti-Tuberculosis Association, [4]Dept. Oral Microbiology, Grad. Sch. Medicine, Dentistry, and Pharmaceutical Sciences, Okayama Univ.)

ODP-177

Novel vaccine with SseJ, Salmonella effector protein, against salmonellosis

○Momoko Nakayama, Swarmistha Devi Aribam, Yohsuke Ogawa, Yoshihiro Shimoji, Masahiro Eguchi (NIAH, NARO)

ODP-178

Regulation of *Clostridium ramosum*-induced disorders by antigen-specific mucosal immunity

○Koichiro Fujii[1], Kosuke Fujimoto[1,2,3], Satoshi Uematsu[1,2,3] ([1]Dept. Immunology and Genomics, Osaka City Univ. Grad. Sch. Medicine, [2]Div. Metagenome Medicine, Human Genome Center, The Institute of Medical Science, The Univ. of Tokyo, [3]Div. Innate Immune Regulation, International Research and Development Center for Mucosal Vaccine, The Institute of Medical Science, The Univ. of Tokyo)

ODP-179

NADPH oxidases and NO synthases activate super sulfur species conferring anti-microbial host defense

○Tsuyoshi Takata[1], Tomoaki Ida[1], Tetsuro Matsunaga[1], Masanobu Morita[1], Yukihiro Tsuchiya[2], Yasuo Watanabe[2], Hideki Sumimoto[3], Hozumi Motohashi[4], Takaaki Akaike[1] ([1]Dept. Environ. Med. Mol. Toxicol., Tohoku Univ., Grad. Sch. Med., [2]Dept. Pharm., Showa Pharm. Univ., [3]Dept. Biochem., Kyushu Univ., Grad. Sch. Med. Sci., [4]Dept. Gene Exp. Reg., IDAC, Tohoku Univ.)

ODP-180

Perturbation of host protective immunity by mycobacterial carbohydrates

○Shota Torigoe[1], Akira Kawano[2], Satoru Mizuno[2], Kazuhiro Matsuo[2], Sho Yamasaki[1,3,4,5] ([1]Dept. Mol. Immunol., RIMD, Osaka Univ., [2]Japan BCG Laboratory, [3]Lab. Mol. Immunol., IFReC, Osaka Univ., [4]Div. Mol. Immunol., MIB, Kyushu Univ., [5]Div. Mol. Immunol. MMRC, Chiba Univ.)

ODP-181

Vaccine development against tuberculosis by using BCG-derived membrane vesicles

○Takehiro Yamaguchi[1], Ryoma Nakao[2], Shuhei Tomita[1] ([1]Dept. Pharmacol., Sch. Med., Osaka City Univ., [2]Dept. Bacteriol. I, Natl. Inst. Infect. Dis.)

ODP-182
Host defense mechanism by nitric oxide and super sulfide in *Salmonella* infection
○Masaaki Yoshida[1], Tetsuro Matsunaga[1], Tsuyoshi Takata[1], Tomoaki Ida[1], Masato Tsutsui[2], Masanobu Morita[1], Tomohiro Sawa[3], Takaaki Akaike[1] ([1]Dept. Environ. Med. Mol. Toxicol., Tohoku Univ. Grad. Sch. Med., [2]Dept. Pharmacol., Grad. Sch. Med., Univ. the Ryukyus, [3]Dept. Microbiol., Grad. Sch. Med. Sci., Kumamoto Univ.)

ODP-183
Gasdermin D mediates the maturation and release of IL-1α downstream of inflammasomes
○Kohsuke Tsuchiya, Takashi Suda (Div. Immunol., Cancer Res. Inst., Kanazawa Univ.)

ODP-184
Elucidation of mechanism of human monoclonal antibodies neutralizing botulinum neurotoxin serotype B
○Mayu Kitamura, Takuhiro Matsumura, Sho Amatsu, Masahiro Yutani, Chiyono Morimoto, Yukako Fujinaga (Dept. Microbiol., Sch. Med. Sci., Kanazawa Univ.)

6 Virulence Factors and Biophylaxis
g. Others

ODP-185/WS7-4
LL-37 ameliorates mouse sepsis by releasing antimicrobial extracellular vesicles
○Yumi Kumagai[1], Soichiro Kakuta[2], Kyoko Kuwahara[3], Isao Nagaoka[1,4] ([1]Dept. Host Defense Biochem. Res., Sch. Med., Juntendo Univ., [2]Lab. Morphol. Image Analysis, Sch. Med., Juntendo Univ., [3]Dept. Microbiol., Sch. Med., Juntendo Univ., [4]Faculty Health Sci., Juntendo Univ.)

ODP-186
***P. aeruginosa suhB* and pili-associated genes related to bacterial translocation and virulence in fly**
○Chigusa Suezawa, Masashi Yasuda, Satoshi Yamane, Syouya Nagata, Chinami Kunikata, Jun Okuda (Div. Microbiol., Dept. Med. Tech., Kagawa Pref. Univ. of Health Sci.)

ODP-187
The mechanism of LL-37-induced autophagy and cell death in endothelial cells
○Kaori Suzuki[1], Isao Nagaoka[1,2] ([1]Dept. Host Defense & Biochem Res, Juntendo Univ. Sch. Med, [2]Fac. Health Science, Juntendo Univ.)

ODP-188
VuuB and IutB reduce ferric-vulnibactin in *Vibrio vulnificus* M2799
○Katsushiro Miyamoto[1], Naoko Okai[1], Koji Tomoo[2], Takahiro Tsuchiya[1], Jun Komano[1], Tomotaka Tanabe[3], Tatsuya Funahashi[3], Hiroshi Tsijibo[1] ([1]Dept. Microbiol. Infect. Control, Osaka Univ. Pharm. Sci., [2]Dept. Phys. Chem., Osaka Univ. Pharm. Sci., [3]Dept. Hyg. Chem., Col. Pharm. Sci., Matsuyama Univ.)

ODP-189
Analysis of exacerbating factor of ulcerative colitis
○Ryo Kutsuna, Yuna Iwahashi, Koichiro Nagata, Junko Tomida, Yoshiaki Kawamura (Dept. Microbiol., Sch. Pharm., Aichi Gakuin Univ.)

ODP-190
Autophagy-related gene 9 regulates intracellular invasion of Group A Streptococcus
○Junpei Iibushi, Hirotaka Toh, Takashi Nozawa, Ichiro Nakagawa (Dept. Microbiol., Grad. Sch. Med., Kyoto Univ.)

ODP-191/WS7-3
Guanylate binding protein-1 regulates xenophagy through TBK1 activation
○Miyako Hikichi, Takashi Nozawa, Ichiro Nakagawa (Dept. Microbiol., Grad. Sch. Med., Kyoto Univ.)

7 Antimicrobials and Drug Resistance
a. Antimicrobial Agents

ODP-192/WS10-8
Adduct formation of delamanid with NAD in mycobacteria
○Akihito Nishiyama[1], Mikayo Hayashi[2], Ryuki Kitamoto[2], Yoshitaka Tateishi[1], Mayuko Osada-Oka[3], Yukiko Nishiuchi[4], Xiuhao Chen[2], Kentaro Kaneko[5], Makoto Matsumoto[2], Sohkichi Matsumoto[1] ([1]Dept. Bacteriol., Sch. Med., Niigata Univ., [2]Pharm. Bus. Div., Otsuka Pharmaceutical Co., Ltd., [3]Div. Applied Life Sci., Grad. Sch. Life Environ. Sci., Kyoto Prefect. Univ., [4]Toneyama Ins. for Tuberculosis Res., Med. Sch., Osaka City Univ., [5]Grad. Sch. Sci. Technol., Niigata Univ.)

ODP-193
Growth inhibition of *Campylobacter* spp. by *Bacillus natto*
○Ryosuke Kadoya, Miyuu Iketani, Riho Kaneda (Dept. Food and Nutrition, Sch. of Life Stud., Sugiyama Jogakuen Univ.)

ODP-194
Biological effects of *Monascus spp*. fermented products on diarrheagenic bacteria and mammalian cells
○Jun Xu[1], Rino Arakaki[2], Shinjiro Tachibana[2], Tetsu Yamashiro[1] ([1]Dept. Bacteriol., Grad. Sch. Med., Univ. Ryukyus, [2]Dept. Biosci. Biotechnol. Faculty Agric., Univ. Ryukyus)

ODP-195/WS10-7

Anti-inflammatory effect of *Staphylococcus aureus* phage ΦMR003 on wound infection

○Tomoya Suda[1], Tomoko Hanawa[2], Mayuko Tanaka[2], Kazuhiko Miyanaga[3], Yasunori Tanjii[3], Takeaki Matsuda[1,4] ([1]Dept. Gen. Med., Sch. Med., Kyorin Univ., [2]Dept. Infect. Dis., Sch. Med., Kyorin Univ., [3]Dept. Lif. Sci. Tech., Tokyo Tech Univ., [4]Dept. Trauma and Crit. Care., Sch. Med., Kyorin Univ.)

ODP-196

Effect of phloridzin on biofilm formation of *Candida albicans*

○Tetsuya Sakuta[1,2], Yuichi Oogai[1], Masanobu Nakata[1] ([1]Dept. Oral Microbiol., Grad. Sch. Med. and Dent., Kagoshima Univ., [2]Dept. General Dent. Practices, Kagoshima Univ. Med. and Dent. Hosp.)

ODP-197

Red ginseng saponins suppress the release of hemolysin from *Staphylococcus aureus*

○Yuina Iwasaki[1], Mayuko Oka[1], Keiichi Samukawa[2], Risa Imamiya[1], Yukiko Minamiyama[1], Hiroshi Iwao[3] ([1]Food Hyg. Env. Health., Grad. Sch. Life Env. Sci., Kyoto Pref. Univ., [2]Dept. Pharmacol., Osaka City Univ. Med. Sch., [3]Dept. Educ., Shitennoji Univ.)

ODP-198

Isolation/characterization of oral antibiotic-resistant Gram-negative bacteria in nursing homes

○Azusa Haruta[1], Miki Matsuo[2,3], Mineka Yoshikawa[1], Maho Takeuchi[1], Mi Nguyen Tra Le[2,3], Koji Yahara[3,4], Hiroki Ouge[3,5], Kazuhiro Tsuga[1], Motoyuki Sugai[3,4], Hitoshi Komatsuzawa[2,3] ([1]Dept. Advanced Prosthodont., Grad. Sch. Biomed. & Health Sci., Hiroshima Univ., [2]Dept. Bacteriol., Grad. Sch. Biomed. & Health Sci., Hiroshima Univ., [3]Project Research Ctr., Nosocomial Infectious Diseases, Hiroshima Univ., [4]Antimicrobial Resistance Research Ctr., National Institute of Infectious Diseases, [5]Dept. Infect. Dis., Hiroshima Univ. Hosp.)

ODP-199

Fennel extract induce membrane vesicle production and rapid bactericidal effect against *P.gingivalis*

○Nanami Yoshino[1,3], Tsuyoshi Ikeda[2], Ryoma Nakao[3] ([1]Central Res. Inst., S&B FOODS Inc., [2]Pharm. Sci., Sojo Univ., [3]Dept. Bacteriol. 1, Natl. Inst. Infect. Dis.)

ODP-200

The therapeutic effect of hinokitiol on the murine model of pneumococcal pneumonia

○Toshihito Isono[1], Hisanori Domon[1,2], Tomoki Maekawa[1,2], Hikaru Tamura[1,2], Takumi Hiyoshi[1], Katsunori Yanagihara[3], Eiji Kunitomo[4], Yutaka Terao[1,2] ([1]Div. Microbiol. Infect. Dis., Niigata Univ. Grad. Sch. Med. & Dent. Sci., [2]Cent. for Adv. Oral Sci., Niigata Univ. Grad. Sch. Med. & Dent. Sci., [3]Dept. Laboratory Medicine, Nagasaki Univ. Grad. Sch. Biomed., [4]Central R&D Lab., Kobayashi Pharma.)

ODP-201

【Withdrawn】

ODP-202

Analysis of photoinactivation mechanism of bacteria by porphyrins using electrochemical sensors

○Hisato Kato, Kazufumi Masuda, Takashi Katsu (Sch. Pharmacy, Shujitsu Univ.)

ODP-203

Enhanced bacterial killing by polysulfide donor in macrophages and neutrophils

○Tianli Zhang[1], Azizur Rahman[1], Hiroyasu Tsutsuki[1], Katsuhiko Ono[1], Kei Miyano[2], Akira Yamauchi[2], Takaaki Akaike[3], Tomohiro Sawa[1] ([1]Dept. Microbiol., Sch. Med Sci., Kumamoto Univ., [2]Dept. Biochem., Kawasaki Med Sch., [3]Dept. Environ Med and Mol Toxi., Tohoku Univ., Sch. Med)

7 Antimicrobials and Drug Resistance
b. Drug Resistance

ODP-204

Metagenomic and resistome analysis of an effluent of urban sewage treatment plants in Tokyo

○Tsuyoshi Sekizuka, Kentaro Itokawa, Koji Yatsu, Masanori Hashino, Makoto Kuroda (Pathogen Genomics Center, NIID)

ODP-205

Prevalence of virulence genes and antimicrobial resistance of *Cronobacter* spp. in Japan

○Yumiko Okada[1], Tatsuya Nakayama[1], Shogo Otake[2], Masashi Kasai[2], Hodaka Suzuki[3], Hirokazu Ogihara[4], Stephen James Forsythe[5] ([1]Nat. Inst. Health Sci., [2]Hyogo Pref. Kobe Children Hosp., [3]Col. Agri., Ibaraki Univ., [4]Col. Bioresource Sci., Nihon Univ., [5]foodmicrobe.com)

ODP-206/WS10-4

Functional analysis of intrinsic drug resistance genes in *M. tuberculosis* using CRISPR interference

○Nao Hirata, Kayo Kumadaki, Motoko Shinohara, Yui Kitagawa, Yusuke Minato (Dept. Microbiol., Med., Fujita Health Univ.)

ODP-207/WS10-1

Heterogeneity of intracellular ATP abundance in *Salmonella* Typhimurium induces diverse persisters

○Naoki Yamamoto, Satoshi Tsuneda (Dept. Life Sci. Med. Biosci., Grad. Sch. Adv. Sci. Eng., Waseda Univ.)

ODP-208

Evaluation of genotype-based antimicrobial resistance prediction in *Serratia marcescens*

○Debora Satie Nagano, Tomoyuki Ono, Yasuhiro Gotoh, Keiji Nakamura, Itsuki Taniguchi, Tetsuya Hayashi (Dept. Bacteriol., Fac. Med. Sci., Kyushu Univ.)

ODP-209/WS10-5
Qualitative and quantitative assessments of ESBL-producing *Escherichia coli* in retail chicken meats
◯Shiori Yamamoto, Tatsuya Nakayama, Rika Machida, Hiroshi Asakura (Div. Biomed. Food Res., Nath. Inst. Health Sci.)

ODP-210
Identification of β-lactam ring opened carbothioic S-acids mediated by cysteine hydropersulfide
◯Katsuhiko Ono[1], Hiroyasu Tsutsuki[1], Tianli Zhang[1], Takaaki Akaike[2], Tomohiro Sawa[1] ([1]Dept. Microbiol., Grad. Sch. Med. Sci., Kumamoto Univ., [2]Dept. Envir. Med. Mol. Toxicol., Tohoku Univ., Grad. Sch. Med.)

ODP-211
Enhanced Carbapenem Resistance through Multimerization of Plasmids Carrying Carbapenemase Genes
◯Ryuichiro Abe[1], Yukihiro Akeda[1,2], Yo Sugawara[1], Ryuji Kawahara[3], Kazunori Tomono[2], Shigeyuki Hamada[1] ([1]RIMD, Osaka Univ., [2]Dept. Infect. Cont. Prevent., Med. Hosp., Osaka Univ., [3]Div. Microbiol., Osaka Inst. Public Health)

ODP-212
Identification of antibiotic tolerance related genes to AIA-1 in *Pseudomonas aeruginosa*
◯Muhammad Reza Pahlevi, Keiji Murakami, Rina Murata, Hideki Fujii (Dept. Oral Microbiol., Insti. Biomed. Sciences, Tokushima Univ. Grad. Sch.)

ODP-213
The killing effect of biapenem to carbapenemase-producing *Enterobacteriaceae*
◯Makoto Miyoshi[1], I Putu Bayu Mayura[1], Kazuyoshi Gotoh[1], Takehiko Mima[1], Yumiko Yamamoto[1], Kenji Yokota[2], Osamu Matsushita[1], Hideharu Hagiya[3] ([1]Dept. Bacteriol., Grad. Sch. Med. Dent. Pharm. Sci., Okayama Univ., [2]Grad. Sch. Health Sci., Okayama Univ., [3]Dept. Gen. Med., Grad. Sch. Med. Dent. Pharm. Sci., Okayama Univ.)

ODP-214/WS10-6
Exploration of host receptors in PB1-like phages infection towards *Pseudomonas aeruginosa*
◯Keisuke Nakamura[1], Jumpei Fujiki[1], Takaaki Furusawa[1], Montgomery Munby[1], Tomohiro Nakamura[1], Masaru Usui[2], Satoshi Gondaira[3], Hidetoshi Higuchi[3], Yutaka Tamura[2], Hidetomo Iwano[1] ([1]Lab. Vet. Biochem., Dept. Vet. Med., Rakuno Gakuen Univ., [2]Lab. Food. Microbiol., Dept. Vet. Med., Rakuno Gakuen Univ., [3]Lab. Vet. Hygiene., Dept. Vet. Med., Rakuno Gakuen Univ.)

7 Antimicrobials and Drug Resistance
c. Others

ODP-215
Development of the photo-antibacterial targeting therapy
◯Kazuhide Sato[1,2,3,4], Hirotoshi Yasui[3], Kazuomi Takahashi[3], Shunichi Taki[3], Tomohiro Akashi[5], Yoshiyuki Nakagawa[5] ([1]Nagoya Univ. Institute for Advanced Research, [2]Nagoya Univ. Institute for Advanced Research, Advanced Analytical and Diagnostic Imaging Center (AADIC) / Medical Engineering Unit (MEU), [3]Respiratory Medicine, Nagoya Univ. Grad. Sch. Medicine, [4]Nagoya Univ. Institute of Nano-Life-Systems, Institutes of Innovation for Future Society, [5]Div. OMICS analysis, Nagoya Univ. Grad. Sch. Medicine)

ODP-216
Effects of emedastine and josamycin on atopic dermatitis like-skin lesions in NC/Nga mice
◯Katsuhiko Matsui, Sayuko Komori, Atsumi Higuchi (Dept. Clin. Immunol., Meiji Pharm. Univ.)

ODP-217
Microbicidal effect of deep ultraviolet light-emitting diode irradiation
◯Masashi Yanagihara[1], Jun Nishikawa[2], Tatsuya Takagi[2], Soichiro Fukuda[2], Yuki Kobayashi[2], Ken-Ichiro Otsuyama[2], Junzo Nojima[2], Hidehiro Tsuneoka[2], Kohei Sakai[3], Kimikazu Hamano[1] ([1]Dept. Surg. Clin. Sci., Grad. Sch. Med., Yamaguchi Univ., [2]Dept. Lab. Sci., Fac. Health Sci., Grad. Sch. Med., Yamaguchi Univ., [3]Dept. Oncol. Lab. Med., Grad. Sch. Med., Yamaguchi Univ.)

ODP-218/WS10-3
ATP-dependent Lon protease regulates awakening from ciprofloxacin-induced persistence
Naoki Maekawa[1], Kengo Itadera[2], Junichi Ishihara[2], Satsuki Kajiya[3], Daiki Tanaka[4], Tetsushi Sekiguchi[4], Shuichi Shoji[3], Masami Ishibashi[1], Hiroki Takahashi[2], ◯Akiko Takaya[1,2] ([1]Dep. Nat. Prod. Chem., Grad. Sch. Pharm. Sci., Chiba Univ., [2]MMRC, Chiba Univ., [3]Fac. Sci. Eng., Waseda Univ., [4]Res. Org. Nano Life Inno., Waseda Univ.)

ODP-219/WS10-2
E. coli persister formation from ldhA expression is mediated by DNA repair via recA expression
◯Yurino Ohno, Naoki Yamamoto, Satoshi Tsuneda (Dept. Life Sci. Med. Biosci., Grad. Sch. Adv. Sci. Eng., Waseda Univ.)

ODP-220
Estimation of Plasmid Genetic Background by using UGS analysis of ESBL coding gene
◯Nobuyoshi Yagi, Saki Tawata, Itaru Hirai (Lab. Microbiol., Sch. Health. Sci., Univ. Ryukyus)

ODP-221

Generation of phagemid-based CRISPR-Cas13 antimicrobials against MRSA

○Fengyu Li, Kotaro Kiga, Xin-Ee Tan, Shinya Watanabe, Yusuke Sato'o, Yoshifumi Aiba, Kanate Thitiananpakorn, Yusuke Taki, Teppei Sasahara, Longzhu Cui (Div. Bacteriol., Sch. Med., Jichi Med. Univ.)

ODP-222

Inhibitory effect of thymoquinone on biofilm formation of *Fusobacterium nucleatum*

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

ODP-223

Upstream Gene Sequences of IS*Ecp1* in ESBL-Producing *E. coli* collected from Indonesia and Vietnam

○Fikri Sasongko Widyatama[1], Rosantia Sarassari[1,2], Nobuyoshi Yagi[1], Kuntaman Kuntaman[2], Itaru Hirai[1] ([1]Lab. Microb., Sch. Health Sci., Univ. of the Ryukyus, [2]Dept. Clin. Microb., Fac. Med., Airlangga Univ.)

ODP-224

The panel of antibiotic-resistant strains of *Helicobacter pylori*

○Shunji Hayashi[1], Takako Osaki[1], Hiroaki Takeuchi[1], Kenji Yokota[1], Shin-ichi Yokota[1], Emiko Rimbara[2] ([1]Subcommittee for the panel of resistant strains of H. pylori, JSHR, [2]Dept. Bacteriology II, National Institute of Infectious Diseases)

ODP-225

Role(s) of the MexXY muitidrug efflux system on pyoverdine production in *Pseudomonas aeruginosa*

○Kei Ikarashi[1], Shinya Suzuki[2], Tadashi Kumazawa[2], Miyu Nitta[1], Kotaro Suzuki[1], Ryo Kutsuna[2], Junko Tomida[2], Tomoe Ichikawa[1], Yoshiaki Kawamura[2], Yuji Morita[1] ([1]Dept. Infect. Cont. Sci., Sch. Parm., Meiji Pharm. Univ., [2]Dept. Micro., Sch. Pharm., Aichi Gakuin Univ.)

8 Application of Microorganisms
a. Applications of Microorganisms and Microbial Products

ODP-226

Exploration of amino acid as an indicator for proliferative activity of Escherichia coli

○Akane Yonezawa[1], Miki Matsue[1], Asuka Mizutani[2], Masato Kobayashi[2], Syuusei Ohata[2], Yuka Muranaka[2], Eri Mizusawa[3], Hideki Maki[3], Keiichi Kawai[2], Shigefumi Okamoto[1] ([1]Dept. Clin. Lab. Sci., Kanazawa Univ., Grad. Sch. Med., Pharm., and Health Sci., [2]Dept. Radiology. Lab. Sci., Kanazawa Univ., Grad. Sch. Med., Pharm., and Health Sci., [3]SHIONOGI CO., LTD.)

ODP-227

***Hericium erinaceus* ethanol extracts have endotoxin-neutralizing activity**

○Hiraku Osawa[1,2], Sakura Onoue[3], Kazuyoshi Kawahara[3], Kenji Matsushita[4], Hiroyuki Tada[2] ([1]Sch. Dent., Tohoku Univ., [2]Dept. Oral Immunol., Sch. Dent., Tohoku Univ., [3]Dept. Biosci., College Sci. Engineer., Kanto Gakuin Univ., [4]Dept. Oral Dis. Res., NCGG)

ODP-228

Analysis of collagen-anchor from Clostridial collagenase and its application for nerve regeneration

○Osamu Matsushita[1], Takehiko Mima[1], Kazuyoshi Gotoh[1], Yumiko Yamamoto[1], Perry Caviness[2], Joshua Sakon[2], Kentaro Uchida[3], Hisako Fujimaki[3], Gen Inoue[3], Masashi Takaso[3] ([1]Dept. Bacteriol., Grad. Sch. Med. Dent. Pharm. Sci., Okayama Univ., [2]Dept. Chem. Biochem., Univ. Arkansas, USA, [3]Dept. Orthop. Surg., Sch. Med., Kitasato Univ.)

ODP-229

Bilateral analgesic effect of botulinum toxin type A in chemotherapy-induced peripheral neuropathy

○Yumiko Yamamoto[1], Arief Waskitho[2], Huijiao Yan[2], Resmi Raju[2], Swarna Lakshmi Raman[2], Takehiko Mima[1], Kazuyoshi Gotoh[1], Kenji Yokota[3], Osamu Matsushita[1], Yoshizo Matsuka[2] ([1]Dept. Bacteriol., Grad. Sch. Med. Dent. Pharm. Sci., Okayama Univ., [2]Grad. Sch. Biomed. Sci., Tokushima Univ., [3]Grad. Sch. Health Sci., Okayama Univ.)

ODP-230

The biological effect of *Monascus* spp.-extracts on cholera toxin production

○Rino Arakaki[1], Naomi Higa[2], Jun Xu[2], Shinjiro Tachibana[1], Tetsu Yamashiro[2] ([1]Dept. Ferment. Life Sci., Grad. Sch. Agri., Univ. Ryukyus, [2]Dept. Bacteriol. Grad. Sch. Med., Univ. Ryukyus)

ODP-231

Delivery of an Anti-inflammatory Bacterial Toxin to Macrophages Using PLGA-Nanoparticles

○Ayaka Harada[1], Hiroyasu Tsutsuki[2], Tianli Zhang[2], Ruda Lee[3], Kinnosuke Yahiro[4], Tomohiro Sawa[2], Takuro Niidome[1] ([1]Fac. Adv. Sci. and Tech., Kumamoto Univ., [2]Dept. Microbiol., Grad. Sch. Med. Sci., Kumamoto Univ., [3]Int. Res. Org. Adv. Sci. Tech., Kumamoto Univ., [4]Dept. Mol. Infect., Grad. Sch. Med., Chiba Univ.)

8 Application of Microorganisms b. Biotechnology, and Synthetic Biology

ODP-232
Clinical applicability of phage-derived lytic enzyme S25-3LYS to canine superficial pyoderma
○Ichiro Imanishi[1], Koji Nishifuij[2], Ryota Asahina[3], Shunji Hayashi[1], Tomohiro Tsukui[4], Jumpei Uchiyama[5] ([1]Dept. Microbiol, Sch. Med., Kitasato Univ., [2]Dept. Vet Interanal Med, Sch. Agr., Tokyo Univ. of Agriculture and Tech., [3]Dept. Dermatol, Sch. Med., Kyoto Univ., [4]Nippon Zenyaku Kogyo Co., Ltd., [5]Dept. Microbiol 1, Sch. Vet., Azabu Univ.)

ODP-233/WS4-3
Visualization of gene expression history Using Genetic Toggle Switch
○Miki Sekimoto[1], Naoki Yamamoto[1], Yuto Kawai[1], Daisuke Kiga[2], Satoshi Tsuneda[1] ([1]Dept. Life Sci. Med. Biosci., Grad. Sch. Adv. Sci. Eng., Waseda Univ., [2]Dept. Electr. Eng. Biosci., Grad. Sch. Adv. Sci. Eng., Waseda Univ.)

ODP-234
Whole genome cloning of unculturable bacteria
○Masaki Mizutani, Kaori Miyakoshi, Shigeyuki Kakizawa (Bioproduction Research Institute, National Institute of Advanced Industrial Science and Technology (AIST))

ODP-235
A novel arabinose-inducible expression system developed for *Clostridium perfringens*
○Riyuki Arakawa[1], Hiroki Kawahata[1], Hirofumi Nariya[2], Shigeru Miyata[1] ([1]Grad. Sch. Biosci. Biotech., Chubu Univ., [2]Fac. Human Life, Jumonji Univ.)

8 Application of Microorganisms c. Others

ODP-236
Inhibitory effect of biofilm formation by Abietane-type diterpenoids
○Jyunya Nakai, Keisuke Negishi, Souichi Yamamoto, Kenta Shinohara, Ryuta Nishi, Yoichi Yamada, Toshiyuki Kudo, Sumiko Shiota (Dept. Laboratory of Molecular Biology., Sch. Pha., Shujitsu Univ.)