

第 99 回

日本細菌学会総会 プログラム集

Programs of the 99th Annual Meeting of
Japanese Society for Bacteriology

令和8年3月20日(金)~22日(日)

広島国際会議場

第 99 回日本細菌学会総会

会 期 令和 8 年（2026 年）3 月 20 日（金）～ 22 日（日）

会 場 広島国際会議場
〒 730-0811
広島県広島市中区中島町 1-5（平和記念公園内）

総 会 長 小松澤 均 広島大学大学院医系科学研究科細菌学教室

シンポジウム企画調整委員会

委員長	大原 直也	岡山大学
副委員長	小椋 義俊	久留米大学
委員長補佐	中山 真彰	岡山大学
	阿戸 学	国立感染症研究所
	石井 良和	広島大学
	大崎 敬子	杏林大学
	金城 雄樹	東京慈恵会医科大学
	桑原 知巳	香川大学
	小松澤 均	広島大学
	柴山 恵吾	名古屋大学
	住友 倫子	徳島大学
	知花 博治	千葉大学
	中根 大介	電気通信大学
	野村 暢彦	筑波大学
	三室 仁美	大分大学
	八尋錦之助	京都薬科大学

理 事 会 3 月 20 日（水）12:00 ～ 16:00
広島国際会議場 B1F 会議運営事務室

The 99th Annual Meeting of Japanese Society for Bacteriology Timetable

March 19 (Thu)

Day 1: March 20 (Fri)

Time	International Conference Center Hiroshima		International Conference Center Hiroshima						
	Conference Management Room		Room 1	Room 2	Room 3	Room 4	Posters	Exhibition	
	①	②	Phoenix Hall	Himawari	Dahlia 1	Dahlia 2	Cosmos & Ran	Sakura	
8:00									
9:00			8:30-11:30 S1 J/E New Frontiers in Infectious Disease Research through International Collaboration (co-hosted by Japanese Society for Bacteriology and AMED U.S.-Japan Cooperative Medical Sciences Program) Yukihiro Akeda Sokichi Matsumoto	9:00-11:30 S2 J Evolutionary dynamics of pathogens driven by genomic diversity, host adaptation, and drug resistance Yumi Matsuoka Hiroki Takahashi	9:00-10:30 WS1 J Iron at the center of diverse bacterial interactions Kazuya Ishikawa Masayuki Tsuzuki	9:00-10:30 WS2 J Frontiers in Female Reproductive Microbiome Research Masahiro Ito Kim Yun-Gi	Setup		
10:00									
11:00									
12:00	12:00-16:00		11:45-12:45 Luncheon Seminar 1 Sponsored by YKK Corporation		11:45-12:45 Luncheon Seminar 2 Sponsored by Daiichi Sankyo Co., Ltd.				
13:00			13:00-14:30 J Special lecture Motoyuki Sugai	13:00-15:00 J S3 Model Bacteria at the Forefront of Microbiology —The Cutting Edge of Bacterial Growth and Survival Mechanisms— Daisuke Shiomi Shigeyuki Kakizawa				Exhibition	
14:00	Board Members Meeting								Display
15:00			14:45-16:45 S4 J Membrane Optimization: Evolutionary and Environmental Adaptations across Domains Takuya Shiota Yosuke Tashiro	15:15-16:45 WS3 J Frontiers in Microbial Control Research Akira Takahashi Tomomi Kuwahara	15:00-16:45 J/E WS4 Flash Talk 1				
16:00		16:00-18:00							
17:00		Board Council Members Meeting							
18:00							17:00-18:30 Presentation Discussion [Odd] 45 min [Even] 45 min		
19:00			18:40-20:30 Social event This casual party will allow all to cement the relationships formed at the annual meeting. Advance reservations are required. Venue: The International Conference Center Hiroshima B1F Conference Management Room ①~⑤						
20:00									
21:00									

Day 2: March 21 (Sat)

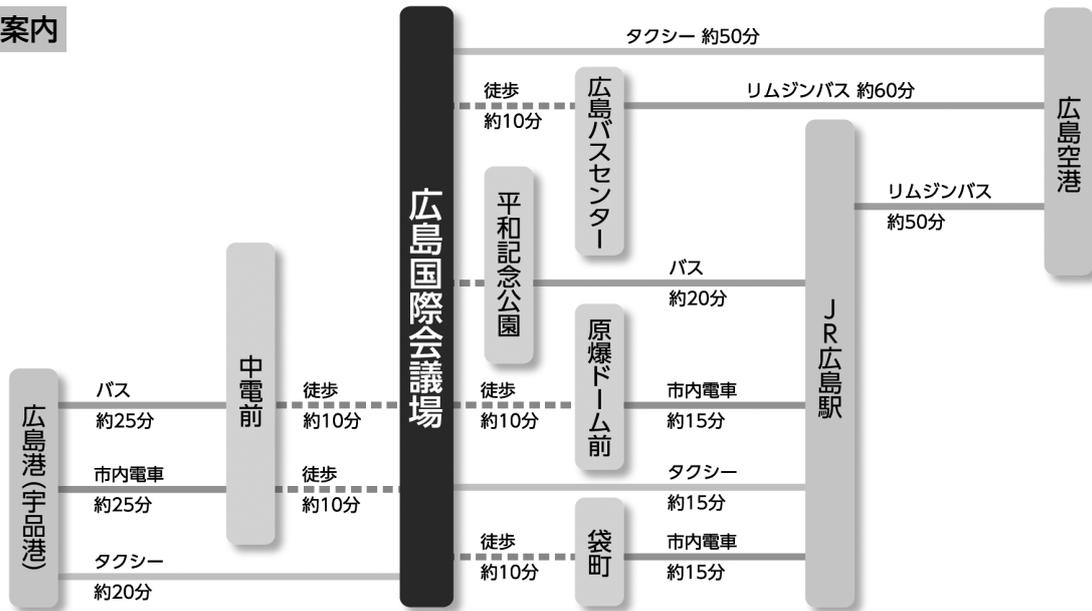
Time	International Conference Center Hiroshima					
	Room 1	Room 2	Room 3	Room 4	Posters	Exhibition
	Phoenix Hall	Himawari	Dahlia 1	Dahlia 2	Cosmos & Ran	Sakura
8:00						
9:00	9:00-11:15 S5 E Current status and countermeasures for antibiotic-resistant bacteria in Asian countries Shizuo Kayama Miki Kawada-Matsuo	9:00-11:15 S6 J Frontiers in Bacterial Ribosome Research: Structure, Translational Control, and Biological Functions Hideji Yoshida Tomohiro Miyoshi Supported by Research Center for GLOBAL and LOCAL Infectious Diseases	9:00-10:30 WS5 J Prediction-Driven Systems Bacteriology Through Metabolic Modeling: Theory and Practice Ryo Ozuru Yujiro Hirose	9:00-10:30 WS6 J Bacteriology learnt from each case Shinji Yamazaki Hiromi Nakamura	Setup	Exhibition
10:00						
11:00					Display	Exhibition
12:00		11:30-12:30 Luncheon Seminar 3 Sponsored by L8020 Council				
13:00	12:45-14:45 General Meeting Award Lecture					
14:00						
15:00	14:45-15:15 Educational Lecture Masaki Nakamura					
16:00	15:30-17:00 WS7 J Decoding Bacterial Physiology: A Biochemical Perspective Atsushi Taguchi Mikio Tanabe	15:30-17:00 WS8 J Selected Oral Presentations 1 Pathogenicity Kinnosuke Yahiro Tomoko Sumitomo	15:25-17:10 WS9 J/E Flash Talk 2			
17:00						
18:00					17:15-18:45 Presentation Discussion [Odd] 45 min [Even] 45 min	
19:00						
20:00						

Day 3: March 22 (Sun)

Time	International Conference Center Hiroshima				
	Room 1	Room 2	Room 3	Room 4	Exhibition
	Phoenix Hall	Himawari	Dahlia 1	Dahlia 2	Sakura
8:00					
9:00	9:00-11:30 J S7 Genome-wide insights into bacterial physiology and gene expression Teppei Morita Masatoshi Miyakoshi	9:00-11:30 J S8 Advancing Bacteriological Research through Macro- to Micro-Scale Structural Technologies Kazuki Kawahara Eiji Tamai	9:00-11:30 J S9 Board of Education research presentations by junior high school and high school students Michinaga Ogawa Takahito Toyotome	9:00-10:30 J WS10 Shaping Careers with Microbes Eiki Yamasaki Daisuke Nakane	Exhibition
11:00					
12:00	11:40-12:00 Award Ceremony for Outstanding Poster Presentations				
13:00	13:00-14:30 J WS11 From Helicobacter pylori to the Broader Helicobacter World: Current Insights and Future Directions Takako Osaki Emiko Rinbara	13:00-14:30 J WS12 Selected Oral Presentations 2 Taxonomy and epidemiology Hiroji Chibana Nobuhiko Nomura	13:00-14:30 J WS13 Wakate colosseum for bacteriology Junpei Fujiki Uki Kimura	13:00-15:00 E WS14 International students Azumi Tamura Aa Haeruman Azam	
14:00					
15:00	14:45-16:15 J ICD Seminar	14:45-16:15 J WS15 Selected Oral Presentations 3 Biodefense Yuki Kinjo Hitomi Mimuro	14:45-16:15 J WS16 Recent Advances in Mobile Genetic Elements Keiji Nakamura Jun Kurushima		
16:00					
17:00					
18:00					
19:00					
20:00					

アクセス / Access

交通のご案内



Access to Congress Venue

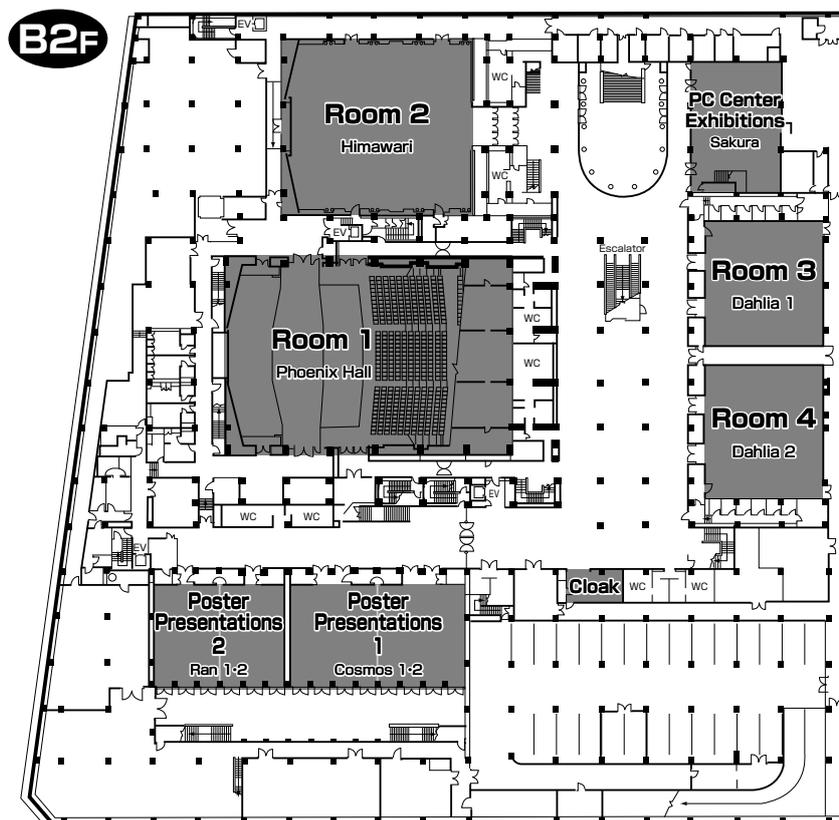
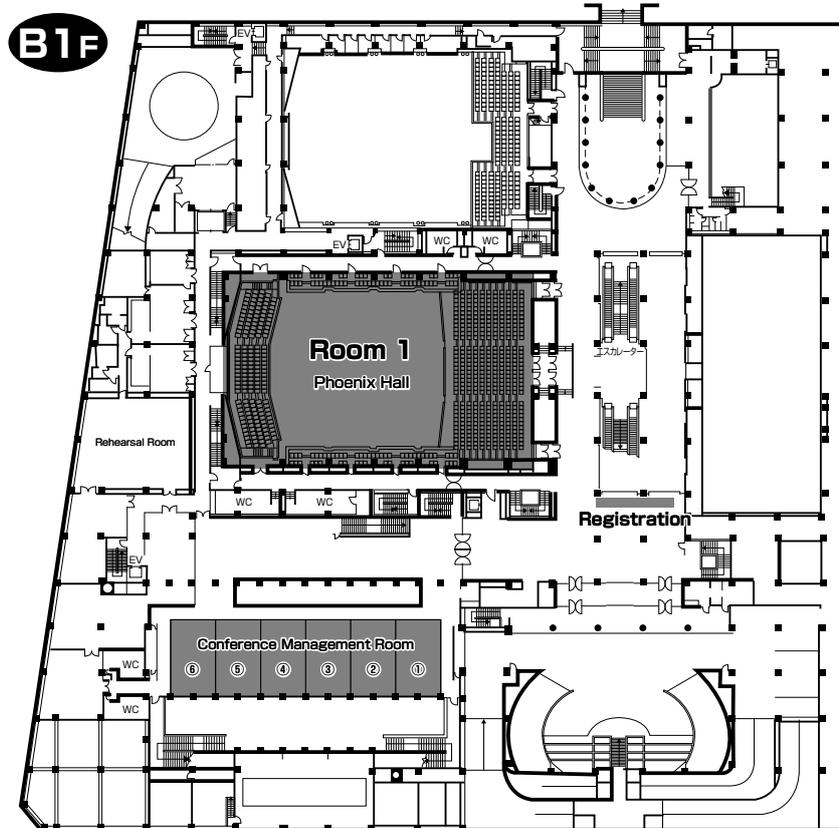


会場周辺図 / Venue Area Map



Floor Map

International Conference Center Hiroshima



Program

- General Meeting
- Award Lecture
- Special Lecture
- Symposium
- Workshop
- Educational Lecture
- Flash Talk
- Poster
- Luncheon Seminar

The 99th Annual Meeting of Japanese Society for Bacteriology

General Meeting

Saturday, March 21 12:45–14:45
Room 1 (Phoenix Hall)

Award Lecture

Saturday, March 21 12:45–14:45
Room 1 (Phoenix Hall)

Mechanistic Insights into Xenophagy Induction Against Group A *Streptococcus*

○Ichiro Nakagawa (Department of Microbiology, Kyoto University Graduate School of Medicine)

Special Lecture

SL Strengthening AMR Control in Japan: Surveillance, Research, and Global Collaboration at the Antimicrobial Resistance Research Center

Friday, March 20 13:00–14:30
Room 1 (Phoenix Hall)

Chair: Hitoshi Komatuzawa (Hiroshima University)

SL Strengthening AMR Control in Japan: Surveillance, Research, and Global Collaboration at the Antimicrobial Resistance Research Center

○Motoyuki Sugai (Japan Institute for Health Security)

Symposium

S1 New Frontiers in Infectious Disease Research through International Collaboration (co-hosted by Japanese Society for Bacteriology and AMED U.S.-Japan Cooperative Medical Sciences Program)

Friday, March 20 8:30–11:30
Room 1 (Phoenix Hall)

Conveners: Yukihiro Akeda (National Institute of Infectious Diseases)
Sohkichi Matsumoto (Niigata University)

S1-1 Physiological functions of lipoglycans in mycobacteria

○Yasu Morita (Dept. Microbiol., Univ. Mass. Amherst)

S1-2 Evolutionary trajectory of *Vibrio cholerae* and massive outbreaks of cholera, a climate-driven disease

○Munirul Alam (International Centre for Diarrheal Disease Research, Bangladesh)

S1-3 Rethinking CD4⁺ T cell-mediated protection against tuberculosis

○Shunsuke Sakai (IVReD, Hokkaido Univ.)

S1-4 *Vibrio cholerae* Epidemiologic and Genomic Surveillance in Congo: WASHmobile Cholera Outbreak Prevention Program

○Christine Marie George¹ (¹Dept. International Health, Program of Global Disease Epidemiology and Control, Johns Hopkins Bloomberg School of Public Health, ²Center for Tropical Diseases and Global Health, Université Catholique de Bukavu, Bukavu, Democratic Republic of the Congo, ³Div. Infectious Diseases, Dept. Internal Medicine, Univ. Utah Sch. Medicine, ⁴Dept. International Health, Program in Human Nutrition, Johns Hopkins Bloomberg Sch. Public Health, ⁵Bureau de l'Information Sanitaire, Surveillance Epidémiologique et Recherche Scientifique, Division Provinciale de la Santé Sud Kivu, Ministère de la Santé, Bukavu, Democratic Republic of the Congo, ⁶Fac. Medicine, Catholic Univ. Bukavu, Bukavu, Democratic Republic of the Congo, ⁷Univ. New Mexico Health Sciences Center)

S1-5 International Collaborative Research Initiated by Metabolic Studies of *S. pyogenes*

○Yujiro Hirose (Dept. Microbiol., Osaka Univ. Grad. Sch. Dent., UOsaka)

S1-6 Bacterial targeting of host nuclear functions

○Suzana P. Salcedo (Univ. Wisconsin-Madison, Pathobiological Sciences, Sch. Veterinary Medicine)

S2 Evolutionary dynamics of pathogens driven by genomic diversity, host adaptation, and drug resistance

Friday, March 20 9:00–11:30
Room 2 (Himawari)

Conveners: Yumi Matsuoka (Immunology Frontier Research Center, Osaka University)
Hiroki Takahashi (Medical Mycology Research Center, Chiba University)

S2-1

Adaptive genome evolution during host infection in pathogenic fungus *Aspergillus fumigatus*

○Hiroki Takahashi (MMRC., Chiba Univ.)

S2-2

Rapid and Integrated Bacterial Evolution Analysis unveils clinical risk of *Klebsiella pneumoniae*

○Toyotaka Sato^{1,2,3} (¹Lab. Vet. Hygiene., Sch. Vet. Med., Hokkaido Univ., ²Grad. Sch. Infect. Dis., Hokkaido Univ., ³One Health Research Center, Hokkaido Univ.)

S2-3

Plasmids at the Crossroads of One Health: A Genomic Framework for Tracking Antimicrobial Resistance

○Masato Suzuki (AMR Res. Ctr., Nat. Inst. Infect. Dis., JIHS)

S2-4

Staphylococcal Quorum Sensing in Disease: From Regulation to Pathogenesis

○Yumi Matsuoka (Cutaneous Allergy & Host Defense, IReC, U of Osaka)

S3 Model Bacteria at the Forefront of Microbiology –The Cutting Edge of Bacterial Growth and Survival Mechanisms–

Friday, March 20 13:00–15:00
Room 2 (Himawari)

Conveners: Daisuke Shiomi (Rikkyo University)
Shigeyuki Kakizawa (National Institute of Advanced Industrial Science and Technology)

S3-1

Analysis of gene Essentiality and non-essentiality in the model bacterium *Escherichia coli*

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

S3-2

Unexpected cellular behavior in *Escherichia coli* revealed by single-cell observation

○Setsu Kato (Grad. Sch. Integr. Sci. Life, Hiroshima Univ.)

S3-3

Deciphering fundamentals via analysis of DciA-mediated helicase loading in *Caulobacter crescentus*

○Shogo Ozaki, Shohei Sato, Keito Watanabe, Naoto Itani, Dengyu Wang, Nanato Kiyohara, Tsutomu Katayama (Dept. Mol. Biol., Grad. Sch. Pharm. Sci., Kyushu Univ.)

S3-4

Bacterial cargo delivery via quantal secretion

○Masanori Toyofuku^{1,2,3} (¹Inst. Lif. Environ. Sci., Univ. Tsukuba, ²TIAR, Univ. Tsukuba, ³MiCS, Univ. Tsukuba)

S3-5

Transcriptional control for infection establishment in *Vibrio parahaemolyticus*

○Eiji Ishii (Dept. Bact. Infect., RIMD, UOsaka)

S3-6

***Mycoplasma*: a model bacterium with a minimal genome**

○Shigeyuki Kakizawa (MolBis, AIST)

S4 Membrane Optimization: Evolutionary and Environmental Adaptations across Domains

Friday, March 20 14:45–16:45
Room 1 (Phoenix Hall)

Conveners: Takuya Shiota (Miyazaki University)
Yosuke Tashiro (Shizuoka University)

S4-1

Biosynthesis of archaeal membrane lipids through modified mevalonate pathways

○Hisashi Hemmi (Grad. Sch. Bioagr. Sci., Nagoya Univ.)

S4-2

Membrane diversification induced by polycyclic terpenoids

○Yosuke Hoshino^{1,2} (¹Sch. Environ. Studies, Nagoya Univ., ²Inst. Adv. Res., Nagoya Univ.)

S4-3

Membrane protein assembly system adapted to the evolution from bacteria to mitochondria

○Takuya Shiota¹, Daisuke Shiomi², Yuki Maruno², Yuka Abiru², Hsin Hui Shen³ (¹Front. Sci. Res. Cent., Univ. Miyazaki, ²Dept. Sci, Rikkyo Univ., ³Int. Grad. Sch. Agri. and Engin., Univ. Miyazaki, ⁴Dept. Materi. Sci. and Engin., Monash Univ.)

S4-4

Lipid biology in bacteria: Modulation of the fatty acid compositions of biological membranes

○Takuya Ogawa (Inst. Chem. Res., Kyoto Univ.)

S4-5**A mobile region derived factor that controls bacterial membrane dynamics**

○Yosuke Tashiro (Div. Appl. Chem. Biochem. Eng., Col. Eng., Shizuoka Univ.)

S5 Current status and countermeasures for antibiotic-resistant bacteria in Asian countries

Saturday, March 21 9:00–11:15

Room 1 (Phoenix Hall)

Conveners: Shizuo Kayama (Japan Institute for Health Security)

Miki Kawada-Matsuo (Hiroshima University)

S5-1**Antimicrobial Resistance (AMR) in Malaysia: Current Situation and One Health Evidence, with Insights from the Tricycle Project**

○Zuraifa Asrah Mohamad¹, SK Bakon¹, M Hassan¹, R Hashim¹, H Khalifa², W Hayashi², L Yu², S Kayama², M Sugai²

(¹Environmental Health Research Centre, Inst. Medical Research, National Inst. Health, Ministry of Malasia, ²Japan Institute for Health Security)

S5-2**Profile of Escherichia coli producing Extended-spectrum beta lactamase (ESBL-Ec) from clinical specimen: Surveillance of Indonesian Network on Antimicrobial Resistance 2022-2024**

○Eustachius Hagni Wardoyo^{1,2} (¹Microbiology Dept., Fac. Medicine and Health Sciences, Univ. Mataram, ²Surveillance of Indonesian Network on Antimicrobial Resistance (SINAR), Indoensian Association of Clinical Microbiologist (PAMKI))

S5-3**Comprehensive Antimicrobial Resistance Trends Across Healthcare Settings in South Korea**

○Eun-Jeong Yoon (Div. Antimicrobial Resistance, Center for Infectious Disease Research, Korea, National Inst. Health)

S5-4**Unraveling AMR landscape in Thailand: Linking mechanistic insights, environmental drivers, and sustainable solution**

○Nisanart Charoenlap^{1,2}, Suleeporn Poomchuchit¹, Parinya Tipanyo¹, Pitthawat Grittanaanun², Yaiprae Chatree², Paiboon Vattanaviboon^{1,2}, Skorn Mongkolsuk^{1,2} (¹Lab. Biotechnology, Chulabhorn Research Inst., ²Applied Biological Sciences: Environmental Health, Chulabhorn Grad. Inst.)

S5-5**Epidemiological Trends and National Countermeasures for Antimicrobial-Resistant Bacteria in Vietnam**

○Nguyen Tra Mi Le¹, Quang Minh Ho² (¹Univ. Medicine and Pharmacy at Ho Chi Minh City, ²Hospital for Tropical Diseases, Ho Chi Minh City)

S6 Frontiers in Bacterial Ribosome Research: Structure, Translational Control, and Biological Functions

Saturday, March 21 9:00–11:15

Room 2 (Himawari)

Conveners: Hideji Yoshida (Osaka Medical and Pharmaceutical University)

Tomohiro Miyoshi (Research Center for GLOBAL and LOCAL Infectious Diseases, Oita University)

S6-1**Shotgun proteomics to elucidate translation dynamics**

○Tatsuya Niwa (CBC, IIR, Science Tokyo)

S6-2**Structural details of ribosomal translation in bacteria**

○Takehito Tanzawa (IPR, UOsaka)

S6-3**Selective modification of tRNA 3' ends by toxSAS toxins for translational self-inhibition**

○Tatsuaki Kurata^{1,2}, Gemma Atkinson², Vasili Hauryliuk^{2,3,4}

(¹PRI, RIKEN, Japan, ²Dept. Exp. Med. Sci., Lund Univ., Sweden, ³Inst. Tech., Univ. Tartu, Estonia, ⁴SciLife Lab, Sweden)

S6-4**Structural and Functional Studies on Quality Control and Regulatory Mechanisms of Protein Synthesis**

○Kosuke Ito (Niigata Univ., Fac. Sci. / Grad. Sch. Sci. and Tech.)

S6-5**A novel antimicrobial peptide that targets ribosomal condensates**

○Hirofumi Toda (IIIS, U of Tsukuba)

S6-6**Bacterial survival strategy via ribosomal hibernation**

○Hideji Yoshida¹, Yasushi Maki¹, Shou Furuike¹, Masami Ueta², Chieko Wada², Akira Wada² (¹Dept. Phys., Osaka Med. Pharm. Univ., ²Biol. Inf. Res., Yoshida Biol. Lab.)

S7 Genome-wide insights into bacterial physiology and gene expression

Sunday, March 22 9:00–11:30
Room 1 (Phoenix Hall)

Conveners: Teppei Morita (Kyorin University)
Masatoshi Miyakoshi (Tsukuba University)

S7-1

Investigating Bacterial Pathogenesis Using Non-Mammalian Infection Models

○Chikara Kaito, Kinuka Hongu, Ayano Kuriu, Natsuki Atsuta, Kazuya Ishikawa, Kazuyuki Furuta (Div. Molecular Biology, Grad. Sch. Medicine, Dentistry, and Pharmaceutical Sciences, Okayama Univ.)

S7-2

tRNA-Protein Modules that Overcome RT-Based Bacterial Defense

○Kotaro Kiga, Aa Haeruman Azam, Kotaro Chihara (Dept. Drug Dev., Natl. Inst. Infect. Dis., Japan Inst. Health Secur.)

S7-3

Whole-cell modeling of *Escherichia coli* from genomic sequence

○Kazunari Kaizu^{1,2} (¹BDR, RIKEN, ²ExCELLS, NINS)

S7-4

In vitro transcriptome formation assay as a tool for molecular biology

○Kei Fujiwara (Dept. Biosci. Info., Keio Univ.)

S7-5

Understanding Bacterial Function from Genome Regulatory Networks of Transcription Factors

○Tomohiro Shimada (Dept. Agri. Chem., Sch. Agri., Meiji Univ.)

S7-6

Genome-wide analysis of the bacterial RNA-RNA interactome

○Takeshi Kanda^{1,2}, Masatoshi Miyakoshi³ (¹Dept. Microbiol., Biocenter, Wuerzburg Univ., Germany, ²HIRI, Helmholtz Ctr. Infect. Res., Germany, ³Inst. Med., Univ. Tsukuba)

S8 Advancing Bacteriological Research through Macro- to Micro-Scale Structural Technologies

Sunday, March 22 9:00–11:30
Room 2 (Himawari)

Conveners: Kazuki Kawahara (Osaka University)
Eiji Tamai (Matsuyama University)

S8-1

Structural and functional analysis of microbial proteins based on X-ray crystallography

○Katsuki Takebe¹, Shuhei Miyakawa², Hiroko Kobayashi³, Masanobu Nakata⁴ (¹Dept. Dent. Pharm., Grad. Sch. Med. Dent. Pharm. Sci., Okayam Univ., ²Grad. Sch. Pharm. Sci., Univ. Osaka, ³Sch. Pharm., Nihon Univ., ⁴Dept. Oral Microbiol., Grad. Sch. Med. Dent., Kagoshima Univ.)

S8-2

High-resolution cryogenic electron microscopy analysis of bacterial pili

○Kazuki Kawahara^{1,2}, Hiroya Oki³, Shigeaki Matsuda³, Tetsuya Iida^{2,3}, Shota Nakamura^{2,3} (¹Grad. Sch. Pharm. Sci., Univ. Osaka, ²CiDER, Univ. Osaka, ³RIMD, Univ. Osaka)

S8-3

Structural and functional insights into bacterial antimicrobial transport systems

○Satomi Inaba-Inoue (KEK, IMSS, SBRC)

S8-4

Functional dynamics revealed by NMR

○Takumi Ueda (Grad. Sch. Pharm. Sci. Univ. Osaka)

S8-5

Recent trends in protein structure prediction and computational chemistry

○Yoshitaka Moriwaki (Med. Res. Lab., Ins. Integr. Res., Science Tokyo)

S8-6

The Future of Bacteriology Pioneered by Microphysiological Systems

○Marie Shinohara^{1,2} (¹Inst. Industrial Science, The Univ. Tokyo, ²Dept. Bioeng., Sch. Eng., UTokyo)

S9 Research Presentations by Junior High School and High School Students

Sunday, March 22 9:00–11:30
Room 3 (Dahlia 1)

Conveners: Michinaga Ogawa (Japan Institute for Health Security)
Takahito Toyotome (International University of Health and Welfare)

S9-1

Effects of Various Chemical Substances on the Behavior of Slime Molds

○Hikari Takahana, Yuta Okui, Mizuki Kawashita, Hinata Seki (Nanao High School)

S9-2

Effects of Sugar Types on Microbial Fuel Cells

○Rurika Nakayama, Tomoki Kitaguchi, Miki Shiotani, Masaya Seguchi (Nanao High School)

S9-3

Effects of Microplastics on the Growth of *Escherichia coli*

○Mihiro Satake, Takaharu Oshikiri, Sota Takada, Manaka Yamamoto (Nanao High School)

S9-4

Antibacterial Potential of *Houttuynia cordata* for Use in Evacuation Shelters

○Rina Teramoto, Yuna Iwane, Haruka Nonaka (Kumamotokita Highschool)

S9-5

Bacteria on smartphone/tablet touchscreens: its comparison with fingers

○Yuto Ikarashi¹, Nana Ito², Naotaro Oda³, Yuki Kato⁴, Anna Wakui^{4,5}, Takuichi Sato⁴ (¹Toyano Junior High Sch., Niigata City, ²Yorii Junior High Sch., Niigata City, ³Ikarashi Junior High Sch., Niigata City, ⁴Div. Clin. Chem., Niigata Univ. Grad. Sch. Health Sci., ⁵Dept. Med. Tech., Niigata Univ. Health Welfare)

S9-6

Differences of the number of resident skin bacteria in cheek areas

○Maki Ishii (Tokyo Metropolitan. Hakuo Jr.&Sr. High Sch.)

S9-7

Hair degradation by keratin-producing bacteria

○Nanoha Takahashi (YSFH)

S9-8

Plant extracts that inhibit *Pseudomonas aeruginosa* biofilm formation

○Hinako Numoto¹, Marina Hirai¹, Kokomi Iwabu¹, Soichiro Katayama¹, Soma Seno¹, Mei Takao¹, Satoka Senoura², Miwa Kubo³, Keiji Murakami² (¹Syujitu High Sch., ²Dept. Clin. Nutri. Fac. Health. Sci. Technol., Kawasaki Univ. Med. Welfare, ³Fac. Pharmaceutical Sci., Tokushima Bunri Univ.)

Workshop

WS1 Iron at the center of diverse bacterial interactions

Friday, March 20 9:00–10:30
Room 3 (Dahlia 1)

Conveners: Kazuya Ishikawa (Okayama University)
Masayuki Tsuzuki (Kochi University)

WS1-1

Heme acquisition system of plant pathogenic bacteria from host plants

○Kazuya Ishikawa¹, Risa Aoki², Saki Yamaguchi¹, Taichi Nishimura², Kazuyuki Furuta¹, Chikara Kaito¹ (¹Grad. Sch. Med. Dent. Pharm., Okayama Univ., ²Fac. Pharm., Okayama Univ.)

WS1-2

Contribution of two ferric uptake regulator to virulence in *Ralstonia pseudosolanacearum*

○Masayuki Tsuzuki (Fac. Agric. and Marine Sci., Kochi Univ.)

WS1-3

Rhizobacteria-plant secondary metabolite interactions in plant iron nutrition

○Masayoshi Hashimoto (Fac. Agri., Shizuoka Univ.)

WS1-4

Mechanism of intracellular H₂S-dependent activation of iron uptake in *Escherichia coli*

○Shouta Nonoyama, Shinji Masuda (Dept. Life Sci. Tech., Inst. Science Tokyo)

WS1-5

Response mechanisms to iron limitation in *Vibrio parahaemolyticus*

○Tomotaka Tanabe, Tatsuya Funahashi (Lab. Hyg. Chem., Col. Pharm. Sci., Matsuyama Univ.)

WS2 Frontiers in Female Reproductive Microbiome Research

Friday, March 20 9:00–10:30
Room 4 (Dahlia 2)

Conveners: Masahiro Ito (Kitasato University)
Kim Yun-Gi (Kitasato University)

WS2-1

Characteristics of the Vaginal Microbiome and Their Relationship to Health and Disease

○Masahiro Ito (Dept. Microbiol. Sch. Pha. Kitasato Univ.)

WS2-2

The Etiology of Endometriosis and the Involvement of Bacteria

○Ayako Muraoka (Nagoya Univ. Hospital)

WS2-3

Chorioamnionitis with *Ureaplasma* in Preterm Delivery

○Itaru Yanagihara (Dept. Dev. Med., Res. Inst., Osaka Women's and Children's Hosp.)

WS2-4

Sensing of extracellular vesicle nucleic acids from vaginal bacteria promotes ovarian cancer

○Eri Inami¹, Akira Yokoi¹, Kosuke Yoshida¹, Yukari Nagao¹, Masami Kitagawa¹, Takao Yasui², Shunsuke Kitajima³, Hiroaki Kajiyama¹ (¹Dept. OB/GYN, Grad. Sch. Med., Nagoya Univ., ²Sch. Life Sci. & Tech., Tokyo Inst. Sci., ³Cancer Immunotherapy Project, CPM Center, JFCR)

WS2-5

Prospects for perinatal management and child health through understanding the maternal microbiome

○Shinji Tanigaki¹, Tomoko Hanawa², Noriaki Oguri³, Jun Miyoshi³, Chie Kobayashi¹, Yuri Ozawa⁴, Toshihiko Kimura⁴, Masami Narita⁴, Tadakazu Hisamatsu³ (¹Dept. Obstet. Gynecol., Kyorin Univ. Sch. Med., ²Dept. General Med, Kyorin Univ. Sch. Med., ³Dept. Gastroenterol Hepatol, Kyorin Univ. Sch. Med., ⁴Dept. Peds, Kyorin Univ. Sch. Med.)

WS3 Frontiers in Microbial Control Research

Friday, March 20 15:15–16:45
Room 2 (Himawari)

Conveners: Akira Takahashi (Tokushima University)
Tomomi Kuwahara (Kagawa University)

WS3-1

Wavelength Dependence of Pathogenic Microorganism Control by Light Irradiation

○Kazuaki Mawatari, Yasuko Ishikawa, Sae Toda, Mina Matsubara, Takashi Uebanso, Akira Takahashi (Dept. Prevent. Environ. Nutr., Ins. Biomed. Sci., Tokushima Univ. Grad. Sch.)

WS3-2

Development of toxin-targeting synthetic polymer nanoparticles for enteric infections

○Takeshi Yamamoto¹, Yu Hoshino², Haruyuki Imaohji³, Tomomi Kuwahara³, Hiroyuki Koide⁴, Yoshiko Miura⁵, Yoshitoshi Ogura¹ (¹Dept. Infect. Med., Sch. Med., Kurume Univ., ²Dept. Chem. Biochem., Grad. Sch. Eng., Kyushu Univ., ³Dept. Mol. Microbiol., Kagawa Univ. Fac. Med., ⁴Lab. Med. Biochem., Sch. Pharm. Sci., Univ. Shizuoka, ⁵Dept. Chem. Eng., Grad. Sch. Eng., Kyushu Univ.)

WS3-3

Editing or Eradicating? Phages as Bacterial Population Controllers

○Hiroki Ando (Arrowsmith Inc.)

WS3-4

The Potential of Bacteriocins in the Era of Antimicrobial Resistance

○Miki Kawada-Matsuo¹, Saki Nishihama^{1,2}, Hitoshi Komatsuzawa¹ (¹Dept. Bacteriology, Grad. Sch. Biomed and Health Sci., Hiroshima Univ., ²Dept. Bio. Endodontics, Grad. Sch. Biomed and Health Sci., Hiroshima Univ.)

WS5 Prediction-Driven Systems Bacteriology Through Metabolic Modeling: Theory and Practice

Saturday, March 21 9:00–10:30
Room 3 (Dahlia 1)

Conveners: Ryo Ozuru (Fukuoka University)
Yujiro Hirose (Osaka University)

WS5-1

Developing a genome-scale metabolic model of *Streptococcus pyogenes* and its subsequent applications

○Yujiro Hirose (Dept. Microbiol., Osaka Univ. Grad. Sch. Dent., UOsaka)

WS5-2

Metabolic Modeling Reveals Cross-Species Interactions Between *Leptospira* and Environmental Bacteria

○Michinobu Yoshimura (Dept. Microbiol. & Immunol., Fac. Med. Fukuoka Univ.)

WS5-3

Kinetic modeling of central metabolic pathways in *Escherichia coli*

○Yu Matsuoka (Dept. Biosci. Bioinform., Kyutech)

WS6 Bacteriology learnt from each case

Saturday, March 21 9:00–10:30
Room 4 (Dahlia 2)

Conveners: Shinji Yamasaki (Osaka Metropolitan University)
Hiromi Nakamura (Osaka Institute of Public Health)

WS6-1

Campylobacter food poisoning cases caused by small-scale water supply system

○Hiroko Takahashi, Rui Endo, Shun Hasegawa, Takahiro Shimoda, Hiroyuki Tsukagoshi, Nobuhiro Saruki (Gunma Pref. Inst. Public Health and Environ. Sci.)

WS6-2

Genomic Analysis of *Bacillus cereus* group strains Isolated from Food Poisoning Cases

○Tsuyoshi Kudeken, Tetsuya Kakita, Haruno Taira, Morimi Teruya, Makoto Ohnishi (Res. Ctr. Infect. Dis., Okinawa Pref. Inst. Health and Env.)

WS6-3

Paradigm Shift in Molecular Epidemiology of TB Enabled by High Discriminatory Genome Analysis

○Takayuki Wada^{1,2} (¹Dept. Microbiol. Grad. Sch. Hum. Life Ecol., Osaka Metro. Univ., ²Osaka Intl. Res. Ctr. Infect. Dis., Osaka Metro. Univ.)

WS6-4

Pertussis upsurge and spreading of macrolide-resistant *Bordetella pertussis* in Japan

○Nao Otsuka (Dept. BacII., Natl. Inst. Infect. Dis.)

WS6-5

Strategy or invasive *Streptococcus pyogenes* infections, especially due to M1UK strains

○Ken Kikuchi (Dept. Infect. Dis., Tokyo Women's Med. Univ.)

WS7 Decoding Bacterial Physiology: A Biochemical Perspective

Saturday, March 21 15:30–17:00
Room 1 (Phoenix Hall)

Conveners: Atsushi Taguchi (The University of Osaka)
Mikio Tanabe (Struct. Biol. Res. Cen, Inst. Mat. Struct. Sci. KEK)

WS7-1

Mechanisms of Extracellular Iron Sensing in Gram-negative Bacteria

○Tatsuhiko Yokoyama¹, Ryoji Miyazaki², Takehiro Suzuki³, Naoshi Dohmae³, Hiroki Nagai¹, Tomoya Tsukazaki², Tomoko Kubori¹, Yoshinori Akiyama⁴ (¹Grad. Sch. Med., Gifu Univ., ²Grad. Sch. Sci. Tech., NAIST, ³CSRS, RIKEN, ⁴Inst. Life Med. Sci., Kyoto Univ.)

WS7-2

Peptide-based inhibitors targeting the functional sites of the A and B subunits of Shiga toxin

○Miho Takahashi (Dept. Med. Life Syst., Fac. Life Med. Sci., Doshisha Univ.)

WS7-3

Biochemistry and Applications of Proteins for Reduced Phosphorus Compound Metabolism

○Ryuichi Hirota (Grad. Sch. Integr. Sci. Life, Hiroshima Univ.)

WS7-4

Structural Basis of *E. coli* MurJ Inhibition by Phage-Derived Lytic Peptides

Hidetaka Kohga¹, Kaito Hosoda¹, Napathip Lertpreedakorn¹, Ryoji Miyazaki¹, Sixian Wu¹, Hiroyuki Tanaka¹, Yutaro S. Takahashi¹, Kunihito Yoshikaie¹, Yutetsu Kuruma², Hideki Shigematsu³, Takaharu Mori⁴, ○Tomoya Tsukazaki¹ (¹NAIST, ²JAMSTEC, ³Spring-8, JASRI, ⁴Fac. Sci., Tokyo Univ. Sci.)

WS7-5

Molecular analysis of a novel prokaryotic transporter involved in cell surface synthesis

○Atsushi Taguchi (CiDER, UOsaka)

**WS8 Selected Oral Presentations 1
Pathogenicity**

Saturday, March 21 15:30–17:00
Room 2 (Himawari)

Conveners: Kinnoyuke Yahiro (Kyoto Pharmaceutical
University)
Tomoko Sumitomo (Tokushima University)

WS8-1/P1-116

Construction of the gene knockout system for *Candida auris* and identification of the virulent factor

○Kazushi Hashimoto, Hinako Wada, Ni Anggareni, Xinyue Chen, Kanami Orihara, Susumu Kajiwaru (Dept. Life Sci. & Tech., Sch. Life Sci. & Tech., Inst. Science Tokyo)

WS8-2/P1-119

Exacerbation mechanisms of bacterial infection through inflammasome-mediated inflammatory responses

○Hideki Hara, Yasuyuki Matsuda, Hajime Yamauchi (Dept. Microbiol. Immunochem., Asahikawa Med. Univ.)

WS8-3/P1-120

Function analysis of pneumococcal protease in intrinsic hierarchical autophagy

○Sayaka Shizukuishi, Michinaga Ogawa, Yukihiro Akeda (Bacteriol. I, Nat. Inst. Infect. Dis., JIHS)

WS8-4/P1-134

Suppression of osteoclast differentiation by *K. pneumoniae*-derived extracellular vesicles (KpEVs)

○Hitoshi Tsugawa^{1,2}, Touya Toyomoto¹, Shogo Tsubaki¹, Daisuke Sakai³, Jin Imai^{2,4} (¹TranSiR, Div. Host Defense Mech., Tokai Univ., Sch. Med., ²The Inst. Med. Sci., Tokai Univ., ³Dep. Ortho. Sur., Tokai Univ., Sch. Med., ⁴Dep. Clin. Heal. Sci., Tokai Univ., Sch. Med.)

WS8-5/P1-108

Elucidation of the Mechanisms Underlying *Klebsiella* Intestinal Colonization in Mono-Colonized Mice

○Haruka Fukamachi¹, Shintaro Maeno², Itsuki Taniguchi³, Yasuhiro Gotoh⁴, Hirobumi Morisaki¹, Nobuo Okahashi¹, Tomoki Makiura¹, Tetsuya Hayashi³, Hirotaka Kuwata¹ (¹Dept. Oral Microbiol. Immunol. Sch. Dent., Showa Med. Univ., ²Org. Res. Ini., Yamaguchi Univ., ³Dept. Bacteriol., Grad. Sch. Med., Sci., Kyushu Univ., ⁴Advanced Genomics Center. National Institute of Genetics)

WS8-6/P1-146

Gaining a mechanistic insight into chronic infection by *S. Paratyphi C* in mice

○Satoshi Takayama¹, Masatomo Morita², T Hoan Pham¹, Toshio Kodama¹, Hirotaka Hiyoshi¹ (¹Dept. Bacteriol., Ins. Trop. Med., Nagasaki Univ., ²Dept. Bacteriol. I, Natl. Inst. Infect. Dis.)

WS8-7/P1-170

Stratifying pneumococcal infection outcomes by initial aspiration dynamics in mice

○Takashi Saito, Momoko Kobayashi, Zhengkuan Sun, Masaya Yamaguchi (National Inst. Biomedical Innovation, Health and Nutrition (NIBN))

WS10 Shaping Careers with Microbes

Sunday, March 22 9:00–10:30
Room 4 (Dahlia 2)

Conveners: Eiki Yamasaki (National Institute of Health Sciences)
Daisuke Nakane (UEC)

WS10-1

A microbiology researcher's career at a pharmaceutical company

○Motoyasu Onishi (Lab. Drug Discovery and Disease Research, Shionogi & Co., Ltd.)

WS10-2

'For people and the planet to be healthy' Corporate researchers envisioning microbiology's future

○Takekazu Okumura (Microbiol. Research Dept. Yakult Cent. Inst.)

WS10-3

Working at a local Public Health Institute -OIPH edition-

○Hiromi Nakamura (Bacteriol. Sec., OIPH)

WS10-4

High School Science Teacher Living Between Inquiry and Research, Still Wanting That Student Wow

○Fumi Kido (Tokyo Metropolitan Chofu Kita High School)

WS10-5

An Introduction to the R&D Market for Breaking Free from Information Disadvantage

○Yohei Kumagai (tayo., inc.)

**WS11 From *Helicobacter pylori* to the Broader
Helicobacter World: Current Insights and Future
Directions**

Sunday, March 22 13:00–14:30
Room 1 (Phoenix Hall)

Conveners: Takako Osaki (Kyorin University)
Emiko Rimbara (Japan Institute for Health
Security)

**WS11-1
Current Insights into *Helicobacter cinaedi* Infection and
Future Perspectives**

○Hideki Araoka (Dept. Infect. Dis. and Clin. Lab., Toranomon
Hosp.)

**WS11-2
Various Effects of Enterohepatic *Helicobacter* infection
in Laboratory Mice**

○Hitoki Yamanaka (Div. Anim. Res., Res. Ctr. Adv. Sci. Technol.,
Shinshu Univ.)

**WS11-3
Gastric *Helicobacter* species infection of animal origin**

○Emiko Rimbara (Bacteriology II, NIID, JIHS)

**WS11-4
A base-excising restriction enzyme from *H. pylori*
induces gastric cancer-associated mutations**

○Masaki Fukuyo¹, Noriko Takahashi², Katsuhiko Hanada³, Ken
Ishikawa⁴, Koji Yahara⁵, Hideo Yonezawa^{2,6}, Naoki Osada⁷,
Atushi Kaneda¹, Ikuo Uchiyama⁸, Takako Osaki², Ichizo
Kobayashi² (¹Dept. Mol. Oncol., Grad. Sch. Med., Chiba Univ.,
²Dept. Infect. Dis., Sch. Med., Kyorin Univ., ³Clin. Eng. Res. Ctr.,
Fac. Med., Oita Univ., ⁴Dept. Cell Biol., Inst. Life Sci., Kurume
Univ., ⁵Antimicrob. Resist. Res. Ctr., NIID, ⁶Dept. Microbiol.,
Tokyo Dent. Coll., ⁷Grad. Sch. Inf. Sci. Technol., Hokkaido
Univ., ⁸Lab. Genome Inf., NIBB, ⁹Res. Inst. Micro-Nano
Technol., Hosei Univ.)

**WS11-5
Evolutionary Adaptation and Persistent Infection of
*Helicobacter pylori***

○Hitomi Mimuro (RCGLID, Oita Univ.)

**WS12 Selected Oral Presentations 2
Taxonomy and epidemiology**

Sunday, March 22 13:00–14:30
Room 2 (Himawari)

Conveners: Hiroji Chibana (Medical Mycology Research
Center, Chiba University)
Nobuhiko Nomura (Tsukuba University)

**WS12-1/P1-018
Genome analysis of EIEC reveals spreading conjugative
virulence plasmids and emerging lineages**

○Kazuhisa Okada¹, Warawan Wongboot², Amonrattana
Roobthaisong¹, Tetsuya Iida³, Shigeyuki Hamada¹ (¹RCC-ERI,
RIMD, Osaka Univ., ²Thai NIH, ³Dept. Bacterial. Infect., RIMD,
Osaka Univ.)

**WS12-2/P1-020
Survey of co-infection with *Vibrio cholerae* O1 in
Kolkata, India**

○Keinosuke Okamoto^{1,2}, Eizo Takahashi^{1,3}, Shin-ichi Miyoshi¹,
Sadayuki Ochi³, Dutta Shanta¹, Mukhopadhyay Asish¹, Kanungo
Suman¹, Daisuke Motooka⁴, Shota Nakamura⁴, Tetsuya Iida^{2,4}
(¹Colla. Res. Cen. Okayama Univ. Infect. Dis., Okayama Univ.,
²Dept. Bact. Infect., Res. Ins. Micro. Dis., Osaka Univ., ³Fac.
Pharm. Sci., Yokohama Univ. Pharm., ⁴Dept. Infect. Meta., Res.
Ins. Micro. Dis., Osaka Univ.)

**WS12-3/P1-027
Genomic analysis of *Klebsiella oxytoca* complex from the
nationwide JARBS-GNR surveillance, 2019-20**

○Yo Sugawara¹, Wataru Hayashi¹, Ikue Hayashi^{1,2}, Shaheem
Elahi¹, Hui Zuo¹, Liansheng Yu¹, Kohei Kondo¹, Yukari Sato¹,
Natsumi Kawahara³, Sayoko Kawakami¹, Koji Yahara¹, Shizuo
Kayama¹, Motoyuki Sugai¹ (¹Antimicrob. Res. Ctr., Natl. Inst.
Infect. Dis., Japan Inst. Health Security, ²Grad. Sch. Biomed.
Health Sci., Hiroshima Univ., ³Hamanomachi Hosp.)

**WS12-4/P1-021
Genome analysis of macrolide-resistant *B. pertussis* that
became highly prevalent in 2025 in Japan**

○Shintaro Hirai, Chizuko Kimura, Hiroto Shinomiya (Ehime
Prefectural Inst. Public Health and Environmental Science)

WS12-5/P1-028

Genomic surveillance identifies potential transfer of antimicrobial-resistant foodborne pathogens

○Norikazu Kitamura¹, Hiroto Shinomiya², Michiko Kawanishi³, Noriko Konishi⁴, Kenji Ohya⁵, Haruyoshi Tomita^{6,7}, Yukiko Asano², Chizuko Kimura², Hideto Sekiguchi³, Manao Ozawa⁸, Kanako Ishihara⁹, Jun Kurushima⁶, Koichi Tanimoto⁶, Takahiro Nomura⁷, Yusuke Hashimoto⁷, Foodborne AMR Research Group of Public Health Institutes, Tetsuo Asai¹⁰, Haruo Watanabe, Yo Sugawara¹, Koji Yahara¹, Motoyuki Sugai¹ (¹AMR Res. Ctr., NIID, JIHS, ²Ehime Pref. Inst. Pub. Health Env. Sci., ³Vet. AMR Ctr., Natl. Vet. Assay Lab., MAFF, ⁴Dept. Microbiol., Tokyo Met. Inst. Pub. Health, ⁵Div. Microbiol., Natl. Inst. Health Sci., ⁶Lab. Bact. Drug Resist., Grad. Sch. Med., Gunma Univ., ⁷Bacteriol., Grad. Sch. Med., Gunma Univ., ⁸Assay Div. I, Natl. Vet. Assay Lab., MAFF, ⁹Coop. Dept. Vet. Med, Tokyo Univ. Agri. Technol., ¹⁰United Grad. Sch. Vet. Sci., Gifu Univ.)

WS12-6/P2-009

Genomic analysis of STEC contamination and pathogenic potential in the upper Oyodo River

○Shunsuke Iriguchi¹, Ryutarō Matsuyama², Miki Okuno¹, Soichiro Tamai³, Yusuke Ito⁴, Susumu Takemoto⁴, Yoshitoshi Ogura¹, Yoshihiro Suzuki^{2,3,5} (¹Dept. Infectious Medicine, Sch. Med., Kurume Univ., ²Dept. Eng., Grad. Sch. Eng., Univ. Miyazaki, ³Dept. Env. Res. Sci., Agr. Eng. Grad. Sch., Univ. Miyazaki, ⁴KenKan Consultants Co., Ltd, ⁵Dept. Civ. Env. Eng., Fac. Eng., Univ. Miyazaki)

WS12-7/P1-024

Occurrence and genomic features of *Escherichia albertii* in environmental water and raccoons in Japan

○Atsushi Hinenoya¹, Rin Tagami², Sharda Prasad Awasthi^{1,3,4}, Bingting Xu¹, Noritoshi Hatanaka^{1,2,3,4}, Shinji Yamasaki^{1,2,3,4} (¹Grad. Sch. Vet. Sci., Osaka Metrop. Univ., ²Sch. Life Environ., Osaka Pref. Univ., ³AHSRI, Osaka Metrop. Univ., ⁴OIRCID, Osaka Metrop. Univ.)

WS13 Wakate colosseum for bacteriology

–Young bacteriological research for the future

Sunday, March 22 13:00–14:30
Room 3 (Dahlia 1)

Conveners: Jumpei Fujiki (Rakuno Gakuen University)
Uki Kimura (Tottori University)

WS13-1

Autophagy and morphological changes of *Trichosporon asahii* under a nitrogen-limited conditions

○Mei Nakayama, Yasuhiko Matsumoto, Sanae Kurakado, Takashi Sugita (Dept. Microbiol., Meiji Pharm. Univ.)

WS13-2

Prebuilt and On-Demand Phage Strategies for Personalized Treatment of Drug-Resistant *E. coli*

○Yuki Tomari^{1,2}, Shinjiro Ojima¹, Satoshi Tsuneda², Kotaro Kiga^{1,2} (¹Dept. Drug Dev., Natl. Inst. Infect. Dis., ²Dept. Life Sci. Med. Biosci., Sch. Adv. Sci. Eng., Waseda Univ.)

WS13-3

Evolutionary Adaptation of Companion Animal-Derived MRSA

○Manami Tsunoi^{1,2}, Junzo Hisatsune^{2,3,4}, Keita Iyori⁵, Shoko Kutsuno², Kasumi Kuroki², Takaya Segawa², Yasuhisa Iwao², Koji Yahara², Yo Sugawara², Yumi Kanegae⁶, Motoyuki Sugai² (¹Grad. Sch. Med., Jikei Univ. Sch. Med., ²AMRRC., NIID., JIHS, ³Dept. Antimicrob. Resist., Grad. Sch. Biomed. Health Sci., Hiroshima Univ., ⁴Proj. Res. Center for Nosocomial Infect., Hiroshima Univ., ⁵Isec. Inc., Bacteriol. Testing Div., ⁶Core Res. Facil., Res. Cent. Med. Sci., Jikei Univ. Sch. Med.)

WS13-4

Two poles are better than one: why short and bipolar flagella win in viscous worlds

○Moyu Nagasaka¹, Eli Cohen², Morgan Beeby², Daisuke Nakane¹ (¹Dept. Eng. Sci., Grad. Sch. Informatics & Eng., Univ. Electro-Communications, ²Dept. Life Sci., Imperial Coll. London)

WS13-5

The unicellular cyanobacterium *Synechocystis* sp. LKSZ1 performs nitrogen fixation

○Leonardo Ken Okumura, Shinji Masuda (Dept. LST., Sch. LST., Science Tokyo)

WS14 international students

Sunday, March 22 13:00–15:00
Room 4 (Dahlia 2)

Conveners: Azumi Tamura (Japan Institute for Health Security)

Aa Haeruman Azam (Japan Institute for Health Security)

WS14-1

Environmental Cues Regulate the Motility and Biofilm Building in *Alcanivorax*

○Shufeng Zhao (Grad. Sch. Sci. Technol., Univ. Tsukuba)

WS14-2

Biopolymer-stabilized metal nanoparticles for oral antibiofilm

○Xuefei Cheng¹, Takafumi Miyazaki², Yoshiaki Kamikawa³, Hidenobu Senpuku¹ (¹Dept. Microbiol. Immunol., Dent., Sch. St Matsudo, Nihon Univ., ²Pikasshu, ³Sch. Dent., Kagoshima Univ.)

WS14-3**Plasmid-Mediated Dissemination of *bla*_{CTX-M-55} in Poultry-Associated *Escherichia coli***

○Pilirani Chisembe¹, Duc Dao¹, Daraden Vang¹, Yohei Kobayashi², Masato Suzuki³, Njunga Gilson⁴, Nkhoma Joseph⁴, Ryo Kinoshita-Daitoku¹, Eisuke Kuroda¹, Koji Kimura¹, Keigo Shibayama¹ (¹Dept. Bacteriol. Grad. Sch. Med., Nagoya Univ., ²Dept. Microbiol., Nagoya City Pub. Health Res. Inst., ³AMR Res. Center, Natl. Inst., Infect. Dis., ⁴Dept. Bacteriol., Cent. Vet. Lab., Malawi)

WS14-4**ICEs Drive the Dissemination and Evolution of Carbapenemase Genes among Environmental Bacteria**

○Duc Dao¹, Masato Suzuki^{2,3}, Yohei Kobayashi^{1,4}, Aki Hirabayashi², Ikuro Kasuga^{3,5,6}, Hoang Tran⁷, Taichiro Takemura³, Haruka Abe³, Futoshi Hasebe³, Keigo Shibayama¹ (¹Dept. Bacteriol., Grad. Sch. Med., Nagoya Univ., ²AMR Center, Natl. Inst. Infect. Dis., ³Vietnam Res. Sta., Cent. Infect. Dis. Res. Asia and Africa, Inst. Trop. Med., Nagasaki Univ., ⁴Dept. Microbiol., Nagoya City Pub. Health Inst., ⁵Res. Adv. Sci. Technol., Univ. Tokyo, ⁶Dep. Urban Eng. Univ. Tokyo, ⁷Natl. Inst. Hygiene and Epidemiology)

WS14-5**Identification of evolutionary trajectory of amikacin resistance in *Mycobacterium abscessus***

○Lujie Liang, Yusuke Minato (Div. Anti-Infective Drug Discovery, Ctr. Infectious Disease Research, Fujita Health Univ.)

WS14-6***In vivo* reassessment of the health impact of colistin resistance in a pandemic *E. coli* clone**

○Jirachaya Toyting-Hiraishi¹, Toyotaka Sato^{1,2,3}, Soh Yamamoto³, Mana Tohyama¹, Masaru Usui⁴, Noriko Ogasawara³, Wataru Hayashi^{5,6}, Noriyuki Nagano⁵, Chie Nakajima^{7,8}, Yasuhiko Suzuki^{7,8}, Motohiro Horiuchi¹, Satoshi Takahashi⁹, Shinichi Yokota³, Yutaka Tamura¹⁰ (¹Lab. Vet. Hyg., Fac. Vet. Med., Hokkaido Univ., ²One Health Res. Ctr., Hokkaido Univ., ³Div. Microbiol., Dept. Infect. Dis., Sch. Med., Sapporo Med. Univ., ⁴Lab. Food Microbiol. & Food Safety, Dept. Health & Environ. Sci., Sch. Vet. Med., Rakuno Gakuen Univ., ⁵Dept. Med. Sci., Shinshu Univ. Grad. Sch. Med., Sci. & Tech., ⁶AMR Res. Ctr., Natl. Inst. Infect. Dis., Japan Inst. Health Security, ⁷Div. Bioresources, Int. Inst. Zoo. Con., Hokkaido Univ., ⁸Inst. Vaccine Res. & Dev. (HU-IVReD), ⁹Dept. Infect. Control & Lab. Med., Sch. Med., Sapporo Med. Univ., ¹⁰Sch. Vet. Med., Rakuno Gakuen Univ.)

WS14-7**Isolation of Outer Membrane-Permeable *Pseudomonas aeruginosa* Mutants Linked to Antibiotic Resistance**

○Chen-Hsuan Chiu, Mari Fujita, Keiji Nagano (Div. Microbiol., Sch. Dent., Health Science Univ. Hokkaido)

WS14-8**The Potential of *Enterococcus faecium* Bacteriophage in Inhibit Clinical *E. faecium* Isolates**

○Rizka Hidayati¹, Saki Nishihama^{1,2}, Miki Kawada-Matsuo¹, Hideki Shiba², Hitoshi Komatsuzawa¹ (¹Dept. Bacteriology Grad. Sch. Biomed. Health Sci. Hiroshima Univ. Japan, ²Dept. Biological Endodontics Grad. Sch. Biomed. Health Sci. Hiroshima Univ. Japan)

WS14-9**Bacteriophage as antibacterial agents that target Enterococci**

○Bingxin Song^{1,2}, Miki Kawada-Matsuo^{1,3}, Saki Nishihama^{1,2}, Jumpei Fujiki⁴, Hidetomo Iwano⁴, Hideki Shiba², Hitoshi Komatsuzawa^{1,3} (¹Dept. Bacteriology, Grad. Sch. Biomedical and Health Sciences, Hiroshima Univ., ²Dept. Biological Endodontics, Grad. Sch. Biomedical and Health Sciences, Hiroshima Univ., ³Project Research Center for Oral Infectious Diseases, Hiroshima Univ., ⁴Lab. Veterinary Biochemistry, Dept. Veterinary Medicine, Rakuno Gakuen Univ.)

WS14-10**CRISPR-Cas9 Platform for Rapid Engineering of Lytic-Enhanced Therapeutic Mycobacteriophages**

○Orawee Kaewprasert, Shinya Watanabe, Yuzuki Shimamori, Sharmin Sultana, Akemi Saito, Srivani Veeranarayanan, Kazuhiko Miyanaga, Yoshifumi Aiba, XinEe Tan, Longzhu Cui (Div. Bacteriol., Dept. Infect. Immun., Sch. Med., Jichi Med. Univ.)

**WS15 Selected Oral Presentations 3
Biodefense**

Sunday, March 22 14:45–16:15
Room 2 (Himawari)

Conveners: Yuki Kinjo (Jikei University School of Medicine)
Hitomi Mimuro (Research Center for GLOBAL
and LOCAL Infectious Diseases, Oita University)

WS15-1/P2-083**Analysis of complement-dependent bactericidal mechanisms against *Borrelia miyamotoi***

○Tomohi Takeuchi¹, Hiroki Kawabata², Kozue Satoh², Ai Takano¹ (¹Dept. Epi., Grad. Sch. Vet. Med., Yamaguchi Univ., ²Dept. Bacteriol. I., Natl. Inst. Infect. Dis.)

WS15-2/P2-092**Impact of LPS modifications on inflammasome activation in *Acinetobacter* infection**

○Yasuyuki Matsuda¹, Hajime Yamauchi¹, Go Kamoshida², Tsukasa Shiraishi³, Shin-ichi Yokota³, Hideki Hara¹ (¹Dept. Infect. Dis., Div. Microbiol. Immunochem., Asahikawa Med. Univ., ²Dept. Infect. Cont. Sci., Meiji Pharm. Univ., ³Dept. Microbiol., Sch. Med., Sapporo Med. Univ.)

WS15-3/P2-098**Induction Pathways and Inflammation Regulation of *Candida albicans*-Induced α 1,2-fucosylation**

○Daichi Mori¹, Yoshiyuki Goto^{1,2} (¹Dept. Medical Mycology Research Center, Chiba Univ., ²Dept. Disaster Med, Chiba Univ.)

WS15-4/P2-105**Intestinal mucosa-associated bacteria *Adlercreutzia attenuates colitis* by bile salt hydrolase**

○Jiayue Yang¹, Nozomu Obana^{2,3}, Gaku Nakato^{4,5}, Shuichi Shimma⁶, Yumi Saito⁶, Shin Mukai⁷, Sousuke Yoshida⁷, Kazuhiro Sawada⁷, Yoshiaki Kise⁷, Osamu Nureki⁷, Nobuhiko Nomura³, Shinji Fukuda¹ (¹Inst. Adv. Biosci., Keio Univ., ²TMRC, Inst. Med., Univ. Tsukuba, ³Inst. Life Env. Sci., Univ. Tsukuba, ⁴Grad. Sch. Med., Juntendo Univ., ⁵KISTEC, ⁶Grad. Sch. Eng., Univ. Osaka, ⁷Grad. Sch. Sci., Univ. Tokyo, ⁸Metagen. Inc.)

WS15-5/P2-085***K. pneumoniae*-derived EVs antagonize LPS-induced inflammation and exhibit a pathologic involvement**

○Touya Toyomoto¹, Shogo Tsubaki¹, Juntaro Matsuzaki², Tomohiro Sawa³, Hitoshi Tsugawa¹ (¹TranSiR., Div. Host Def. Mech., Sch. Med., Tokai Univ., ²DiGNa., Res. Ctr. Drug Discov., Fac. Pharm., Keio Univ., ³Dept. Microbiol., Grad. Sch. Med., Kumamoto Univ.)

WS15-6/P2-096**Biogenesis and immunogenicity of *C. difficile* membrane vesicles for controlling pathogenicity**

○Yotaro Isamu¹, Mayu Okuda¹, Nobuhiko Nomura^{2,3,5}, Nozomu Obana^{4,5} (¹Grad. Sch. Life Environ. Sci., Univ. Tsukuba, ²Fac. Life Environ. Sci., Univ. Tsukuba, ³TIAR, Univ. Tsukuba, ⁴TMRC, Fac. Med., Univ. Tsukuba, ⁵MiCS, Univ. Tsukuba)

WS15-7/P2-099**Evaluation of acquired immunity using *S. aureus* - *Xenopus laevis* infection model**

○Ayano Kuriu, Kazuya Ishikawa, Kazuyuki Furuta, Chikara Kaito (Lab. Mol. Biol., Grad. Sch. Med. Dent. Pharm, Okayama Univ.)

WS16 Recent Advances in Mobile Genetic Elements

Sunday, March 22 14:45–16:15
Room 3 (Dahlia 1)

Conveners: Keiji Nakamura (Kyushu University)
Jun Kurushima (Gunma University)

WS16-1**Novel transfer-related genes in vancomycin-resistant pMG1-like plasmid of *Enterococcus faecium***

○Natsuko Ota¹, Jun Kurushima², Haruyoshi Tomita^{1,2} (¹Dept. Bacteriol., Grad. Sch. Med., Gunma Univ., ²Lab. Bacteriol. Drug Resist., Grad. Sch. Med., Gunma Univ.)

WS16-2**Strategies for Selecting Therapeutic Phages for Effective Phage Therapy**

○Shinjiro Ojima¹, Yuki Tomari^{1,2}, Ken Nakada^{1,3}, Kotaro Kiga¹ (¹Dept. Drug Dev., Natl. Inst. Infect. Dis., ²Dept. Life Sci. Med. Biosci., Fac. Adv. Sci. Eng., Waseda Univ., ³Dept. Biomol. Sci., Fac. Sci., Toho Univ.)

WS16-3**Community-associated MRSAJ: Novel transposon Tn552-II and invasion severity-associated plasmid p32kb**

○Tsai-Wen Wan^{1,2,3}, Lee-Jene Teng², Tatsuo Yamamoto¹ (¹Dept. Epidemiol. Genomics Evol., Intl. Med. Edu. Research Center, ²Dept. Clin. Lab. Sci. Med. Biotechnol., National Taiwan Univ., ³Dept. Microbiol. Immunol., Kaohsiung Medical Univ.)

WS16-4**IS26-involving dynamic processes of gene amplification**

○Masamune Aihara¹, Yasuhiro Gotoh², Tetsuya Hayashi³ (¹Dept. Health Sci., Sch. Med., Kyushu Univ., ²AGC, NIG, ³Dept. Bact., Sch. Med., Kyushu Univ.)

WS16-5**Mycobacterial minimal Tn554 family elements are insertion sequence hunters**

○Hirokazu Yano (AMR-RC, NIID, JIHS)

Educational Lecture**EL Preventing Unintentional Research Misconduct: Record-Keeping and Data Management in Everyday Research Practice**

Saturday, March 21 14:45–15:15
Room 1 (Phoenix Hall)

EL**Preventing Unintentional Research Misconduct: Record-Keeping and Data Management in Everyday Research Practice**

○Masaki Nakamura (Center for Education in Liberal Arts and Sciences, The University of Osaka)

Flash Talk

WS4 Flash Talk 1: Taxonomy, Epidemiology, Infectious diseases/Ecology/Physiology, Structural biology/Pathogenicity

Friday, March 20 15:00–16:45
Room 3 (Dahlia 1)

Chairs: Atsushi Tabata (Tokushima University)
Keiji Murakami (Kawasaki University of Medical Welfare)

FL1-01/P1-006**Genome characteristics and phylogenetic evolution of ST9 *Staphylococcus aureus* isolated in Myanmar**

○Noriko Urushibara¹, Meiji Soe Aung¹, Mitsuyo Kawaguchiya¹, Nobuhide Ohashi^{1,2}, Nobumichi Kobayashi¹ (¹Div. Hygiene, Sch. Med., Sapporo Medical Univ., ²Dept. Oral Surgery, Sch. Med., Sapporo Medical Univ.)

FL1-02/P1-008**Establishing the genotyping of *Citrobacter* spp. by high nucleotide diversity genes**

○Nobuyoshi Yagi¹, Rin Nashiro², Itaru Hirai² (¹Dept. Clinical Physiol., Sch. Health Sci., Univ. Ryukyus, ²Dept. Microbiol., Sch. Health Sci., Univ. Ryukyus)

FL1-03/P1-039**Isolation and risk assessment of insect-philic fungi from human dermatitis**

○Sayaka Ban, Junko Ito, Takashi Yaguchi (Med. Mycol. Res. Cent., Chiba Univ.)

FL1-04/P1-040**Resistance of *Listeria monocytogenes* to disinfectants, heavy metals, and stress conditions**

○Hibiki Tsuchiya¹, Mizuki Hirao², Yumiko Okada³, Yukio Morita⁴, Yukako Shimojima^{1,2} (¹Grad. Sch. Food Nutr. Sci., Toyo Univ., ²F. Food Nutr. Sci., Toyo Univ., ³Div. Biomed. Food Res., Nat. Inst. Health Sci., ⁴Sch. Vet. Med., Azabu Univ.)

FL1-05/P1-042**Analysis of Distinctive Motility and Pathogenic Characteristics of Oral *Stenotrophomonas maltophilia***

○Saki Nishihama¹, Miki Kawada-Matsuo², Minh Ngoc Vo², Tomoki Kawayanagi¹, Yo Sugawara³, Motoyuki Sugai³, Hideki Shiba¹, Hitoshi Komatsuzawa² (¹Dept. Biol. Endod., Grad. Sch. Biomed. and Health Sci., Hiroshima Univ., ²Dept. Bacteriol., Grad. Sch. Biomed. and Health Sci., Hiroshima Univ., ³Japan Inst Health Security)

FL1-06/P1-045**Genomic analysis of extensively drug-resistant and multidrug-resistant *Acinetobacter baumannii* ST208**

○Satoshi Nishida¹, Yasuo Ono^{1,2}, Yusuke Yoshino¹ (¹Dept. Microbiol. Immunol., Sch. Med., Teikyo Univ., ²Fac. Health Med. Sci., Teikyo Heisei Univ.)

FL1-07/P1-047**Clonal sharing of drug-resistant bacteria and microbial homogenization in ICU patients**

○Saki Nishihama¹, Yoshimasa Yasutomi², Hiromi Nishi³, Tomoki Kawayanagi¹, Mikari Asakawa⁴, Miki Kawada-Matsuo², Junzo Hisatsune⁵, Yo Sugawara⁵, Hideki Shiba¹, Hiroyuki Kawaguchi³, Toru Takeshita⁴, Motoyuki Sugai⁵, Hitoshi Komatsuzawa² (¹Dept. Biol. Endod., Grad. Sch. Biomed. and Health Sci., Hiroshima Univ., ²Dept. Bacteriol., Grad. Sch. Biomed. and Health Sci., Hiroshima Univ., ³Dept. General Dentistry, Hiroshima Univ. Hosp., ⁴Sect. Prev. & Public Health Dent., Div. Oral Health Growth & Dev., Fac. Dent. Sci., Kyushu Univ., ⁵Japan Inst. Health Security)

FL1-08/P1-052**Longitudinal study of carriage of drug-resistant bacteria in the nasal and oral cavities**

○Kosuke Ueda^{1,2}, Tomoki Kawayanagi^{1,2}, Saki Nishihama^{1,2}, Miki Matsuo², Junzo Hisatsune³, Yo Sugawara³, Hideki Shiba¹, Motoyuki Sugai³, Hitoshi Komatsuzawa² (¹Dept. Biol. Endo., Grad. Sch. Biomed. & Health Sci., Hiroshima Univ., ²Dept. Bacteriol., Grad. Sch. Biomed. & Health Sci., Hiroshima Univ., ³Antimicrobial Research Ctr., National Inst. Infection Diseases)

FL1-09/P1-053**Correlation of Virulence Genetic Classification with Phenotypes in *Pseudomonas aeruginosa* Bacteremia**

○Takayuki Sano, Kohei Yamazaki, Yuka Tonosaki, Takashige Kashimoto (Dept. Vet. Public Health., Sch. Vet. Med., Kitasato Univ.)

FL1-10/P1-058**Development and evaluation of an α -1,3-Glucan detection probe for Aspergillosis diagnosis**

○Kento Suzuki, Daisuke Yamanaka, Yoshiyuki Adachi (Tokyo Univ. Pharm. Life Sci.)

FL1-11/P1-060**Equivalence evaluation of Japanese and ISO methods for *Clostridium* testing**

○Michio Jinnai^{1,2}, Eiki Yamasaki^{1,2}, Yukari Nishino², Tomokatsu Ota², Chihiro Sawada², Tetsuya Mori², Chie Monma², Yukako Shimojima², Yataro Kokubo², Yumiko Okada^{1,2} (¹Div. Biomed. Food Res., Natl. Inst. Health Sci., ²Working Group on Standard Test Methods for Clostridia)

FL1-12/P1-062**Ag85B-specific antibody levels for infection assessment and disease stratification in tuberculosis**

○Tomoya Yamazaki¹, Desak Nyoman Surya Suameitria Dewi², Satoshi Ishikawa^{1,3}, Yutaka Yoshida¹, Ni Made Mertaniasih⁴, Sohkiichi Matsumoto¹ (¹Dept. Bacteriol., Grad. Sch. Med. Dent. Sci., Niigata Univ., ²Dept. Microbiol., Sch. Med., Ciputra Univ., ³Fukuyama Zoo, ⁴Dept. Med. Microbiol., Fac. Med., Univ. Airlangga)

FL1-13/P1-066***Chlamydia trachomatis* Leverages Mitochondrial Signaling Interplay to Promote Intracellular growth**

○Tsubasa Tatsumiya, Torahiko Okubo, Hiroyuki Yamaguchi (Fac. Health Sci., Hokkaido Univ.)

FL1-14/P1-071**Mutational and biochemical analyses of lateral flagellar stator complex in *Vibrio alginolyticus***

○Seiji Kojima¹, Kazuki Yokoyama¹, Michio Homma^{2,3}, Simon Brewer⁴, Norihiro Takekawa⁵ (¹Dept. Biol. Sci., Grad. Sch. Sci., Nagoya Univ., ²Dept. Biomol. Eng., Grad. Sch. Eng., Nagoya Univ., ³Dept. Phys., Grad. Sch. Sci., Nagoya Univ., ⁴Dept. Biol. Sci., Sch. Sci., Nagoya Univ., ⁵Dept. Macromol. Sci., Grad. Sch. Sci., Univ. Osaka)

FL1-15/P1-072**Viscosity-Dependent penetration of Confined Spaces by *Helicobacter* Species**

Sarara Yokohama¹, ○Naoki A Uemura¹, Yoshiki Shimada², Tsuyoshi Kenri³, Emiko Rimbara³, Testsuo Kan², Daisuke Nakane¹ (¹Dept. Eng. Sci., UEC, ²Dept. Mech. & Intell. Syst., UEC, ³Dept. Bact. II, NIID)

FL1-16/P1-075**Phospho-Akt accumulates at inclusion membrane microdomains in *Chlamydia trachomatis* infected cells**

○Taiki Deguchi, Sora Kuroiwa, Miyu Neshiro, Shinji Nakamura, Torahiko Okubo, Hiroyuki Yamaguchi (Fac. Health Sci., Hokkaido Univ.)

FL1-17/P1-078**Effects of membrane vesicles released by *S. mutans* on bone resorption during orthodontic force**

○Kosuke Matsuura¹, Hidenobu Senpuku², Shinichi Negishi¹ (¹Dept. Orthodontics., Sch. Dent., Nihon Univ. Matsudo, ²Dept. Microbiol. Immunol., Sch. Dent., Nihon Univ Matsudo)

FL1-18/P1-079**Characterization of extracellular polysaccharide-like matrix in a pneumococcal *spuA* knockout mutant**

○Mayu Yasukawa¹, Masayuki Ono^{2,3}, Aoi Toma², Wakaba Mizuno², Yasuo Ikagawa¹, Kotaro Higashi⁴, Yujiro Hirose², Masaya Yamaguchi⁵, Shigefumi Okamoto¹, Shigetada Kawabata^{2,6} (¹Dept. Clin. Lab. Biomed. Sci., Grad. Sch. Med., UOsaka, ²Dept. Microbiol., Grad. Sch. Dent., UOsaka, ³Bioinf. Res. Unit, Grad. Sch. Dent., UOsaka, ⁴Dept. Removable Prosthodont. Gerodont., Grad. Sch. Dent., UOsaka, ⁵NIBN, ⁶CiDER, UOsaka)

FL1-19/P1-085**β-Glucan synthase inhibitors induce surface polysaccharide remodeling in *Cryptococcus neoformans***

○Leo Enomoto, Daisuke Yamanaka, Yoshiyuki Adachi (Tokyo Univ. Pharm. Life Sci.)

FL1-20/P1-086**Fluorescent imaging method for fungal polysaccharides using function-modified glycoside hydrolase**

○Daisuke Yamanaka, Kento Suzuki, Yoshiyuki Adachi (Tokyo Univ. Pharm. Life Sci.)

FL1-21/P1-087**Inhibition of β-glucan synthesis in *Aspergillus* and changes in polysaccharide composition**

○Takenori Chika, Kento Suzuki, Daisuke Yamanaka, Yoshiyuki Adachi (Tokyo Univ. Pharm. Life Sci.)

FL1-22/P1-098**Ribosome-mediated regulation of zinc susceptibility in *Escherichia coli***

○Riko Shirakawa, Kazuya Ishikawa, Kazuyuki Furuta, Chikara Kaito (Lab. Mol. Biol., Grad. Sch. Med. Dent. Pharm., Okayama Univ.)

FL1-23/P1-100**Cell wall-deficient cells formed in *Pseudomonas aeruginosa***

○Natsuki Sugiyama¹, Jun Harada¹, Shusaku Kanematsu¹, Nobuhiko Nomura^{2,3,4}, Masanori Toyofuku^{2,3} (¹Grad. Sch. Life Environ. Sci., Univ. Tsukuba, ²Fac. Life Environ. Sci., Univ. Tsukuba, ³MiCS/TIAR, Univ. Tsukuba, ⁴TARA, Univ. Tsukuba)

FL1-24/P1-101**Characterization of a novel inward proton pump rhodopsin, GhXeR, from *Gyptibacillus hwajinpoensis***

○Tatsuro Nishikino^{1,2}, Nanako Hattori¹, Yuma Ito¹, Yuji Furutani^{1,2}, Hideki Kandori^{1,2} (¹Grd. Sch. Eng., Nagoya Inst. Tech., ²OptoBio Tech. Res. Cent., Nagoya Inst. Tech.)

FL1-25/P1-102**Visualization of ATP-Dependent Conformational Dynamics of T4 DNA Ligase in Solution**

○Nobuki Kuwabara, Takashi Matsumoto (Rigaku Corporation)

FL1-26/P1-104**Functional analysis of the *kdp* gene cluster in gut colonization by *Mediterraneibacter gnavus***

○Ryu Ashina¹, Nobuhiko Nomura^{2,3}, Nozomu Obana^{3,4}, Shinji Fukuda^{3,4,5,6,7} (¹Deg. Prog. In Life & Earth Sci., Grad. Sch. Sci. & Technol., Univ. Tsukuba, ²Fac. Life Environ. Sci., Univ. Tsukuba, ³MICS, Univ. Tsukuba, ⁴TMRC, Inst. Med., Univ. Tsukuba, ⁵Inst. Adv. Biosci., Keio Univ., ⁶KISTEC, ⁷Inst. Med., Univ. Juntendo)

FL1-27/P1-118**Phosphotransacetylase in Environment-Dependent SPI1 Regulation**

○Aya Fujimoto¹, Kana Eguchi², Akiko Takaya^{2,3} (¹Dep. Infect. Cont. Sci., Fac. Pharm. Sci., Chiba Univ., ²Dep. Infect. Cont. Sci., Grad. Sch. Pharm. Sci., Chiba Univ., ³MMRC, Chiba Univ.)

FL1-28/P1-121**Pathogenic factors of enterotoxigenic *Escherichia coli* and host responses in *Caenorhabditis elegans***

○Chinatsu Yamamura¹, Anri Matsuda¹, Yoshihiko Tanimoto^{1,2,3}, Ryohei Nomoto⁴, Takayuki Wada^{1,5}, Eriko Nakadai^{1,2,3} (¹Dept. Microbiol. Grad. Sch. Hum. Life Ecol., Osaka Metro. Univ., ²Grad. Sch. Biostudies, Kyoto Univ., ³LiMe, Kyoto Univ., ⁴Kobe Inst. Heal., ⁵Osaka Intl. Res. Ctr. Infect. Dis., Osaka Metro. Univ.)

FL1-29/P1-122**Identification of intestinal actinomycete metabolites and suppressive effects on CDI mouse model**

○Kanakano Matsumoto¹, Kaho Shimamura¹, Akira Take Take², Kazuyoshi Gotoh³, Rie Kinoshita³, Nahoko Tomonobu³, Kenichi Yamamoto³, Masaya Takehara⁴, Shinya Shiomi¹, Miwa Kubo¹, Mitsutaka Wakuda⁵, Masakiyo Sakaguchi³, Haru Kato⁶, Naoki Ohmiya⁵, Yoshihiko Sakaguchi¹ (¹Fac. Pharm. Sci., Tokushima Bunri Univ., ²Facul. Lif. Environ. Sci., Univ. Yamanashi, ³Grad. Sch., Okayama Univ., ⁴Fac. Pharm., Juntendo Univ., ⁵Adv. Endo., Fujita Heal. Univ. Sch. Med., ⁶Antimicro. Resist. Res. Cent., Nat. Institut. Infect. Dis.)

FL1-30/P1-126**Functional Analysis of Biogenic Polyamines in the Pathogenicity of *Vibrio parahaemolyticus***

○Kai Ishida¹, Takaaki Shimohata², Akira Takahashi³, Takaaki Nakaya¹ (¹Dept. Infectious Diseases, Sch. Med, Kyoto Prefectural Univ. Med., ²Marine-Bio, Fukui Prefectural Univ., ³Dept. Prev Environ Nutr., Inst. Biomed Sci., Tokushima Univ.)

FL1-31/P1-132**Development of a marker-based isolation method for *P. aeruginosa* extracellular vesicles**

○Mayuko Oka^{1,2}, Takumi Suenaga², Yasuhiko Horiguchi³ (¹Food Hyg. and Environ. Health, Life and Env. Sci., Kyoto Pref. Univ., ²Food Hyg. and Environ. Fac. Life and Env. Sci. Kyoto Pref. Univ., ³Dept. Mol. Bacteriol., RIMD, Osaka Univ.)

FL1-32/P1-136**Mechanism of toxin neutralization by intracellular antibody delivery using detoxified BoNT**

○Shin-Ichiro Miyashita, Honoka Nagatake, Rintaro Ohno, Hanae Kojima, Yoshimasa Sagane (Dept. Food, Aroma Cosmetic Chem., Fac. Bioindustry, Tokyo NODAI)

FL1-33/P1-141**Characterization of Oral Toxicity-Enhancing HA-33 Variants in Botulinum Toxin Serotypes C and D**

○Hanae Kojima, Shin-Ichiro Miyashita, Rintaro Ohno, Misaki Sato, Yoshimasa Sagane (Dept. Food Aroma Cosmetic Chem., Fac. Bioindustry, Tokyo NODAI)

FL1-34/P1-142**Elucidation of the cytotoxic mechanism of Botulinolysin 2**

○Rintaro Ohno, Shin-Ichiro Miyashita, Hanae Kojima, Yoshimasa Sagane (Dept. Food Aroma Cosmetic Chem., Fac. Bioindustry, Tokyo NODAI)

FL1-35/P1-145**The effect of succinate metabolism on *Campylobacter jejuni* virulence**

○Mana Makimoto^{1,2}, Takaaki Shimohata^{1,2}, Shiho Fukushima¹, Saki Yamanaka¹, Takashi Uebanso¹, Kazuaki Mawatari¹, Akira Takahashi¹ (¹Dept. Prevent. Environ. Nutr., Inst. Biomed. Sci., Tokushima Univ. Grad. Sch., ²Marine Bio., Fukui Prefect Univ.)

FL1-36/P1-149**The Rgg2/3 Quorum-Sensing System Regulates GAS Intracellular Infection Dynamics**

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

FL1-37/P1-150**The role of host DNAJC14 in *Francisella tularensis* infection**

Takemasa Nakamura¹, ○Takashi Shimizu², Kenta Watanabe³, Akihiko Uda⁴, Masahisa Watarai³ (¹Dept. Appl. Chem., Grad. Sch. Engr., Univ. Tokyo, ²Ctr. One Welf., Jnt. Fac. Vet. Med., Yamaguchi Univ., ³Lab. Vet. Pub. Hlth., Jnt. Fac. Vet. Med., Yamaguchi Univ., ⁴Dept. Vet. Sci., NIID)

FL1-38/P1-156**YaiX overexpression increases *Escherichia coli* virulence and promotes multidrug resistance**

○Kinuka Hongu¹, Kazuya Ishikawa¹, Tomoki Kosaki¹, Shin-Ichi Miyoshi^{2,3}, Kazuyuki Furuta¹, Chikara Kaito¹ (¹Grad. Sch. Med. Dent. Pharm. Sci., Okayama Univ., ²Grad. Sch. Med. Dent. Pharm. Sci., Sch. Pharm. Sci., Okayama Univ., ³Res. Cent. Intest. Health Sci., Okayama Univ.)

FL1-39/P1-160**Salmonella Typhimurium survives in monocytes for evading from host immunity and antibiotics**

○Uki Kimura¹, Sei Kashima¹, Karen Saiki¹, Hiroki Takahashi², Akiko Takaya^{2,3}, Koji Tokoyoda¹ (1Div. Immunol., Tottori Univ.,
²Med. Mycol. Res. Ctr., Chiba Univ.,³Dept. Infect. Control Sci., Chiba Univ.)

FL1-40/P1-167**Evaluating *in vivo* biofilm formation by pathogenic microorganisms using a silkworm infection model**

○Yasuhiko Matsumoto, Mei Nakayama, Yuta Shimizu, Sanae Kurakado, Takashi Sugita (Dept. Microbiol., Meiji Pharm. Univ.)

FL1-41/P1-169**Non-penetrating Muscle Injury Facilitates****Hematogenous Colonization of *Streptococcus pyogenes***

○Masayuki Ono^{1,2}, Yujiro Hirose¹, Shigetada Kawabata^{1,3} (1Dept. Microbiol., Grad. Sch. Dent., UOsaka, ²Bioinf. Res. Unit, Grad. Sch. Dent., UOsaka, ³CiDER, UOsaka)

FL1-42/P1-176**Three-dimensional analysis of mycobacterial infections based on tissue-clearing technology CUBIC**

○Orlanath Phendinvay¹, Mariko Hakamata^{1,2}, Yuriko Ozeki², Akihito Nishiyama², Riuku Ohashi^{3,4}, Kazuki Tainaka⁵, Toshiaki Kikuchi¹, Sohkichi Matsumoto² (1Dept. Respiratory Medicine and Infectious Diseases., Sch. Med., Niigata Univ., ²Dept. Bacteriol., Sch. Med., Niigata Univ., ³Histopathology Core Facility., Sch. Med., Niigata Univ., ⁴Dept. Molecular and Diagnostic Pathology., Sch. Med., Niigata Univ., ⁵Dept. System Pathology for Neurological Disorders., Brain Research Inst., Niigata Univ.)

WS9 Flash Talk 2: Ecology/Physiology, Structural biology/Pathogenicity Genetics · Genomics · Biotechnology/Pathogenicity/Host defense/Antimicrobial agents and resistance/Others

Saturday, March 21 15:25–17:10
 Room 3 (Dahlia 1)

Chairs: Miki Kawada-Matsuo (Hiroshima University)
 Masaaki Nakayama (Okayama University)

FL2-01/P2-004**Bacterial cell fusion enables isolation of novel phages**

○Tomoyoshi Kaneko^{1,2}, Satoshi Tsuneda^{1,2} (1Dept. Life Sci. Med. Biosci., Sch. Adv. Sci. Eng., Waseda Univ., ²Phage Therapy Inst., Waseda Univ.)

FL2-02/P2-006**Effects of plant-derived secondary metabolite coumarin compounds on diverse rhizobacteria**

○Sho Hirashima, Mayu Goto, Jae-Hoon Choi, Hirokazu Kawagishi, Masayoshi Hashimoto (Fac. Agr., Shizuoka Univ.)

FL2-03/P2-015**Body-Temperature Warming Efficacy on Bacterial Survivability via Multi-Sample Analysis**

○Moe Rokuto¹, Torahiko Okubo¹, Toyotaka Sato², Hiroyuki Yamaguchi¹ (1Fac. Health Sci., Hokkaido Univ., ²Fac. Vet. Med. Hokkaido Univ.)

FL2-04/P2-016**Biofilm and microbiome assessment of hygienic status in used hard contact lens cases**

○Sayaka Goto, Yui Kahara, Rie Tanaka, Yuna Kimura, Kosuke Tahara, Koji Uesugi, Taizo Sumide (Menicon Co., Ltd.)

FL2-05/P2-017**Comprehensive analysis of microbiota in keratotic plugs following disintegration with Tris**

○Takehisa Yano¹, Kurenai Furukawa², Kaori Umehara², Shinichi Ikegaki² (1Safety Science Lab, Kao Corporation, ²Skincare Lab, Kao Corporation)

FL2-06/P2-019**Isolation and identification of colitis-suppressing sporulating gut bacteria**

○Risako Oki¹, Kazuki Tanaka^{2,3,4}, Nobuhiko Nomura^{5,6,7}, Nozomu Obana^{7,8}, Shinji Fukuda^{2,3,4,8,9} (1Life Ear. Sci, Univ. Tsukuba, ²Inst. Adv. Biosci., Keio Univ., ³KISTEC, ⁴Inst. Med., Univ. Juntendo, ⁵Fac. Life Environ. Sci., Univ. Tsukuba, ⁶TIAR, Univ. Tsukuba, ⁷MiCS, Univ. Tsukuba, ⁸TMRC, Inst. Med., Univ. Tsukuba, ⁹Metagen, Inc.)

FL2-07/P2-021**Global metagenomics of 44,000 samples from 62 countries reveals African gut microbiome signatures**

○Kotaro Murai¹, Yutaka Suzuki², Suguru Nishijima² (1Dept. Bioinform. Syst. Biol., Fac. Sci., Univ. Tokyo, ²LiSDac, Front. Sci., Univ. Tokyo)

FL2-08/P2-032**Establishment of a Sustained hypoxia system and intracellular dynamics of *Chlamydia trachomatis***

○Kisara Yuki, Taiki Deguchi, Tsubasa Tatsumiya, Torahiko Okubo, Hiroyuki Yamaguchi (Fac. Health Sci., Hokkaido Univ.)

FL2-09/P2-034**Environment-Dependent Trade-Offs in *E. coli* Resistant to Bacteriophage NiC89**

○Hinatsu Kobayashi¹, Jumpei Fujiki¹, Toyotaka Sato², Yurika Amano¹, Tomohiro Nakamura³, Hidetomo Iwano^{1,4} (1Dept. Vet. Biochem., Vet. Med., Rakuno Gakuen Univ., ²Dept. Vet. Hygiene., Vet. Med., Hokkaido Univ., ³Dept. Med., California Univ., San Diego, ⁴Phage Therapy Institute, Waseda Univ.)

FL2-10/P2-035**Ecology and Morphology of *Helicobacter pylori* in the Intestinal Tract and Contents of Germ-Free Mice**

○Fuhito Hojo¹, Takako Osaki² (¹Inst. Lab. Animals, Grad. Sch. Med., Kyorin Univ., ²Dept. Prevent. Med., Kyorin Univ., Sch. Med.)

FL2-11/P2-047**Macrolide resistance gene *ermC* induces pleiotropic phenotypic changes in *Bacillus subtilis***

○Mio Uneme¹, Kazuya Ishikawa¹, Yusuke Miyoshi¹, Kazuyuki Furuta¹, Shin-Ichi Miyoshi², Chikara Kaito¹ (¹Grad. Sch. Med. Dent. Pharm., Okayama Univ., ²Res. Cent. Intest. Health Sci., Okayama Univ.)

FL2-12/P2-057**Development of *Vibrio parahaemolyticus* Infected Organoid Models by Gene Expression Analysis**

○Maika Yamashita¹, Mohamad Al Kadi¹, Shigeaki Matsuda², Eiji Ishii², Taiki Sakaguchi³, Masakazu Ishikawa¹, Tetsuya Iida², Shuhei Sakakibara¹, Toshio Kodama⁴, Daisuke Okuzaki¹ (¹iFReC., Osaka Univ., ²Dept. Bact. Infect., RIMD, Osaka Univ., ³Dept. Microbiol. & Immunol., Sch. Med., Osaka Univ., ⁴Dept. Bacteriol., Inst. Trop. Med., Nagasaki Univ.)

FL2-13/P2-060**Introduction of *Mycobacterium*-derived plasmids into *Actinomyces***

○Sakiko Ohara^{1,2}, Yijuan Sheng¹, Yuki Nishiya^{1,3}, Ikue Tosa^{1,4}, Katsuki Takebe⁵, Yuki Arimura³, Hiroshi Mese², Naoko Ohara⁶, Naoya Ohara^{1,4,7} (¹Dept. Oral Microbiol., Grad. Sch. Med. Dent. Pharm. Sci., Okayama Univ., ²Dept. Dent. Oral Surg., Fukuyama City Hospital, ³Dept. Oral Maxillofac. Reconst. Surg., Grad. Sch. Med. Dent. Pharm. Sci., Okayama Univ., ⁴ARCOCS, Dent. Schl., Okayama Univ., ⁵Dept. Dent. Pharm., Grad. Sch. Med. Dent. Pharm. Sci., Okayama Univ., ⁶Dept. Operative Dent., Grad. Sch. Med. Dent. Pharm. Sci., Okayama Univ., ⁷Res. Cent. Intest. Health Sci., Okayama Univ.)

FL2-14/P2-061**Exploring the Potential of Cell-Penetrating Peptides for Biomolecule Delivery into *Streptomyces***

Tetsushi Mori, ○Suzune Honda, Natsumi Taka, Saruul Erdenebat, Tatsuru Okazaki (Dept. Life Sci. and Biotech., TUAT)

FL2-15/P2-062**Discovery of Effective Cell-Penetrating Peptides for Molecular Delivery into Gram-Positive Bacteria**

Tetsushi Mori, ○Futaba Doi, Jaeyoung Yu, Tatsuru Okazaki (Dept. Life Sci. and Biotech., TUAT)

FL2-16/P2-063**Development of a PNA-Based Method for Analyzing Bacterial Metabolic Pathways**

Tetsushi Mori¹, ○Yuka Kikuyama¹, Yugo Kawabuchi¹, Shunichi Kobayashi¹, Rei Suo², Shiro Itoi², Ryutarō Asano¹ (¹Dept. Life Sci. and Biotech., TUAT, ²Grad. Sch. Biores. Sci., Nihon Univ.)

FL2-17/P2-064**Engineered Phage Capsids Targeting *Pseudomonas aeruginosa* Biofilm**

○Esakkiraj Palanichamy, Shinya Watanabe, Tomofumi Kawaguchi, Peterkins Kumwenda Geofrey, Longzhu Cui (Div. Bacteriol, Sch. Med., Jichi Med. Univ.)

FL2-18/P2-068**Analysis of *Salmonella* Dublin isolated from cattle in Hokkaido from 2004 to 2023**

○Makiko Yamada¹, Ayano Yamamoto², Nobuo Arai³, Tomomi Masuko⁴, Ayumi Kobayashi⁵ (¹Hiyama Live. Hygi. Serv. Cent. Hokkaido Pref., ²Tokachi Live. Hygi. Serv. Cent. Hokkaido Pref., ³Natl. Inst. Anim. Health, NARO, ⁴Kamikawa Live. Hygi. Serv. Cent. Hokkaido Pref., ⁵Abashiri Live. Hygi. Serv. Cent. Hokkaido Pref.)

FL2-19/P2-069**Genotypic - phenotypic traits promote *Escherichia coli* persistence in dairy farm environments**

○Ida Munfarida¹, Akiko Nakashima², Jant Cres Caigoy¹, Christian Xedzro¹, Naoki Suzuki³, Toshi Shimamoto¹, Tadashi Shimamoto¹ (¹Grad. Sch. Integrated Sci. Life, Hiroshima Univ., ²Sch. Applied Biol. Sci., Hiroshima Univ., ³Dairy Eco-Sys. R&D Ctr., Hiroshima Univ.)

FL2-20/P2-076**The impact of oral resident bacteria in the genus *Streptococcus* on the ocular surface**

○Yuna Kimura, Rie Sasaki, Kaho Mizuno, Taizo Sumide (Menicon Co.,Ltd)

FL2-21/P2-082**Cell proliferation activity of solubilized peptidoglycan derived from lactic acid bacteria**

○Sho Noguchi¹, Momoko Nakayama², Masahiro Eguchi², Sakura Onoue¹, Hiroaki Kouzai¹, Kazuyoshi Kawahara¹ (¹Col., Sci., Eng., Kanto Gakuin Univ., ²National Inst. Animal Health, NARO)

FL2-22/P2-090**Genetic diversity in immune receptors and bacterial ligands suggests coevolutionary dynamics**

○Gen Hasegawa¹, Kouyuki Hirayasu¹, Norihiko Takemoto², Hisashi Arase^{3,4,5}, Masaya Yamaguchi^{6,7}, Shigetada Kawabata^{5,7}, Rikinari Hanayama¹ (¹eSRC., Kanazawa Univ., ²Dept. Infect. Dis., NIGHM, JIHS., ³Dept. Immunochem., RIMD, Osaka Univ., ⁴Lab. Immunochem., IFReC, Osaka Univ., ⁵CiDER, Osaka Univ., ⁶NIBN, ⁷Dept. Microbiol., Osaka Univ. Grad. Sch. Dent.)

FL2-23/P2-093**Antimicrobial peptide LL-37 induces cell death and release of SASP factors in senescent cells**

Kazuki Santa¹, Kaori Suzuki², Yumi Kumagai², Toshiaki Iba¹, ○Isao Nagaoka¹ (¹Far. Med. Sci. Juntendo Univ., ²Dept. Biochem. Syst. Biomed., Juntendo Univ. Grad. Sch. Med.)

FL2-24/P2-095***Staphylococcus aureus* induces ASC phosphorylation by activating Aurora A for inflammasome activation**

○Hajime Yamauchi, Yasuyuki Matsuda, Hideki Hara (Dept. Infect. Dis., Div. Microbiol. Immunochem., Asahikawa Med. Univ.)

FL2-25/P2-102**Establishment of a Plug-and-Display type vaccine using *Bacillus subtilis* derived membrane vesicle**

○Takehito Wakabayashi¹, Kimihiro Abe², Hiroki Kawabata², Kozue Sato², Ryoma Nakao², Takehiro Yamaguchi², Tsutomu Sato¹, Yukihiko Akeda² (¹Grad. Sch. Sci. Eng., Hosei Univ., ²Dept. Bacteriol. I, NIID, JIHS.)

FL2-26/P2-103**Optimization of immunization protocols for a BCG-derived membrane vesicle-based tuberculosis vaccine**

○Yui Yoshikawa^{1,2}, Takehiro Yamaguchi¹, Ryunosuke Tominaga^{1,2}, Tomoyo Nakamura^{2,3}, Tomohiko Nishino^{2,3}, Kimihiro Abe¹, Ryoma Nakao¹, Yukihiko Akeda¹ (¹Dept. Bacteriol. I, Natl. Inst. Infect. Dis., ²Sch. Biosci. Biotechnol., Tokyo Univ. Technol., ³Grad. Sch. Bionics, Tokyo Univ. Techno)

FL2-27/P2-107**Comparative analysis of bacteriophages homologous to *Streptococcus mutans* temperate phage ϕ KSM96**

○Yumi Yamauchi^{1,2}, Saki Nishihama^{1,2}, Miki Kawada-Matsuo^{2,3}, Junzo Hisatsune⁴, Yo Sugawara⁴, Hideki Shiba¹, Motoyuki Sugai⁴, Hitoshi Komatsuzawa^{2,3} (¹Dept. Biol. Endo., Hiroshima Univ. Grad. Sch. Biomed. HS, ²Dept. Bact., Hiroshima Univ. Grad. Sch. Biomed. HS, ³Pjt. Res. Ctr. for Nosocomial Infectious Dis., Hiroshima Univ., ⁴Japan Inst. Hlth. Secur, AMR Res. Ctr., Natl. Inst. Infectious Dis.)

FL2-28/P2-110**Growth inhibition of *Escherichia coli* by sphingoid base synthesis genes scattered across bacteria**

○Jun Kawaguchi¹, Hiroki Uchiyama², Noritaka Iwai², Masanori Toyofuku^{1,3,4}, Nobuhiko Nomura^{1,3,4,5}, Masaaki Wachi² (¹Fac. Life Envir. Sci., Univ. Tsukuba, ²Dept. Life Sci. Technol., Science Tokyo, ³MiCS, Univ. Tsukuba, ⁴TIAR, Univ. Tsukuba, ⁵TARA, Univ. Tsukuba)

FL2-29/P2-115**A Study on the Diversity of Fatty Acid Sensitivity in *Staphylococcus aureus***

○Yasuyuki Asada^{1,2}, Keijuro Ohdan^{1,3}, Yujin Suzuki¹, Miki Kawada-Matsuo¹, Tomonao Aikawa³, Souiti Yanamoto², Hitoshi Komatsuzawa¹ (¹Dept. Bacteriology, Grad. Sch. Biomedical Sciences, Hiroshima Univ., ²Dept. Oral Oncology, Grad. Sch. Biomedical and Health Sciences, Hiroshima Univ., ³Dept. Oral and Maxillofacial Surgery, Grad. Sch. Biomedical and Health Sciences Hiroshima Univ.)

FL2-30/P2-126**A Study on the Prevention of Periodontal Disease by Phytosphingosine**

○Mutsumi Aihara¹, Naoya Sato¹, Miu Taniguchi¹, Hiromichi Yumoto², Akihiro Shirai¹, Tamotsu Tanaka¹ (¹Grad. Sch. Tech. Indust. & Social Sci., Tokushima Univ., ²Grad. Sch. Inst. Biomed. Sci., Tokushima Univ.)

FL2-31/P2-129**Analysis of Flagellar Motility Inhibition Mechanisms by Rhatannin**

○Momona Sakamoto¹, Uki Kimura¹, Koji Tokoyoda¹, Minoru Umeda², Kumiko Osaki², Atsushi Ishihara², Satoshi Shibata^{3,4} (¹Sch. Life Sci., Fac. Med., Tottori Univ., ²Dept. Agric., Life & Environ. Sci., Fac. Agric., Tottori Univ., ³Div. Bacteriol., Dpt. Microbiol & Immunol., Fac. Med. Tottori Univ., ⁴AIDGH, Tottori Univ)

FL2-32/P2-130**Molecular Mechanism of the Antibiotic Potentiator, Magnolol, in Combination with Antibiotics**

○Ryoya Yamamoto¹, Natsuki Yamanaka¹, Tetsuhiro Nemoto², Akiko Takaya^{1,3} (¹Dep. Infect. Cont. Sci., Grad. Sch. Pharm. Sci., Chiba Univ., ²Dep. Pharm Chem., Grad. Sch. Pharm. Sci., Chiba Univ., ³MMRC, Chiba Univ.)

FL2-33/P2-132**Susceptibility to unsaturated fatty acids and antibiotic synergy in *Enterococcus* strains**

○Keijuro Ohdan¹, Yasuyuki Asada^{2,3}, Saki Nishihama^{2,4}, Miki Kawada-Matsuo², Hideki Shiba⁴, Souichi Yanamoto³, Tomonao Aikawa¹, Hitoshi Komatsuzawa² (¹Dept. Oral and Maxillofacial Surgery, Hiroshima Univ. Grad. Sch. Biomedical and Health Sciences, ²Dept. Bacteriology, Hiroshima Univ. Grad. Sch. Biomedical and Health Sciences, ³Dept. Oral Oncology, Hiroshima Univ. Grad. Sch. Biomedical and Health Sciences, ⁴Dept. Biological Endodontics, Hiroshima Univ. Grad. Sch. Biomedical and Health Sciences)

FL2-34/P2-133**Analysis of Aminoglycoside Resistance Mechanisms in *Enterobacteriales* from Sewage**

○Kensei Minamigawa, Chihiro Norizuki, Jun-ichi Wachino (Dept. Clin. Microbiol., Sch. Med Sci., Fujita Health Univ.)

FL2-35/P2-136**Rapid Detection of Drug-Resistant Bacteria Using a PMART-PCR-Nanopore sequencing**

○Rajalakshmi Balasubramanian¹, Yu Suzuki², Satomi Asai³, Eisaku Yoshihara³, Miki Miyazawa³, Tadashi Imanishi¹ (¹Dept. Mol. Life Sci., Sch. Med., Tokai Univ., ²Grad. Sch. Med., Tokai Univ., ³Dept. Clin. Lab. Med., Sch. Med., Tokai Univ.)

FL2-36/P2-140**Oral Hygiene Status and Antimicrobial Resistance Genes in the Oral Microbiome among Thai Children**

○Momoko Kobayashi^{1,2}, Lapirattanakul Jinthana³, Masayuki Ono¹, Daisuke Motooka^{4,5}, Tansriratanawong Kallapat⁶, Tantivitayakul Pornpen³, Smutkeeree Apiwan⁷, Shigetada Kawabata^{1,8}, Masaya Yamaguchi² (¹Dept. Microbiol., Grad. Sch. Dent., Osaka Univ., ²NIBN, ³Dept. Oral Microbiol., Mahidol Univ., ⁴OUBIC, ⁵IFReC, ⁶Dept. Oral Med. Periodontol., Mahidol Univ., ⁷Dept. Pediatr. Dent., Mahidol Univ., ⁸CiDER, Osaka Univ.)

FL2-37/P2-144**Development of a phage de-carrier to prevent the pandemic spread of antimicrobial-resistant bacteria**

○Mana Tohyama¹, Toyotaka Sato^{1,2}, Jumpei Fujiki³, Jirachaya Toyting-Hiraishi¹, Akio Suzuki^{1,2}, Hidetomo Iwano³, Motohiro Horiuchi^{1,2} (¹Dept. Veterinary Hygiene, Sch. Vet., Hokkaido Univ., ²One Health Research Center, Hokkaido Univ., ³Dept. Veterinary Biochemistry, Sch. Vet Rakuno Gakuen Univ.)

FL2-38/P2-153**Phage Disinfection Effect on Food Surfaces in Antimicrobial-Resistant Bacteria**

Mitsuoki Kawano, ○Sayaka Maeda, Moe Koguchi, Mizuho Fujikawa, Yuuna Yamamichi, Mizuki Nakamura, Anmi Yamanaka (Dept. Nutr. Sci., Nakamura Gakuen Univ.)

FL2-39/P2-154**Occurrence and resistance of ESBL-producing bacteria in retail chicken meat and drip fluid**

○Runa Nakashima¹, Aoi Kiuchi¹, Yui Sei¹, Reina Kuwano¹, Momoka Kondo¹, Tomoka Matsuo¹, Sayaka Maeda¹, Kohei Kondo², Mitsuoki Kawano¹ (¹Dept. Nutr. Sci., Nakamura Gakuen Univ., ²AMR Center, NIID)

FL2-40/P2-155**Phenotypic and virulence traits of Enterococcus spp. isolated from a dairy farm: a comparative study**

○Christian Xedzro¹, Kazumi Yokoo¹, Naoki Suzuki², Toshi Shimamoto¹, Tadashi Shimamoto¹ (¹Lab. Food Microbiol., Sch. App. Biol. Sci., Hiroshima Univ., ²Dairy Eco. Res. Develop. Ctr., Hiroshima Univ.)

FL2-41/P2-161**Analysis of disinfectant resistance mechanism via two-component system SarRS in *Serratia marcescens***

○Koshiro Hyakutome¹, Moyu Tanishige², Riho Yasuoka², Yuma Kondo¹, Daichi Morita¹, Wakano Ogawa³, Takanori Kumagai¹, Teruo Kuroda¹ (¹Dept. Microbiol. Med., Sch. Med. Sci., Hiroshima Univ., ²Sch. Pharm., Hiroshima Univ., ³Sch. Pharm., Shujitsu Univ.)

FL2-42/P2-166**Hospital Wastewater as hotspot of ESKAPE Pathogens: Focus on *Klebsiella pneumoniae***

○Bakon Sophia Karen¹, Sholehah Zakaria Nur Fatihah¹, Hashim Hazimah², Jamilan Mohd Azerulazree³, Mohamad Zuraifah Asrah¹ (¹Health Risk Assessment Unit, Environmental Health Research Centre, Inst. Medical Research, National Inst. Health, ²Pharmacy Practice and Development Division, Ministry of Health Malaysia, ³Nutrition Unit, Nutrition, Metabolic and Cardiovascular Research Centre, Inst. Medical Research, National Inst. Health)

FL2-43/P2-175**Phage susceptibility linked to K5 capsule genes in ESBL-producing uropathogenic *Escherichia coli***

○Debora Satie Nagano¹, Mayuko Tanaka¹, Junko Nishimura¹, Yasunori Tanji², Tomoko Hanawa¹, Takeaki Matsuda^{1,2} (¹Dept. Gen. Med., Sch. Med., Kyorin Univ., ²Dept. Traum. Crit. Care Med., Kyorin Univ. Sch. Med)

FL2-44/P2-179**Report on National Stockpile Utilization of Equine Antitoxins (Gas Gangrene, Diphtheria, Botulism)**

○Kenji Ueda¹, Motohide Takahashi², Toru Hifumi³, Manabu Ato⁴ (¹KM Biologics Co., Ltd. Aso Plant, ²Kumamoto Health Sciences Univ. Toxin and Biologicals Research Laboratory, ³Kyorin Univ. Hospital Emergency and General Medicine, ⁴NIID Leprosy Research Center)

FL2-45/P2-181**Development and Dissemination of Diagnostic Products for NHPH Infections**

○Hidenori Matsui^{1,3}, Masato Suzuki², Sae Aoki¹, Keigo Shibayama³, Tsuyoshi Kennri¹, Kengo Tokunaga⁴, Emiko Rimbara¹ (¹Dept. Bacteriol. II, JIHS, NIID, ²AMR Res. Cent., JIHS, NIID, ³Dept. Bacteriol., Sch. Med., Nagoya Univ., ⁴Dept. PM., Sch. Med., Kyorin Univ.)

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

P1-001

Genomic Epidemiology of Salmonella Oranienburg Isolates from Humans, Chickens, and Food in Japan

○Jun Kawase¹, Ryoji Nomura¹, Naoshi Ando², Ryohei Nomoto³, Tetsuya Ikeda⁴, Hiroaki Shigemura⁵, Tomoko Fukudome⁶, Takahiro Hiratsuka⁷, Hisahiro Kawai⁸, Eiji Yokoyama⁹ (¹Dept. Bact., Shimane Inst. Pub. Heal. Environ. Sci., ²Div. Bact., Chiba Inst. Pub. Heal., ³Heal. Res. Dept. 2, Kobe Inst. Heal., ⁴Dept. Infec. Dis., Hokkaido Inst. Pub. Heal., ⁵Div. Patho. Microb., Fukuoka Inst. Heal. Environ. Sci., ⁶Dept. Microb., Miyazaki Inst. Pub. Heal. Environ., ⁷Div. Bact. Virol. Chem. Res., Hiroshima Tech. Res. Inst., ⁸Dept. Pub. Heal., Okayama Inst. Environ. Pub. Heal., ⁹Jap. Inst. Heal. Sec., Nat. Inst. Infec. Dis., Dept. Diag. Test. Tech. Res. Sec2)

P1-002

ST-4526 in Foodborne Campylobacter jejuni: Quinolone Resistance and GBS-Associated Genes Carriage

○Yuki Koyama¹, Risa Yoshida¹, Asami Arashima², Tomohiro Harada¹, Reina Ogawa¹, Yusuke Chiba¹, Rie Doi¹, Kazumi Narisawa¹ (¹Dept. Food Microbiol., Saitama Inst. Pub. Health, ²Lab. Sect., Kawaguchi City Pub. Health Cent.)

P1-003

Genomic characterization and pathogenicity assessment of Salmonella Schwarzengrund isolated in Japan

○Shunsuke Ikeuchi^{1,2}, Takaki Hinata², Rikuto Kitahara², Maki Inoue², Yumiko Okada¹, Hideki Hayashidani², Masashi Uema¹ (¹Div. Biomed. Food Res., Natl. Inst. Health Sci., ²Grad. Sch. Agric., Tokyo Univ. Agric. Tech.)

P1-004

Bacteriological analysis of extraintestinal pathogenic Escherichia coli isolated from cattle

○Wakako Misumi¹, Yusuke Abeto², Daisuke Okada³, Masahiro Kusumoto⁴ (¹Collab. Res. Div. Anim. Dis., JFVM, Kagoshima Univ., ²Kagoshima Central Livest. Hyg. Serv. Cent., ³Livest. Disease Contr. and Prev. Div., Kagoshima Pref., ⁴Natl. Inst. Anim. Health, NARO)

P1-005

Epidemiological analyses of Domestic Isolates of Salmonella enterica serovar Abortusequi

○Masashi Okamura¹, Kenji Ohya², Hassane Diallo¹, Rahman Nahid¹, Sameera Premaratne¹, Yoshimasa Sasaki¹, Chihiro Aikawa¹ (¹Dept. Vet. Med., Obihiro Univ. Agri. Vet. Med., ²Div. Microbiol., NIHS)

P1-006/FL1-01

Genome characteristics and phylogenetic evolution of ST9 Staphylococcus aureus isolated in Myanmar

○Noriko Urushibara¹, Meiji Soe Aung¹, Mitsuyo Kawaguchiya¹, Nobuhide Ohashi^{1,2}, Nobumichi Kobayashi¹ (¹Div. Hygiene, Sch. Med., Sapporo Medical Univ., ²Dept. Oral Surgery, Sch. Med., Sapporo Medical Univ.)

P1-007

Longitudinal Genomic Diversity of ST1 MRSA and Its Implication for Clone Shift

○Masahiro Suzuki¹, Masayoshi Chonan², Shigeki Misawa³, Yuki Uehara⁴ (¹Dept. Microbiol., Sch. Med., Fujita Health Univ., ²Dept. Clin. Lab., Juntendo Hospital, ³Dept. Clin. Lab. Tech, Fac. Med. Sci., Juntendo Univ., ⁴Infect. Dis., Sch. Med., Juntendo Univ.)

P1-008/FL1-02

Establishing the genotyping of Citrobacter spp. by high nucleotide diversity genes

○Nobuyoshi Yagi¹, Rin Nashiro², Itaru Hirai² (¹Dept. Clinical Physiol., Sch. Health Sci., Univ. Ryukyus, ²Dept. Microbiol., Sch. Health Sci., Univ. Ryukyus)

P1-009

Proposal for Reclassification of Clostridium novyi and Clostridium haemolyticum

○Takashi Mada, Daisuke Takamatsu (Div. Anim. Infect. Dis. Res., Natl. Inst. Anim. Hlth. (NIAH), Natl. Agric. Food Res. Org. (NARO))

P1-010

Isolation of Borrelia spp. from Ticks on Confiscated Ryukyu Black-breasted Leaf Turtles in Japan

○Yongjin Qiu¹, Naoya Honda², Makenzie L. Kwak¹, Samuel Kelava¹, Yuki Ohsugi¹, Chihiro Kaneko¹, Haruhiko Murotani¹, Nariaki Nonaka¹, Ryo Nakao¹ (¹Fac. Vet. Med., Hokkaido Univ., ²Wildl. Ex-situ Conserv. Center)

P1-011

A rapid PCR-based discrimination of Vibrio parahaemolyticus and Vibrio cholerae

○Aya Takeishi¹, Rajalakshmi Balasubramanian², Tadashi Imanishi² (¹Grad. Sch. Med., Tokai Univ., ²Dept. Mol. Life Sci., Sch. Med., Tokai Univ.)

P1-012

Draft genome sequence of domestic Prototheca bovis isolates and development of a genotyping method

○Masato Akiba¹, Minori Onaga¹, Tsuyoshi Sekizuka², Ichiro Yasutomi³, Ikuo Uchida¹ (¹Dept. Pathobiol., Sch. Vet. Med., Rakuno Gakuen Univ., ²Sekizuka Sangyo Ltd., ³Yubetsu Gyugun Kanri Service)

P1-013**Comparative Genomics and an Infection Model Reveal Virulence Traits of *Aeromonas enteropelogenes***

○Kohei Yamazaki¹, Yuka Tonosaki¹, Klara Kursanbaeva^{1,2}, Momona Tsuji¹, Masatomo Morita³, Eiji Arakawa³, Hidemasa Izumiya³, Yukihiro Akeda^{3,4,5}, Takashige Kashimoto¹ (¹Vet. Public Health, Sch. Vet., Kitasato Univ., ²Kyrgyz RIVS (A. Duishev), ³Dept. Bacteriology I, NIID, JIHS, Japan, ⁴RIMD, Osaka Univ., ⁵Grad. Sch. Med., Osaka Univ.)

P1-014**Genomic analysis of *Enterococcus cecorum* strains isolated from broilers in Japan**

○Koume Matsubara¹, Masatoshi Okura¹, Masahiko Kumagai², Euki Yazaki², Takashi Mada¹, Daisuke Takamatsu¹ (¹National Inst. Animal Health, NARO, ²Research Center for Advanced Analysis, NARO)

P1-015**Genome sequence of *Cysteiniphilum* sp. GTC20157 isolated from coastal seawater in Osaka, Japan**

○Yushi Naka², Masahiro Hayashi¹, Hiromi Machida², Masanori Miyata², Yoshinori Muto¹, Kaori Tanaka¹ (¹Gifu Univ., ²MIZUKEN Co., Ltd.)

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

P1-016**Whole-genome SNP analysis for source investigation of legionellosis patients**

○Jun-ichi Kanatani¹, Emi Maenishi², Keiko Kimata¹, Kazuki Saito¹, Kaho Ikeda¹, Moe Oshima¹, Hina Shimizu¹, Kazunori Oishi¹ (¹Dept. Bacteriol., Toyama Inst. Health, ²Dept. Res. Plann., Toyama Inst. Health)

P1-017**The prevalence and phylogenetic relationships of *Salmonella* Schwarzengrund among food animals**

○Nobuo Arai¹, Yukino Tamamura-Andoh¹, Yuki Wakabayashi², Hirotaka Furuya¹, Anna Momoki¹, Ayako Watanabe-Yanai¹, Taketoshi Iwata¹, Masahiro Kusumoto^{1,3} (¹Natl. Inst. Anim. Health, NARO, ²Div. Microbiol., Osaka Inst. Pub. Health, ³Grad. Sch. Vet. Sci., Osaka Metro. Univ.)

P1-018/WS12-1**Genome analysis of EIEC reveals spreading conjugative virulence plasmids and emerging lineages**

○Kazuhiisa Okada¹, Warawan Wongboot², Amonrattana Roobthaisong¹, Tetsuya Iida³, Shigeyuki Hamada¹ (¹RCC-ERI, RIMD, Osaka Univ., ²Thai NIH, ³Dept. Bacterial. Infect., RIMD, Osaka Univ.)

P1-019**Prevalence and characterization of *Escherichia albertii* in environmental waters of Gifu prefecture**

○Takuya Mizuno, Kiyoshi Matsumoto, Yukari Sago, Haruka Takenouchi, Yoshihiko Kameyama (Gifu Prefectural Research Inst. Health and Environmental Sciences)

P1-020/WS12-2**Survey of co-infection with *Vibrio cholerae* O1 in Kolkata, India**

○Keinosuke Okamoto^{1,2}, Eizo Takahashi^{1,3}, Shin-ichi Miyoshi¹, Sadayuki Ochi³, Dutta Shanta¹, Mukhopadhyay Asish¹, Kanungo Suman¹, Daisuke Motooka⁴, Shota Nakamura⁴, Tetsuya Iida^{2,4} (¹Colla. Res. Cen. Okayama Univ. Infect. Dis., Okayama Univ., ²Dept. Bact. Infect., Res. Ins. Micro. Dis., Osaka Univ., ³Fac. Pharm. Sci., Yokohama Univ. Pharm., ⁴Dept. Infect. Meta., Res. Ins. Micro. Dis., Osaka Univ.)

P1-021/WS12-4**Genome analysis of macrolide-resistant *B. pertussis* that became highly prevalent in 2025 in Japan**

○Shintaro Hirai, Chizuko Kimura, Hiroto Shinomiya (Ehime Prefectural Inst. Public Health and Environmental Science)

P1-022**Optimization of SNP analysis parameters based on large-scale outbreak investigations**

○Ken-ichi Lee, Sunao Iyoda, Hidemasa Izumiya, Yukihiro Akeda (Dept Bacteriol. I, Natl. Inst. Infect. Dis.)

P1-023**Characteristics of methicillin-resistant staphylococci from non-clinical settings in Vietnam**

○Yuri Ushijima¹, Le Thuy Thi Nguyen², Annisa Krama¹, Momoko Matsuoka³, Kenta Yamazaki⁴, Terumi Miyata⁵, Masato Higashide⁵, Nghi Bao Nguyen^{3,6}, Mais Maree¹, Kazuya Morikawa¹ (¹Inst. Med., Univ. Tsukuba, ²Biot. Cent. HCMC, Viet, ³Grad. Sch. Comprehensive Human Sciences, Univ. Tsukuba, ⁴Sch. Medicine and Health Sciences, Univ. Tsukuba, ⁵Kotobiken Med. Lab, Inc., ⁶Univ. Medicine and Pharmacy at HCMC, Viet)

P1-024/WS12-7**Occurrence and genomic features of *Escherichia albertii* in environmental water and raccoons in Japan**

○Atsushi Hinenoya¹, Rin Tagami², Sharda Prasad Awasthi^{1,3,4}, Bingting Xu¹, Noritoshi Hatanaka^{1,2,3,4}, Shinji Yamasaki^{1,2,3,4} (¹Grad. Sch. Vet. Sci., Osaka Metro. Univ., ²Sch. Life Environ., Osaka Pref. Univ., ³AHSRI, Osaka Metro. Univ., ⁴OIRCID, Osaka Metro. Univ.)

P1-025**Seasonal occurrence of Shiga toxin-producing *Escherichia coli* in beef cattle farms**

○Hinano Yoshinaga, Atsushi Hase, Nahoko Nishibori, Tatsuya Nakayama (Dept. Food Hyg., Grad. Int. Sci. Life., Hiroshima Univ.)

P1-026**Environmental Surveillance to Track Emerging Streptococcal Toxic Shock Syndrome in Rural Japan**

○Dharmika Leshan Wannigama^{1,2}, Hiroshi Hamamoto¹, Yoshitaka Shimotai¹, Shuichi Abe² (¹Dept. Infectious Diseases Yamagata Univ. Fac. Medicine, ²Dept. Infectious Diseases and Infection Control, Yamagata Prefectural Central Hospital)

P1-027/WS12-3**Genomic analysis of *Klebsiella oxytoca* complex from the nationwide JARBS-GNR surveillance, 2019-20**

○Yo Sugawara¹, Wataru Hayashi¹, Ikue Hayashi^{1,2}, Shaheem Elahi¹, Hui Zuo¹, Liansheng Yu¹, Kohei Kondo¹, Yukari Sato¹, Natsumi Kawahara³, Sayoko Kawakami¹, Koji Yahara¹, Shizuo Kayama¹, Motoyuki Sugai¹ (¹Antimicrob. Res. Ctr., Natl. Inst. Infect. Dis., Japan Inst. Health Security, ²Grad. Sch. Biomed. Health Sci., Hiroshima Univ., ³Hamanomachi Hosp.)

P1-028/WS12-5**Genomic surveillance identifies potential transfer of antimicrobial-resistant foodborne pathogens**

○Norikazu Kitamura¹, Hiroto Shinomiya², Michiko Kawanishi³, Noriko Konishi⁴, Kenji Ohya⁵, Haruyoshi Tomita^{6,7}, Yukiko Asano², Chizuko Kimura², Hideto Sekiguchi³, Manao Ozawa⁸, Kanako Ishihara⁹, Jun Kurushima⁶, Koichi Tanimoto⁶, Takahiro Nomura⁷, Yusuke Hashimoto⁷, Foodborne AMR Research Group of Public Health Institutes, Tetsuo Asai¹⁰, Haruo Watanabe, Yo Sugawara¹, Koji Yahara¹, Motoyuki Sugai¹ (¹AMR Res. Ctr., NIID, JIHS, ²Ehime Pref. Inst. Pub. Health Env. Sci., ³Vet. AMR Ctr., Natl. Vet. Assay Lab., MAFF, ⁴Dept. Microbiol., Tokyo Met. Inst. Pub. Health, ⁵Div. Microbiol., Natl. Inst. Health Sci., ⁶Lab. Bact. Drug Resist., Grad. Sch. Med., Gunma Univ., ⁷Bacteriol., Grad. Sch. Med., Gunma Univ., ⁸Assay Div. I, Natl. Vet. Assay Lab., MAFF, ⁹Coop. Dept. Vet. Med, Tokyo Univ. Agri. Technol., ¹⁰United Grad. Sch. Vet. Sci., Gifu Univ.)

P1-029**Molecular Epidemiological Analysis of *Campylobacter* Isolates from Food Handlers**

○Kairi Miyaji¹, Natsuki Ohata², Mamoru Noda³, Moritaka Hatta³, Tatsuya Nakayama¹ (¹Dept. Food Hyg., Grad. Int. Sci. Life. Hiroshima Univ., ²Kobe Inst. Health, ³Machida Hygienic Control Laboratory)

P1-030**Distribution and traits of *Escherichia albertii* from environmental water in Kanagawa and Tokyo**

○Koyu Ishii¹, Tomomitsu Alexandre Okatani², Yusuke Sato¹, Wataru Hayashi³, Liansheng Yu³, Shizuo Kayama³, Motoyuki Sugai³, Keiko Kawamoto¹, Mariko Okamoto¹, Yukio Morita² (¹Dept. Infect. Immunol., Sch. Vet. Med., Azabu Univ., ²Dept. Public Health 2., Sch. Vet. Med., Azabu Univ., ³Antimicro. Resist. Res., NIID, JIHS)

P1-031**Molecular epidemiology and plasmid analysis of meat-derived VanN-type Enterococcus faecium**

○Yusuke Hashimoto¹, Takahiro Nomura¹, Norikazu Kitamura², Yo Sugawara², Koji Yahara², Jun Kurushima³, Hidetada Hirakawa¹, Motoyuki Sugai², Haruyoshi Tomita^{1,3} (¹Dept. Bacteriol., Grad. Sch. Med., Gunma Univ., ²Antimicrobial Resistance Research Center, National Inst. Infectious Diseases, ³Lab. Bacteriol. Drug Resist., Grad. Sch. Med., Gunma Univ.)

P1-032**Genotypes and antimicrobial resistance of invasive *S. pneumoniae* isolates from adults in Hokkaido**

○Mitsuyo Kawaguchiya¹, Meiji Soe Aung¹, Noriko Urushibara¹, Nobuhide Ohashi¹, Nobuyuki Kobayashi², Kenji Kudo³, Masahiko Ito³, Nobumichi Kobayashi¹ (¹Div. Hygiene, Dept. Social Med., Sapporo Med. Univ., ²Med. Lab. and Blood Center, Asahikawa Med. Univ. Hospital, ³Sapporo Clinical Laboratory Inc.)

P1-033**Genomic analysis of carbapenemase-producing *Enterobacteriaceae* isolated from Roi Et in Thailand**

○Noriko Sakamoto¹, Yo Sugawara^{1,2}, Yukihiro Akeda^{2,3,4}, Anusak Kerdsin⁵, Dan Takeuchi², Shigeto Hamaguchi⁶, Norihisa Yamamoto⁷, Zuo Hui¹, Ryuichiro Abe², Tetsuya Iida², Motoyuki Sugai¹, Shigeyuki Hamada² (¹Antimicrob. Resist. Res. Center, Nat. Inst. Infect. Dis., ²Res. Inst. for Microb. Dis., Osaka Univ., ³Dept. Bacteriol. I, Nat. Inst. Infect. Dis., ⁴Osaka Univ. Grad. Sch. Med., ⁵Fac. Public Health, Kasetsart Univ., ⁶Osaka Inst. Public Health, ⁷Vaccine Res. Dept., Nat. Inst. Infect. Dis)

P1-034**Comparative genomic analysis of *Listeria monocytogenes* isolates from patients in Japan**

○Yumiko Okada¹, Shunsuke Ikeuchi¹, Michio Jinnai¹, Tomoko Nishida¹, Akiko Tomaru¹, Hidemasa Izumiya² (¹Div. Biomed. Food Res., Nat. Inst. Health Sci., ²Dept. Bacteriol. I, Nat. Inst. Infect. Dis., JIHS)

P1-035**Isolation and genomic characterization of *Staphylococcus aureus* from healthy adults in Iwaki Study**

○Akari Okada¹, Hisaya Ono¹, Rui Tomori¹, Yasunori Suzuki², Dong-Liang Hu¹ (¹Lab. Zoonoses, Sch. Vet. Med., Kitasato Univ., ²Lab. Vet. Hygiene., Tokyo Univ. Agric. Tech.)

P1-036**Cases of EHEC(O185:H16) infection suspected to be associated with a restaurant group**

○Shun Hasegawa, Hiroko Takahashi, Takahiro Shimoda, Rui Endo, Hiroyuki Tukagoshi, Nobuhiro Saruki (Gunma Pref. Inst Public Health and Environ. Sci.)

P1-037**Regional Spread of Macrolide-Resistant *Bordetella pertussis* in Toyama Prefecture**

○Hina Shimizu¹, Jun-ichi Kanatani¹, Keiko Kimata¹, Kazuki Saito¹, Kaho Ikeda¹, Moe Oshima¹, Kosuke Tamura², Emi Maenishi², Hitoshi Sasajima², Ryosuke Isshiki³, Shohei Kusabiraki⁴, Shin-ichi Yagi⁵, Kazunori Oishi¹ (¹Dept. Bacteriol., Toyama Inst. Health, ²Dept. Res. Plann., Toyama Inst. Health, ³Kouseiren Takaoka Hospital, ⁴Kureha Kids Clinic, ⁵Yagi Pediatric Clinic)

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

P1-038**Characteristics of *Salmonella* Senftenberg expressing the R-phase H antigen**

○Chieko Kato¹, Takahiro Ochiai², Yuta Ohno², Ikuo Uchida³, Nobuo Arai⁴, Hidemasa Izumiya⁵, Tetsuya Ikeda², Masahiro Kusumoto^{4,6}, Masato Akiba³ (¹Hokkaido Kushiro Livest. Hyg. Serv. Ctr., ²Hokkaido Inst. Pub. Health, ³Sch. Vet. Med., Rakuno Gakuen Univ., ⁴Natl. Inst. Anim. Health, NARO, ⁵Natl. Inst. Infect. Dis., JIHS, ⁶Grad. Sch. Vet. Sci., Osaka Metropol. Univ.)

P1-039/FL1-03**Isolation and risk assessment of insect-philic fungi from human dermatitis**

○Sayaka Ban, Junko Ito, Takashi Yaguchi (Med. Mycol. Res. Cent., Chiba Univ.)

P1-040/FL1-04**Resistance of *Listeria monocytogenes* to disinfectants, heavy metals, and stress conditions**

○Hibiki Tsuchiya¹, Mizuki Hirao², Yumiko Okada³, Yukio Morita⁴, Yukako Shimojima^{1,2} (¹Grad. Sch. Food Nutr. Sci., Toyo Univ., ²F. Food Nutr. Sci., Toyo Univ., ³Div. Biomed. Food Res., Nat. Inst. Health Sci., ⁴Sch. Vet. Med., Azabu Univ.)

P1-041**Genetic characterization of carbapenem-resistant *Citrobacter braakii* isolated from North Macedonia**

Sora Miyazato¹, Nobuyoshi Yagi², ○Itaru Hirai³ (¹Lab. Microbiol., Dept. Health Sci., Grad Sch. Health Sci., Univ. Ryukyus, ²Lab. Clin. Physiol., Dept. Health Sci., Univ. Ryukyus, ³Lab. Microbiol., Dept. Health Sci., Univ. Ryukyus)

P1-042/FL1-05**Analysis of Distinctive Motility and Pathogenic Characteristics of Oral *Stenotrophomonas maltophilia***

○Saki Nishihama¹, Miki Kawada-Matsuo², Minh Ngoc Vo², Tomoki Kawayanagi¹, Yo Sugawara³, Motoyuki Sugai³, Hideki Shiba¹, Hitoshi Komatsuzawa² (¹Dept. Biol Endod., Grad. Sch. Biomed. and Health Sci., Hiroshima Univ., ²Dept. Bacteriol., Grad. Sch. Biomed. and Health Sci., Hiroshima Univ., ³Japan Inst Health Security)

P1-043**Profiling of bacterial biofilms on human lips: effects of Vaseline lip application**

Mirai Sekiguchi¹, Manami Imai¹, Rika Okabe¹, Anna Wakui^{1,2}, Yuki Kato¹, Haruna Sato¹, ○Takuichi Sato¹ (¹Div. Clinical Chemistry, Niigata Univ. Grad. Sch. Health Sciences, ²Dept. Med. Tech., Niigata Univ. Health Welfare)

P1-044**Profiling of microbiota isolated from smartphone screens: effectiveness of UV irradiation**

○Yuki Kato¹, Anna Wakui^{1,2}, Mirai Sekiguchi¹, Haruna Sato¹, Takuichi Sato¹ (¹Div. Clinical Chemistry, Niigata Univ. Grad. Sch. Health Sciences, ²Dept. Med. Technol., Niigata Univ. Health Welfare)

P1-045/FL1-06**Genomic analysis of extensively drug-resistant and multidrug-resistant *Acinetobacter baumannii* ST208**

○Satoshi Nishida¹, Yasuo Ono^{1,2}, Yusuke Yoshino¹ (¹Dept. Microbiol. Immunol., Sch. Med., Teikyo Univ., ²Fac. Health Med. Sci., Teikyo Heisei Univ.)

P1-046**Antimicrobial Resistance in *Cutibacterium acnes* from Acne Patients and Antibiotic Use History**

Koyo Yoshihara, Shoji Seyama, Sachi Mochizuki, ○Hidemasa Nakaminami (Depart. Clin. Microbiol., Sch. Pharm., Tokyo Univ. Pharm. Life Sci.)

P1-047/FL1-07**Clonal sharing of drug-resistant bacteria and microbial homogenization in ICU patients**

○Saki Nishihama¹, Yoshimasa Yasutomi², Hiromi Nishi³, Tomoki Kawayanagi¹, Mikari Asakawa⁴, Miki Kawada-Matsuo², Junzo Hisatsune⁵, Yo Sugawara⁵, Hideki Shiba¹, Hiroyuki Kawaguchi³, Toru Takeshita⁴, Motoyuki Sugai⁵, Hitoshi Komatsuzawa² (¹Dept. Biol. Endod., Grad. Sch. Biomed. and Health Sci., Hiroshima Univ., ²Dept. Bacteriol., Grad. Sch. Biomed. and Health Sci., Hiroshima Univ., ³Dept. General Dentistry, Hiroshima Univ. Hosp., ⁴Sect. Prev. & Public Health Dent., Div. Oral Health Growth & Dev., Fac. Dent. Sci., Kyushu Univ., ⁵Japan Inst. Health Security)

P1-048**Isolation and Characterization of Staphylococcal Phages from the Skin Surface of Pigs**

○Rui Tomori¹, Hisaya Ono¹, Akari Okada¹, Shinjiro Ojima², Matthew Imanaka², Kotaro Kiga², Dong-Liang Hu¹ (¹Lab. Zoonoses, Sch. Vet. Med. Kitasato Univ., ²Therapeutic Drugs Dev. Res. Center, NIID)

P1-049**Isolation of *Treponema medium* from Bovine Digital Dermatitis and completed the genome sequence**

○Akira Fukuda¹, Takashi Murakami², Noritsugu Abe³, Yasuhiko Suzuki⁴, Chie Nakajima⁵, Masaru Usui¹ (¹Dept. Food Microbiol. Food Safety., Vet Med., Rakuno Univ., ²Dept. Farm Anim. Surg., Vet Med., Rakuno Univ., ³Total Herd Management Service, ⁴Div. Res. Support., Vac. Res. and Devel., Hokkaido Univ., ⁵Int. Collabo.Unit., Inter. Insti. Zoonosis Control, Hokkaido Univ.)

P1-050**Phenotypic and genomic characterization of Shiga toxin subtypic 2e-producing *Escherichia coli* O26**

○Yuki Wakabayashi, Tetsuya Harada, Takao Kawai (Div. Microbiol., Osaka Inst. Pub. Health)

P1-051**Effect of DNase on biofilm formation in vancomycin-resistant *Enterococcus faecium* clinical isolates**

○Yuna Hamagata, Masashi Yanagihara, Shigefumi Okamoto (Dept. Clin. Lab. Biomed. Sci., Grad. Sch. Med., The Univ. Osaka)

P1-052/FL1-08**Longitudinal study of carriage of drug-resistant bacteria in the nasal and oral cavities**

○Kosuke Ueda^{1,2}, Tomoki Kawayanagi^{1,2}, Saki Nishihama^{1,2}, Miki Matsuo², Junzo Hisatsune³, Yo Sugawara³, Hideki Shiba¹, Motoyuki Sugai³, Hitoshi Komatsuzawa² (¹Dept. Biol. Endo., Grad. Sch. Biomed. & Health Sci., Hiroshima Univ., ²Dept. Bacteriol., Grad. Sch. Biomed. & Health Sci., Hiroshima Univ., ³Antimicrobial Research Ctr., National Inst. Infection Diseases)

1. Taxonomy / Epidemiology / Infectious diseases**-d. Methods for detection, identification, and diagnosis****P1-053/FL1-09****Correlation of Virulence Genetic Classification with Phenotypes in *Pseudomonas aeruginosa* Bacteremia**

○Takayuki Sano, Kohei Yamazaki, Yuka Tonosaki, Takashige Kashimoto (Dept. Vet. Public Health., Sch. Vet. Med., Kitasato Univ.)

P1-054**Cluster analysis of conjunctivitis by non-encapsulated *Streptococcus pneumoniae* via metagenomics**

○Moe Oshima¹, Jun-ichi Kanatani¹, Kazuki Saito¹, Kotoha Yoshida², Shunsuke Yazawa², Hideki Tani², Kosuke Tamura³, Emi Maenishi³, Hitoshi Sasajima³, Masanori Hashino⁴, Kazuhiro Horiba⁴, Bin Chang⁵, Yukihiko Akeda⁵, Koji Morita⁶, Kazunori Oishi¹ (¹Dept. Bacteriol., Toyama Inst. Health, ²Dept. Virol., Toyama Inst. Health, ³Dept. Res. Plann., Toyama Inst. Health, ⁴Lab. Microbial Genomics, Pathogen Genomics Center, NIID, JIHS, ⁵Dept. Bacteriol. I, NIID, JIHS, ⁶Morita Eye Clinic)

P1-055**Improvement of PCR Primers for Detection of *Mycoplasma mycoides* subsp. *mycoides***

○Mariko Okamoto¹, Akari Tachibana¹, Rana Okawaki², Eiji Hata^{1,3}, Daisuke Takamatsu¹ (¹Div. Infectious Animal Disease Research, NIAH, NARO, ²Seibu Livestock Hygiene Service Center, Tokushima, ³Dept. Animal Disease Control and Prevention, NIAH, NARO)

P1-056**A genetic method to analyze flagellin phase variation frequency in *Salmonella* Typhimurium**

○Momoko Nakayama¹, Nobuo Arai¹, Yohsuke Ogawa¹, Akari Tachibana¹, Sayaka Nishikawa¹, Masahiro Kusumoto^{1,2}, Masahiro Eguchi¹ (¹Natl. Inst. Anim. Health, NARO, ²Grad. Sch. Vet. Sci., Osaka Metro. Univ.)

P1-057**Tetanus Protective Antibody Assessment by Novel Tetanus Toxoid-Coated ELISA/IC**

○Chiyomi Sakamoto^{1,2}, Kohsuke Kumeda³, Mariko Nakamichi³, Chie Shitada^{1,2}, Susumu Yamaori³, Motohide Takahashi^{1,2} (¹Toxin and Biologicals Research Lab., Kumamoto Health Science Univ., ²The Chemo-Sero-Therapeutic Research Institute (KAKETSUKEN), ³KM Biologics Co., Ltd.)

P1-058/FL1-10**Development and evaluation of an α -1,3-Glucan detection probe for Aspergillosis diagnosis**

○Kento Suzuki, Daisuke Yamanaka, Yoshiyuki Adachi (Tokyo Univ. Pharm. Life Sci.)

P1-059**Gene Detection Kit for *S. aureus* Using CRISPR-Cas13a-Loaded Phage Capsids and Colorimetric Readout**

○Anujin Batbold^{1,2,3}, Xin Ee Tan¹, Tergel Nayanjin¹, Shinya Watanabe¹, Yoshifumi Aiba¹, Kazuhiko Miyanaga¹, Teppei Sasahara¹, Srivani Veeranarayanan¹, Yuzuki Shimamori¹, Yutaro Nishikawa³, Kotaro Kiga¹, Longzhu Cui¹ (¹Div. Bacteriol., Dept. Infect. Immun., Sch. Med., Jichi Med. Univ., ²Res. Ctr. Drug Vaccine Dev., Natl. Inst. Infect. Dis., ³Eiken chemical Co., Ltd)

P1-060/FL1-11**Equivalence evaluation of Japanese and ISO methods for *Clostridium* testing**

○Michio Jinnai^{1,2}, Eiki Yamasaki^{1,2}, Yukari Nishino², Tomokatsu Ota², Chihiro Sawada², Tetsuya Mori², Chie Monma², Yukako Shimojima², Yataro Kokubo², Yumiko Okada^{1,2} (¹Divi. Biomed. Food Res., Natl. Inst. Health Sci., ²Working Group on Standard Test Methods for Clostridia)

P1-061**Detection of oral bacteria genes from saliva using tablet medium**

○Kentaro Nagamine¹, Masae Kitagawa² (¹Dept. Clin. Nutr., Hiroshima International Univ., ²Kitagawa Dental Clinic)

P1-062/FL1-12**Ag85B-specific antibody levels for infection assessment and disease stratification in tuberculosis**

○Tomoya Yamazaki¹, Desak Nyoman Surya Suameitria Dewi², Satoshi Ishikawa^{1,3}, Yutaka Yoshida¹, Ni Made Mertaniasih⁴, Sohkiichi Matsumoto¹ (¹Dept. Bacteriol., Grad. Sch. Med. Dent. Sci., Niigata Univ., ²Dept. Microbiol., Sch. Med., Ciputra Univ., ³Fukuyama Zoo, ⁴Dept. Med. Microbiol., Fac. Med., Univ. Airlangga)

P1-063**Atmospheric spatial omics enables non-invasive surveillance of airborne respiratory infection**

○Tetsuro Matsunaga^{1,2,3}, Tomoaki Ida³, Seiryō Ogata⁴, Tianli Zhang^{1,2}, Masanobu Morita⁴, Hozumi Motohashi⁵, Takaaki Akaike³ (¹Comp. Center Infect. Dis. Control, Grad. Sch. Med., Akita Univ., ²Key Res. Lab., Akita Univ., ³Dept. Redox Mol. Med., Tohoku Univ. Grad. Sch. Med., ⁴Dept. Environ. Med. Mol. Toxicol., Tohoku Univ. Grad. Sch. Med., ⁵Dept. Gene Exp. Regulation, IDAC, Tohoku Univ.)

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

P1-064**Evaluation of Bacterial Contamination in Dental Unit Water**

○Katsuhito Sugai¹, Hitoshi Komatsuzawa², Miki Matsuo², Fukutaro Matsuo^{1,2}, Kotaro Tanimoto² (¹Dept. Orthodontics, Sch. Med., Hiroshima Univ., ²Dept. Microbiol., Sch. Med., Hiroshima Univ.)

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

P1-065**Metabolic Responses of oral *Veillonella* to Lactate-Fructose Co-Feeding**

○Izumi Mashima¹, Futoshi Nakazawa², Kiyoshi Murata³ (¹Dept. Oral Med. Sci., Sch. Dent., Ohu Univ., ²Dept. Oral Biol., Fac. Dent., Univ. Indonesia, ³Dept. Pharmacog. Nat. Resourc. Sci., Sch. Pharm. Sci., Ohu Univ.)

P1-066/FL1-13***Chlamydia trachomatis* Leverages Mitochondrial Signaling Interplay to Promote Intracellular growth**

○Tsubasa Tatsumiya, Torahiko Okubo, Hiroyuki Yamaguchi (Fac. Health Sci., Hokkaido Univ.)

P1-067**Characterization of TsdA/TsdT, a novel *Staphylococcus aureus* Toxin-Antitoxin system**

○Fuminori Kato¹, Masayori Inouye² (¹Grad. Sch. Biomed. Heal. Sci., Hiroshima Univ., ²CABM-Rutgers Univ.)

P1-068**Effect of D-mannose on the short-term survival and growth of *Streptococcus gordonii***

○Naoto Hayashida¹, Eri Kanabuchi² (¹Dept. Hyg., Nippon Dent. Univ., ²Dept. Microbiol., Nippon Dent. Univ.)

3. Physiology / Structural biology -b. Motility

P1-069**Light-activated cAMP signaling controls sodium-driven motility in *Vibrio cholerae***

○Jun Xu¹, Shuichi Nakamura², Suzuna Tomoyose¹, Reika Shimabuku¹, Rintaro Tomioka³, Tetsu Yamashiro¹ (¹Dept. Bacteriol., Grad. Sch. Med., Univ. Ryukyus, ²Dept. Appl. Phys., Grad. Sch. Eng., Tohoku Univ., ³Dept. Bioeng., Grad. Sch. Eng., Univ. Tokyo)

P1-070**Role of Lipopolysaccharide in Serum Resistance and Motility in *Leptospira***

○Kyosuke Takabe¹, Takuma Suzuki¹, Shuichi Nakamura², Nobuo Koizumi¹ (¹Dept. Bacteriol. 1, NIID, JIHS, ²Dept. Appl. Phys., Grad. Sch. Eng., Tohoku Univ.)

P1-071/FL1-14**Mutational and biochemical analyses of lateral flagellar stator complex in *Vibrio alginolyticus***

○Seiji Kojima¹, Kazuki Yokoyama¹, Michio Homma^{2,3}, Simon Brewer⁴, Norihiro Takekawa⁵ (¹Dept. Biol. Sci., Grad. Sch. Sci., Nagoya Univ., ²Dept. Biomol. Eng., Grad. Sch. Eng., Nagoya Univ., ³Dept. Phys., Grad. Sch. Sci., Nagoya Univ., ⁴Dept. Biol. Sci., Sch. Sci., Nagoya Univ., ⁵Dept. Macromol. Sci., Grad. Sch. Sci., Univ. Osaka)

P1-072/FL1-15**Viscosity-Dependent penetration of Confined Spaces by *Helicobacter* Species**

Sarara Yokohama¹, ○Naoki A Uemura¹, Yoshiki Shimada², Tsuyoshi Kenri³, Emiko Rimbara³, Testsuo Kan², Daisuke Nakane¹ (¹Dept. Eng. Sci., UEC, ²Dept. Mech. & Intell. Syst., UEC, ³Dept. Bact. II, NIID)

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

P1-073**Analysis of the chemotactic response using a V. parahaemolyticus mutant lacking all chemoreceptors**

○Hiroyuki Terashima¹, Hirotaka Tajima^{2,3}, Ikuro Kawagishi^{2,3,4}, Toshio Kodama⁵ (¹Col. Pharm., Kinjo Gakuin Univ., ²Dept. Frontier Biosci., Hosei Univ., ³Res. Cen. Micro-Nano Tech., Hosei Univ., ⁴Grad. Sch. Sci. Eng., Hosei Univ., ⁵Inst. Trop. Med. (NEKKEN), Nagasaki Univ.)

P1-074**Association between MreB and the VacA nanotransportation system in *Helicobacter pylori***

○Hong Wu¹, Yoshihiko Fujioka¹, Noritaka Iwai², Shoichi Sakaguchi¹, Youichi Suzuki¹, Takashi Nakano¹ (¹Dept. Microbiol. & Infect. Cont., Fac. Med., Osaka Med. & Pharm. Univ., ²Dept. Life Science and Technology, Science Tokyo)

P1-075/FL1-16**Phospho-Akt accumulates at inclusion membrane microdomains in *Chlamydia trachomatis* infected cells**

○Taiki Deguchi, Sora Kuroiwa, Miyu Neshiro, Shinji Nakamura, Torahiko Okubo, Hiroyuki Yamaguchi (Fac. Health Sci., Hokkaido Univ.)

P1-076**Long-chain *Streptococcus* strain SN-1^T inhibits cariogenic biofilm formation**

○Masanori Saito¹, Noriko Kuwahara², Tomomi Takizawa¹, Hidenobu Senpuku¹ (¹Dept. Microbiol. Immunol., Sch. Dent. Matsudo, Nihon Univ., ²Dept. Biochem., Mol. Biol., Sch. Dent. Matsudo, Nihon Univ.)

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

P1-077**Novel periplasmic layer formed by an outer membrane lipoprotein governs *L. interrogans* stiffness**

○Shuichi Nakamura¹, Keigo Abe¹, Hiroko Takazaki², Miki Hirose², Kyosuke Takabe³, Takayuki Kato², Nobuo Koizumi³ (¹Grad. Sch. Eng., Tohoku Univ., ²IPR, Osaka Univ., ³Dept. Bacteriol. I, NIID, JIHS)

P1-078/FL1-17**Effects of membrane vesicles released by *S. mutans* on bone resorption during orthodontic force**

○Kosuke Matsuura¹, Hidenobu Senpuku², Shinichi Negishi¹ (¹Dept. Orthodontics., Sch. Dent., Nihon Univ. Matsudo, ²Dept. Microbiol. Immunol., Sch. Dent., Nihon Univ Matsudo)

P1-079/FL1-18**Characterization of extracellular polysaccharide-like matrix in a pneumococcal *spuA* knockout mutant**

○Mayu Yasukawa¹, Masayuki Ono^{2,3}, Aoi Toma², Wakaba Mizuno², Yasuo Ikagawa¹, Kotaro Higashi⁴, Yujiro Hirose², Masaya Yamaguchi⁵, Shigefumi Okamoto¹, Shigetada Kawabata^{2,6} (¹Dept. Clin. Lab. Biomed. Sci., Grad. Sch. Med., UOsaka, ²Dept. Microbiol., Grad. Sch. Dent., UOsaka, ³Bioinf. Res. Unit, Grad. Sch. Dent., UOsaka, ⁴Dept. Removable Prosthodont. Gerodont., Grad. Sch. Dent., UOsaka, ⁵NIBN, ⁶CiDER, UOsaka)

P1-080**BamB mutant L-forms reveal genetically linked pathways & systems**

○Nicholas Maczuga, Takuya Shiota (Frontier Science Research Center, Dept. Biological Science, Div. RI Research Kiyotake, Univ. Miyazaki)

P1-081**Combination of APBT and safranin O was useful for analysis of spore structure in Bacillales species**

○Ritsuko Kuwana, Kiyoshi Ito, Hiromu Takamatsu (Fac. Pharm. Sci. Setsunan Univ.)

P1-082**Sugar-Dependent Variation in Morphogenesis and Sporulation in *Bacillus subtilis* Strains**

Ritsuko Kuwana¹, Keiko Kotsuna², Keiichiro Imaizumi², Takanori Miyoshi², ○Hiromu Takamatsu¹ (¹Fac. Pharm. Sci., Setsunan Univ., ²Asahi Meguro Inst., Ltd.)

P1-083**Acetyl modification and host recognition of a novel glycopeptidolipid from *M. intracellulare* ku 11**

○Nagatoshi Fujiwara¹, Makoto Nakaya², Yoshihiko Hoshino², Shinji Maeda³ (¹Fac. Contemp. Hum. Life Sci., Tezukayama Univ., ²Leprosy Res. Cent., Nat. Instit. Infec. Dis., ³Facult. Pharm., Hokkaido Univ. Sci.)

P1-084**The nucleotide exchange factor GrpE is essential for the localization of cell division proteins**

○Liz Ishikawa¹, Rintaro Shigemori^{1,2,3}, Keiichiro Hara^{1,2,3}, Yuki Kinjo^{1,2}, Shinya Sugimoto^{1,2,3} (¹Dept. Bacteriol., Jikei Univ. Sch. Med., ²Cent. Biofilm Sci. Technol., Jikei Univ. Sch. Med., ³Lab. Amyloid Regulation, Jikei Univ. Sch. Med.)

P1-085/FL1-19**β-Glucan synthase inhibitors induce surface polysaccharide remodeling in *Cryptococcus neoformans***

○Leo Enomoto, Daisuke Yamanaka, Yoshiyuki Adachi (Tokyo Univ. Pharm. Life Sci.)

P1-086/FL1-20**Fluorescent imaging method for fungal polysaccharides using function-modified glycoside hydrolase**

○Daisuke Yamanaka, Kento Suzuki, Yoshiyuki Adachi (Tokyo Univ. Pharm. Life Sci.)

P1-087/FL1-21**Inhibition of β-glucan synthesis in *Aspergillus* and changes in polysaccharide composition**

○Takenori Chika, Kento Suzuki, Daisuke Yamanaka, Yoshiyuki Adachi (Tokyo Univ. Pharm. Life Sci.)

P1-088**Visualization of antibiotic-induced structural changes in *Escherichia coli* peptidoglycan**

○O. Yuhei Tahara^{1,2}, Makoto Miyata² (¹Grad. Sch. Eng., Osaka Metropolitan Univ., ²Grad. Sch. Sci., Osaka Metropolitan Univ.)

P1-089**Serine affects engulfment during the sporulation process in *Clostridium perfringens* strain SM101**

○Mayo Yasugi^{1,2}, Kanon Kataoka¹, Akinobu Ohta¹, Keiko Takano¹, Masami Miyake^{1,2} (¹Grad. Sch. Vet. Sci., Osaka Metro. Univ., ²Osaka Int. Res. Cent. Infect. Dis.)

P1-090**Development of a drug discovery platform targeting fungal cell wall polysaccharide structures**

○Shion Komine, Daisuke Yamanaka, Yoshiyuki Adachi (Tokyo Univ. Pharm. Life Sci.)

P1-091**Investigation of the essentiality of PGN_0298 and PGN_0301 in *Porphyromonas gingivalis***

○Shintaro Ono¹, Katsuki Takebe², Ikue Tosa^{3,4}, Yuki Nishiya⁵, Masaaki Nakayama³, Syogo Takashiba¹, Naoya Ohara^{3,4,6} (¹Dept. Pathophysiol. Periodontal Sci., Fac. Med., Dent. Pharm. Sci., Okayama Univ., ²Dept. Dent. Pharmacol., Fac. Med., Dent. Pharm. Sci., Okayama Univ., ³Dept. Oral Microbiol., Fac. Med., Dent. Pharm. Sci., Okayama Univ., ⁴Adv. Res. Ctr. Oral Craniofac. Sci., Okayama Univ., ⁵Dept. Oral Maxillofac. Reconstructive Surg., Grad. Sch. Med., Dent. Pharm. Sci., Okayama Univ., ⁶Res. Ctr. Intest. Health Sci., Okayama Univ.)

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

P1-092**Development of Novel Marker Genes for Multidrug-Resistant Bacteria Research**

○Mari Nakagami, Akio Abe (Grad. Sch. Infect. Contr. Sci., Kitasato Univ.)

3. Physiology / Structural biology -f. Others

P1-093**Number of cell wall-binding repeats required for the localization of Acp in *Clostridium perfringens***

○Riyo Aono^{1,2}, Nozomu Matsunaga², Miyu Shiraga³, Hirofumi Nariya⁴, Hiroshi Sekiya⁵, Eiji Tamai⁵, Seiichi Katayama² (¹Dept. Med. Tech., Kagawa Pref. Univ. Health Sci., ²Dept. Med. Technol., Fac. Life Sci., ³Dept. Natural Sci., Grad. Sch. Science and Engineering, Okayama Univ. Sci., ⁴Dept. Food Sci., Fac. Human Life, Jumonji Univ., ⁵Dept. Infectious Diseases, Col. Pharm. Sci., Matsuyama Univ.)

P1-094**Structure-Based Design of Protein Inhibitors Targeting the TolC Drug Efflux Channel**

○Mikio Tanabe¹, Takahiro Kosugi², Toshio Moriya¹ (¹Struct. Biol. Res. Center. IMSS, KEK, ²ExCells, Inst. Mol. Sci, Natl. Inst. Nat. Sci.)

P1-095**Characterization of mycobacterial intrinsically disordered histone-like protein/DNA phase separation**

○Akihito Nishiyama¹, Noriyuki Kodera², Mika Shioya¹, Mahin Reza¹, Yutaka Yoshida¹, Yuriko Ozeki¹, Amina K. Shaban¹, Atsuki Takeishi¹, Sohkiichi Matsumoto¹ (¹Dept. Bacteriol., Niigata Univ. Sch. Med., ²NanoLSI, Kanazawa Univ.)

P1-096**Functional analysis of toxin-antitoxin systems in *Bordetella pertussis***

○Masataka Goto, Nao Otsuka, Tsuyoshi Kenri (Dept. Bacteriol. II, NIID)

P1-097**Identification of antigen region of *T. pallidum* OMPs using an in vitro reconstitution system**

○Yuya Iwakiri¹, Takuya Shiota², Yuki Maruno³ (¹Sch. Agri., Univ. Miyazaki, ²Front. Sci. Res. Cent., Univ. Miyazaki, ³Interdiscip. Grad. Sch. Agri. Eng., Univ. Miyazaki)

P1-098/FL1-22**Ribosome-mediated regulation of zinc susceptibility in *Escherichia coli***

○Riko Shirakawa, Kazuya Ishikawa, Kazuyuki Furuta, Chikara Kaito (Lab. Mol. Biol., Grad. Sch. Med. Dent. Pharm., Okayama Univ.)

P1-099**Cross-species amyloid motifs link mammalian and bacterial proteins**

○Weichen Gong (Lab. Animal Food Function, Grad. Sch. Agricultural Science, Tohoku Univ.)

P1-100/FL1-23**Cell wall-deficient cells formed in *Pseudomonas aeruginosa***

○Natsuki Sugiyama¹, Jun Harada¹, Shusaku Kanematsu¹, Nobuhiko Nomura^{2,3,4}, Masanori Toyofuku^{2,3} (¹Grad. Sch. Life Environ. Sci., Univ. Tsukuba, ²Fac. Life Environ. Sci., Univ. Tsukuba, ³MiCS/TIAR, Univ. Tsukuba, ⁴TARA, Univ. Tsukuba)

P1-101/FL1-24**Characterization of a novel inward proton pump rhodopsin, GhXeR, from *Gyptibacillus hwajinpoensis***

○Tatsuro Nishikino^{1,2}, Nanako Hattori¹, Yuma Ito¹, Yuji Furutani^{1,2}, Hideki Kandori^{1,2} (¹Grd. Sch. Eng., Nagoya Inst. Tech., ²OptoBio Tech. Res. Cent., Nagoya Inst. Tech.)

P1-102/FL1-25

Visualization of ATP-Dependent Conformational Dynamics of T4 DNA Ligase in Solution

○Nobuki Kuwabara, Takashi Matsumoto (Rigaku Corporation)

5. Pathogenicity -a. Adhesins and colonization factors

P1-103

Identification of *Streptococcus gordonii* novel adhesins specific to sialidase-treated erythrocytes

○Mayumi Uchikawa¹, Keitaro Saiki², Yuiko Ishikawa³, Yumiko Tashiro¹, Yuki Yamanaka¹, Yukihiko Takahashi¹, Eri Kanabuchi¹, Naoto Hayashida⁴ (¹Dept. Microbiol., Nippon Dent. Univ. Sch. Life Dent. at Tokyo, ²Dept. Biochemi., Nippon Dent. Univ. Sch. Life Dent. at Tokyo, ³Gen. Dent., Nippon Dent. Univ. Hosp., ⁴Dept. Hygiene., Nippon Dent. Univ. Sch. Life Dent. at Tokyo)

P1-104/FL1-26

Functional analysis of the *kdp* gene cluster in gut colonization by *Mediterraneibacter gnavus*

○Ryu Ashina¹, Nobuhiko Nomura^{2,3}, Nozomu Obana^{3,4}, Shinji Fukuda^{3,4,5,6,7} (¹Deg. Prog. In Life & Earth Sci., Grad. Sch. Sci. & Technol., Univ. Tsukuba, ²Fac. Life Environ. Sci., Univ. Tsukuba, ³MiCS, Univ. Tsukuba, ⁴TMRC, Inst. Med., Univ. Tsukuba, ⁵Inst. Adv. Biosci., Keio Univ., ⁶KISTEC, ⁷Inst. Med., Univ. Juntendo)

P1-105

Genetic toolkit reveals capsular polysaccharides as a colonization factor in *M. gnavus*

○Nozomu Obana^{1,2}, Gaku Nakato^{3,4}, Nobuhiko Nomura^{2,5,6}, Shinji Fukuda^{1,2,3,4,7} (¹Inst. Med., Univ. Tsukuba, ²MiCS, Univ. Tsukuba, ³Gut-Link Lab, Grad. Sch. Med., Juntendo Univ., ⁴KISTEC, ⁵Inst. Life Environ. Sci., Univ. Tsukuba, ⁶TIAR, Univ. Tsukuba, ⁷Inst. Adv. Biosci., Keio Univ.)

P1-106

Identification of a MAP cell-surface protein that binds to bovine intestinal C-type lectin

○Reiko Nagata¹, Satoko Kawaji¹, Yasuhiko Suzuki^{2,3}, Chie Nakajima^{2,3} (¹NIAH, Naro, ²IVReD, Hokkaido Univ., ³IIZC, Hokkaido Univ.)

P1-107

Role and Analysis of TusDCB in the Enteropathogenicity of Enterohemorrhagic *Escherichia coli*

Yumika Sato, Haruyoshi Tomita, ○Hidetada Hirakawa (Dept. Bacteriol., Sch. Med., Gunma Univ.)

P1-108/WS8-5

Elucidation of the Mechanisms Underlying *Klebsiella* Intestinal Colonization in Mono-Colonized Mice

○Haruka Fukamachi¹, Shintaro Maeno², Itsuki Taniguchi³, Yasuhiro Gotoh⁴, Hirobumi Morisaki¹, Nobuo Okahashi¹, Tomoki Makiura¹, Tetsuya Hayashi³, Hirotaka Kuwata¹ (¹Dept. Oral Microbiol. Immunol. Sch. Dent., Showa Med. Univ., ²Org. Res. Ini., Yamaguchi Univ., ³Dept. Bacteriol., Grad. Sch. Med., Sci., Kyushu Univ., ⁴Advanced Genomics Center. National Institute of Genetics)

P1-109

ArcAB two-component system orchestrates pathogenicity in *Vibrio cholerae*

○Jant Cres Caigoy¹, Nariya Hirofumi², Toshi Shimamoto¹, Zhiqun Yan^{3,4}, Tadashi Shimamoto¹ (¹Grad. Sch. Int. Sci. Life, Hiroshima Univ., ²Grad. Sch. Human Life Sci. Jumonji Univ., ³Grad. Sch. Biosph. Sci. Hiroshima Univ., ⁴Res. Cent. Maruzen Pharm. Co. Ltd)

P1-110

Influence of the NaCl concentration in culture media on virulence factors of *E. piscicida*

○Chigusa Suezawa^{1,2}, Ryo Nishioka², Junya Nakagawa², Nohara Sasaki², Yoshimitsu Hiejima³, Yasuhiko Kawato⁴, Jun Okuda^{1,2} (¹Dept. Med. Tech., Kagawa Pref. Univ. Health Sci., ²Dept. Clin. Exam., Grad. Sch. Kagawa Pref. Univ. Health Sci., ³Dept. Nurs., Kagawa Pref. Univ. Health Sci., ⁴FRA FTI)

P1-111

Chain-like adhesion diversify surface colonization strategies in Shiga toxin-producing *E. coli*

○Yuto Kotaka^{1,2}, Naoki Uemura³, Tadayuki Iwase⁴, Ken-ichi Lee², Nozomi Ishijima², Daisuke Nakane³, Yukihiko Akeda², Sunao Iyoda² (¹Dept. Biol. Sci., Tokyo Metropolitan Univ., ²Dept. Bacteriol. 1, Natl. Inst. Infect. Dis., ³Dept. Eng. Sci., Univ. Electro-Commun., ⁴Res. Cent. Med. Sci., Jikei Univ.)

P1-112

Distinct Motifs in Mfa1 and Mfa53 Pilins Underlie the Immune Evasion Strategy of *P. gingivalis*

○Satoshi Shibata^{1,2}, Hideyuki Matsunami³, Matthias Wolf³, Norihiro Takekawa⁴, Katsumi Imada⁴, Yuri Taniguchi⁵, Kazuhisa Ouhara⁵ (¹Div. Bacteriol., Dept. Microbiol & Immunol., Fac. Med. Tottori Univ., ²AIDGH, Tottori Univ., ³Mol. Cryo-EM Unit, OIST, ⁴Dept. Macromol. Sci., Grad. Sch. Sci., Osaka Univ., ⁵Dept. Periodontal Medicine, Grad. Sch. Biomed. & Health Sci., Hiroshima Univ.)

P1-113

Fap2 and CmpA enhance coculture biofilm formation between *F. nucleatum* and *A. actinomycetemcomitans*

○Yuichi Oogai, Airi Matsumoto, Masanobu Nakata (Dept. Oral Microbiol., Sch. Med. and Dent., Kagoshima Univ.)

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

P1-114

Effects of Temperature and Nutritional Conditions on the Pathogenicity of *Staphylococcus aureus*

○Zuo Hu, Yuri Sakamoto, Mio Nagashima, Hisaya Ono, Dong-Liang Hu (Kitasato Univ. School. Vet. Med.)

P1-115

Serum-Dependent Release of Periodontal Pathogen Virulence Factors Enhanced by *Candida albicans*

○Hiraku Take^{1,2}, Masayo Abe¹, Amano Shigeru³, Hitoshi Sakagami³, Nobuharu Yamamoto², Megumi Inomata¹ (¹Div. Microbiol. Immunol., Sch. Dent., Meikai Univ., ²Div. Oral Surg., Sch. Dent., Meikai Univ., ³Res. Inst. Odontol., Sch. Dent., Meikai Univ.)

P1-116/WS8-1

Construction of the gene knockout system for *Candida auris* and identification of the virulent factor

○Kazushi Hashimoto, Hinako Wada, Ni Anggareni, Xinyue Chen, Kanami Orihara, Susumu Kajiwara (Dept. Life Sci. & Tech., Sch. Life Sci. & Tech., Inst. Science Tokyo)

P1-117

Legionella pneumophila utilizes Rab32 to facilitate the association of vacuole with mitochondria

○Hiromu Oide¹, Tomoko Kubori², Kohei Arasaki¹ (¹Sch. Life Sci., Tokyo Univ. Pharm and Life Sci., ²Dept. Microbiol., Sch. Med., Gifu Univ.)

P1-118/FL1-27

Phosphotransacetylase in Environment-Dependent SPII Regulation

○Aya Fujimoto¹, Kana Eguchi², Akiko Takaya^{2,3} (¹Dep. Infect. Cont. Sci., Fac. Pharm. Sci., Chiba Univ., ²Dep. Infect. Cont. Sci., Grad. Sch. Pharm. Sci., Chiba Univ., ³MMRC, Chiba Univ.)

P1-119/WS8-2

Exacerbation mechanisms of bacterial infection through inflammasome-mediated inflammatory responses

○Hideki Hara, Yasuyuki Matsuda, Hajime Yamauchi (Dept. Microbiol. Immunochem., Asahikawa Med. Univ.)

P1-120/WS8-3

Function analysis of pneumococcal protease in intrinsic hierarchical autophagy

○Sayaka Shizukuishi, Michinaga Ogawa, Yukihiro Akeda (Bacteriol. I, Nat. Inst. Infect. Dis., JIHS)

P1-121/FL1-28

Pathogenic factors of enterotoxigenic *Escherichia coli* and host responses in *Caenorhabditis elegans*

○Chinatsu Yamamura¹, Anri Matsuda¹, Yoshihiko Tanimoto^{1,2,3}, Ryohei Nomoto⁴, Takayuki Wada^{1,5}, Eriko Nakadai^{1,2,3} (¹Dept. Microbiol. Grad. Sch. Hum. Life Ecol., Osaka Metro. Univ., ²Grad. Sch. Biostudies, Kyoto Univ., ³LiMe, Kyoto Univ., ⁴Kobe Inst. Heal., ⁵Osaka Intl. Res. Ctr. Infect. Dis., Osaka Metro. Univ.)

P1-122/FL1-29

Identification of intestinal actinomycete metabolites and suppressive effects on CDI mouse model

○Kanao Matsumoto¹, Kaho Shimamura¹, Akira Take Take², Kazuyoshi Gotoh³, Rie Kinoshita³, Nahoko Tomonobu³, Kenichi Yamamoto³, Masaya Takehara⁴, Shinya Shiomi¹, Miwa Kubo¹, Mitsutaka Wakuda⁵, Masakiyo Sakaguchi³, Haru Kato⁶, Naoki Ohmiya⁵, Yoshihiko Sakaguchi¹ (¹Fac. Pharm. Sci., Tokushima Bunri Univ., ²Facul. Lif. Environ. Sci., Univ. Yamanashi, ³Grad. Sch., Okayama Univ., ⁴Fac. Pharm., Juntendo Univ., ⁵Adv. Endo., Fujita Heal. Univ. Sch. Med., ⁶Antimicro. Resist. Res. Cent., Nat. Instit. Infect. Dis.)

P1-123

Characterization of novel enterotoxin, SE01 produced by CA-MRSA

○Yusuke Sato¹, Junzo Hisatsune², K. Hisaya Ono³, Akio Nakane^{4,5}, Dong-Liang Hu³, Motoyuki Sugai² (¹Infect. Cont. and Immun., Fac. Vet. Med., Azabu Univ., ²Antimicrob. Resist. Res. Cent, Nat. Inst. Infect. Dis., ³Zoonoses, Vet., Kitasato Univ., ⁴Dept. Nursing, Sch. Health Sci., Hirosaki Univ. Health & Welfare, ⁵Dept. Biomol. Hlth. Sci., Grad. Sch. Med., Hirosaki Univ.)

P1-124

Investigation of Autophagy-Related Pathways in Antidepressant-Enhanced Cell Death Induced by Cholix

○Hiyo Nagahara¹, Yukino Fujita¹, Kazuya Ozaki², Kento Ohtani¹, Michinaga Ogawa³, Sunao Iyoda³, Kinnosuke Yahiro¹ (¹Dept. Microbiol. Infection Control, Sch. Pharm., Kyoto Pharmaceutical Univ., ²Dept. SANKEN, Osaka Univ., ³Dept. Bacteriol. I, National Institution of Infectious Diseases)

P1-125

The analysis of N-terminal repeat domain of MARTX toxin in *Vibrio vulnificus* M2799

○Ryoma Tasaki¹, Yukina Mori¹, Takahiro Tsuchiya^{1,2}, Jun Komano¹, Hiroshi Tsujibo¹, Tomotaka Tanabe³, Tatsuya Funahashi³, Katsushiro Miyamoto¹ (¹Dept. Microbiol. Infect. Cont., Osaka Med. Pharm. Univ., ²Ctr. Advance. Pharm. Educ., Osaka Med. Pharm. Univ., ³Dept. Hyg. Chem., Col. Pharm. Sci., Matsuyama Univ)

P1-126/FL1-30**Functional Analysis of Biogenic Polyamines in the Pathogenicity of *Vibrio parahaemolyticus***

○Kai Ishida¹, Takaaki Shimohata², Akira Takahashi³, Takaaki Nakaya¹ (¹Dept. Infectious Diseases, Sch. Med, Kyoto Prefectural Univ. Med., ²Marine-Bio, Fukui Prefectural Univ., ³Dept. Prev Environ Nutr., Inst. Biomed Sci., Tokushima Univ.)

P1-127**The analysis of MARTX toxin in *Vibrio vulnificus* M2799**

○Yukina Mori¹, Ryoma Tasaki¹, Takahiro Tsuchiya^{1,2}, Jun Komano¹, Hiroshi Tsujibo¹, Tomotaka Tanabe³, Tatsuya Funahashi³, Katsushiro Miyamoto¹ (¹Dept. Microbiol. Infect. Cont., Osaka Med. Pharm. Univ., ²Ctr. Advance. Pharm. Educ., Osaka Med. Pharm. Univ., ³Dept. Hyg. Chem., Col. Pharm. Sci., Matsuyama Univ.)

P1-128**Development of novel human monoclonal antibodies against botulinum neurotoxin type F**

○Tomoko Kohda, Ayuha Miyazaki, Seiji Tarumizu, Jun Katahira (Grad. Sch. Vet. Sci., Osaka Metropolitan Univ.)

P1-129**The mechanism underlying the cytotoxicity of a type III effector in *P. aeruginosa* toward host cells**

Jun Okuda^{1,2}, ○Taiyo Okada², Ryo Nishioka², Junya Nakagawa², Yoshimitsu Hiejima³, Chigusa Suezawa^{1,2} (¹Dept. Med. Tech., Kagawa Pref. Univ. Health Sci., ²Dept. Clin. Exam., Grad. Sch. Kagawa Pref. Univ. Health Sci., ³Dept. Nurs., Kagawa Pref. Univ. Health Sci.)

P1-130**Effects of *M. intracellulare* D-Amino Acids on Gene Expression in Macrophages and Lung Fibroblasts**

○Yutaka Tatano¹, Tatsuo Munakata¹, Madoka Sawai¹, Hideki Yagi², Chiaki Sano³, Haruaki Tomioka⁴ (¹Dept. Pharm. Sci., Sch. Pharm. Fukuoka, IUHW, ²Dept. Pharm. Sci., Sch. Pharm., IUHW., ³Dept. Community. Med. Mgt., Fac. Med., Shimane Univ., ⁴Fac. Med., Shimane Univ.)

P1-131**Investigation for β -hemolysin-dependent pathogenicity of *Streptococcus didelphis***

○Kota Tamura¹, Toshifumi Tomoyasu^{1,2}, Hideaki Nagamune¹, Atsushi Tabata^{1,2} (¹Dept. Biosci. & Bioindust., Fac. Biosci. & Bioindust., Tokushima Univ., ²Div. Biosci. & Bioindust., Grad. Sch. Tech., Indust. & Soc. Sci., Tokushima Univ.)

P1-132/FL1-31**Development of a marker-based isolation method for *P. aeruginosa* extracellular vesicles**

○Mayuko Oka^{1,2}, Takumi Suenaga², Yasuhiko Horiguchi³ (¹Food Hyg. and Environ. Health, Life and Env. Sci., Kyoto Pref. Univ., ²Food Hyg. and Environ. Fac. Life and Env. Sci. Kyoto Pref. Univ., ³Dept. Mol. Bacteriol., RIMD, Osaka Univ.)

P1-133**Mechanistic Elucidation of Vacuolation Induced by *Escherichia coli* Derived Outer Membrane Vesicles**

○Teresia Kimeu, Kazunori Murase, Atsuko Minowa-Nozawa, Takashi Nozawa, Ichiro Nakagawa (Dept. Microbiol. Sch. Med., Kyoto Univ.)

P1-134/WS8-4**Suppression of osteoclast differentiation by K. pneumoniae-derived extracellular vesicles (KpEVs)**

○Hitoshi Tsugawa^{1,2}, Touya Toyomoto¹, Shogo Tsubaki¹, Daisuke Sakai³, Jin Imai^{2,4} (¹TranSiR, Div. Host Defense Mech., Tokai Univ., Sch. Med., ²The Inst. Med. Sci., Tokai Univ., ³Dep. Ortho. Sur., Tokai Univ., Sch. Med., ⁴Dep. Clin. Heal. Sci., Tokai Univ., Sch. Med.)

P1-135**Intracellular Ca²⁺ influx-dependent inflammatory responses induced by SLS produced from *S. anginosus***

○Yugo Yamamori¹, Toshifumi Tomoyasu², Hideaki Nagamune², Atsushi Tabata² (¹Div. Sci. & Tech. for Innov., Grad. Sch. Sci. & Tech. for Innov., Tokushima Univ., ²Div. Biosci. & Bioindust., Grad. Sch. Tech., Indust. & Soc. Sci., Tokushima Univ.)

P1-136/FL1-32**Mechanism of toxin neutralization by intracellular antibody delivery using detoxified BoNT**

○Shin-Ichiro Miyashita, Honoka Nagatake, Rintaro Ohno, Hanae Kojima, Yoshimasa Sagane (Dept. Food, Aroma Cosmetic Chem., Fac. Bioindustry, Tokyo NODAI)

P1-137**Analysis of carboxy-terminal domain of metalloprotease produced by *Aeromonas hydrophila***

○Eizo Takahashi¹, Sadayuki Ochi¹, Koki Kojima¹, Ryoya Uchinuno¹, Tatsuyoshi Nakamura¹, Yoshiki Togawa¹, Hidetomo Kobayashi², Soshi Seike², Hiroyasu Yamanaka², Keinosuke Okamoto³ (¹Fac. Pharm. Sci., Yokohama Univ. Pharm., ²Fac. Pharm. Sci., Hiroshima Int. Univ., ³Colla. Res. Cent. Infect. Dis. Ind., Okayama Univ.)

P1-138**DNase Activity of *Prevotella intermedia* Impairs Biofilm Development and NETs Formation**

○Fumi Seto-Tetsuo, Yuko Sasaki, Hideharu Yukitake, Mariko Naito (Dept. Microbiol. Oral Infection, Infection Res, Grad. Sch. Biomed. Sci., Nagasaki Univ.)

P1-139**Pathogenicity in Non-H. pylori Helicobacter Assessed Through Standardized Infection Models**

○Sae Aoki, Hidenori Matsui, Tsuyoshi Kenri, Emiko Rimbara (Dept. Bacteriol. II, NIID, JIHS)

P1-140**ELISA-Based Tetanus Toxin Evaluation System as Alternative to Animal Testing**

○Chie Shitada¹, Chiyomi Sakamoto^{1,3}, Kohsuke Kumeda², Susumu Yamaori², Motohide Takahashi^{1,3} (¹Toxin & Biol. Lab., Kumamoto Health Sci. Univ., ²KM Biologics Co., Ltd., ³KAKETSUKEN)

P1-141/FL1-33**Characterization of Oral Toxicity-Enhancing HA-33 Variants in Botulinum Toxin Serotypes C and D**

○Hanae Kojima, Shin-Ichiro Miyashita, Rintaro Ohno, Misaki Sato, Yoshimasa Sagane (Dept. Food Aroma Cosmetic Chem., Fac. Bioindustry, Tokyo NODAI)

P1-142/FL1-34**Elucidation of the cytotoxic mechanism of Botulinolysin 2**

○Rintaro Ohno, Shin-Ichiro Miyashita, Hanae Kojima, Yoshimasa Sagane (Dept. Food Aroma Cosmetic Chem., Fac. Bioindustry, Tokyo NODAI)

P1-143**Molecular basis of host factor-mediated pathogenicity of SubAB from Shiga toxin-producing *E. coli***

○Hiroyasu Tsutsuki¹, Tianli Zhang², Kinnosuke Yahiro³, Takaaki Akaike⁴, Tomohiro Sawa⁵ (¹Dept. Clin. Microbiol., Grad. Sch. Med. Sci., Kumamoto Univ., ²Cent. Integr. Cont. Epidemiol. Mol. Pathophysiol. Infect. Dis., Akita Univ., ³Dept. Microbiol. Infect. Cont. Sci, Kyoto Pharm. Univ., ⁴Dept. Redox Mol. Med., Tohoku Univ. Grad. Sch. Med., ⁵Dept. Microbiol., Grad. Sch. Med. Sci.)

5. Pathogenicity -c. Cell invasion and intracellular parasitism

P1-144**Functional analysis of sulfide: quinone oxidoreductase in *Mycobacterium tuberculosis***

○Yuichi Matsuo¹, Tomoo Shiba², Jun-ichi Kishikawa², Kenji Iyota², Uta Nakai², Akina Ota², Tomohiro Sawa³, Touya Toyomoto⁴, Kiyoshi Kita⁵, Daniel Ken Inaoka^{5,6,7} (¹Dept. Environmental and Preventive Medicine, Fac. Med., Oita Univ., ²Dept. Applied Biol., Grad. Sch. Sci. Tec., Kyoto Inst. Technology, ³Dept. Microbiol., Grad. Sch. Med., Kumamoto Univ., ⁴Dept. Host Def., Sch. Med., Tokai Univ., ⁵Sch. Tropical Med. and Global Health, Nagasaki Univ., ⁶Dept. Molecular Infection Dynamics, Inst. Tropical Medicine (NEKKEN), Nagasaki Univ., ⁷Dept. Host-Defense Biochem., Inst. Tropical Medicine (NEKKEN), Nagasaki Univ.)

P1-145/FL1-35**The effect of succinate metabolism on *Campylobacter jejuni* virulence**

○Mana Makimoto^{1,2}, Takaaki Shimohata^{1,2}, Shiho Fukushima¹, Saki Yamanaka¹, Takashi Uebanso¹, Kazuaki Mawatari¹, Akira Takahashi¹ (¹Dept. Prevent. Environ. Nutr., Inst. Biomed. Sci., Tokushima Univ. Grad. Sch., ²Marine Bio., Fukui Prefect Univ.)

P1-146/WS8-6**Gaining a mechanistic insight into chronic infection by *S. Paratyphi C* in mice**

○Satoshi Takayama¹, Masatomo Morita², T Hoan Pham¹, Toshio Kodama¹, Hiroataka Hiyoshi¹ (¹Dept. Bacteriol., Ins. Trop. Med., Nagasaki Univ., ²Dept. Bacteriol. I, Natl. Inst. Infect. Dis.)

P1-147**Role of Siderophore-Mediated Iron Acquisition in the Pathogenesis of *Campylobacter jejuni***

○Shiho Shiraiishi, Takao Kawai (Div. Microbiol., Bacteriol. Sect., OIPH)

P1-148**Analysis of the invasion mechanism of *Salmonella Gallinarum* in chicken intestinal epithelium**

○Chihiro Aikawa, Nanami Shinozaki, Manabu Yamada, Shotaro Suzuki, Rahman Nahid, Masashi Okamura (Dept. Vet. Med., Obihiro Univ. Agri. Vet. Med.)

P1-149/FL1-36**The Rgg2/3 Quorum-Sensing System Regulates GAS Intracellular Infection Dynamics**

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

P1-150/FL1-37**The role of host DNAJC14 in *Francisella tularensis* infection**

Takemasa Nakamura¹, ○Takashi Shimizu², Kenta Watanabe³, Akihiko Uda⁴, Masahisa Watarai³ (¹Dept. Appl. Chem., Grad. Sch. Engr., Univ. Tokyo, ²Ctr. One Welf., Jnt. Fac. Vet. Med., Yamaguchi Univ., ³Lab. Vet. Pub. Hlth., Jnt. Fac. Vet. Med., Yamaguchi Univ., ⁴Dept. Vet. Sci., NIID)

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

P1-151**Development of an in vitro method for evaluating serum resistance of ExPEC isolated from cattle**

○Hiroataka Furuya¹, Anna Momoki¹, Nobuo Arai¹, Yukino Tamamura¹, Taketoshi Iwata¹, Masahiro Kusumoto^{1,2} (¹Natl. Inst. Anim. Health, NARO, ²Grad. Sch. Vet. Sci., Osaka Metro. Univ.)

P1-152**Growth of recombinant mycobacteria co-expressing MDP1 and an MDP1-binding protein**

Karin Nakamura¹, Tohru Abe², Akihito Nishiyama¹, Amina Shaban¹, Yuriko Ozeki¹, Yutaka Yoshida¹, ○Sohkichi Matsumoto¹ (¹Dept. Bacteriology, Sch. Med., Niigata Univ., ²Bio-Science Course, Fac. Agric., Yamagata Univ.)

P1-153**The type IX secretion system increases the survival rate of *Prevotella intermedia***

○Iori Yonezawa, Tokuju Okano, Toshihiko Suzuki (Dept. Bacterial Infection., Sch. Med and Dent., IST)

P1-154**Nutrient Acquisition Drives *Edwardsiella tarda* Pathogenesis in Necrotizing Soft Tissue Infection**

Kohei Yamazaki¹, Takuya Yamaguchi¹, Yuichi Yokoyama¹, Yuka Tonosaki¹, Klara Kursanbaeva^{1,2}, Daisuke Motooka³, Yukihiro Akeda⁴, ○Takashige Kashimoto¹ (¹Lab. Veterinary Public Health, Kitasato Univ., ²Kyrgyz Res. Inst. Vet. Sci. named after A. Duisheev, ³Dept. Infect. Metagenomics, RIMD, Osaka Univ., ⁴Dept. Bact., NIID, Japan Inst. Health Security)

P1-155**Rop-mediated suppression of RpoS production increases resistance to NO in EHEC**

○Takeshi Shimizu¹, Shin Suzuki¹, Takeshi Hamabata² (¹Dept. Mol. Infect., Sch. Med, Chiba Univ., ²Dept. Infect. Dise., NCGM)

P1-156/FL1-38**YaiX overexpression increases *Escherichia coli* virulence and promotes multidrug resistance**

○Kinuka Hongu¹, Kazuya Ishikawa¹, Tomoki Kosaki¹, Shin-Ichi Miyoshi^{2,3}, Kazuyuki Furuta¹, Chikara Kaito¹ (¹Grad. Sch. Med. Dent. Pharm. Sci., Okayama Univ., ²Grad. Sch. Med. Dent. Pharm. Sci., Sch. Pharm. Sci., Okayama Univ., ³Res. Cent. Intest. Health Sci., Okayama Univ.)

P1-157**Study of the role of the *H. cinaedi* CAIP during macrophage infection in promoting atherosclerosis**

○Masaki Miyake^{1,2}, Sakurako Aoshima², Amon Miyake², Yuka Endo¹, Shobu Matsumoto¹ (¹Dept. Microbiol., Sch. Pharm. Sci., Ohu Univ., ²Lab. Microbiol. Immunol., Sch. Pharm. Sci., Univ. Shizuoka)

P1-158**A Novel Mechanism of Host Immune Evasion by *Mycobacterium tuberculosis* via Transcription Factor MafB**

○Hiroyuki Saiga¹, Masaki Ueno², Toshiki Tamura¹, Yusuke Tsujimura¹, Masamitsu Asaka¹, Yumiko Tsukamoto¹, Tetsu Mukai¹, Michito Hamada³, Satoru Takahashi³, Takashi Tanaka⁴, Tsuneyasu Kaisho⁵, Yoshimasa Takahashi⁶, Katsuaki Hoshino⁷, Manabu Ato¹ (¹Leprosy Research Center, National Inst. Infectious Diseases, Japan Inst. Health Security, ²Dept. Pathology and Host Defense, Fac. Medicine, Kagawa Univ., ³Dept. Anatomy and Embryology, Inst. Medicine, Univ. Tsukuba, ⁴Lab. Developmental Genetics, RIKEN Center for Integrative Medical Sciences (IMS), ⁵Industry-Government-Academia Collaboration Promotion Headquarters, Wakayama Medical Univ., ⁶Research Center for Vaccine Development, National Inst. Infectious Diseases, Japan Inst. Health Security, ⁷Dept. Immunology, Fac. Medicine, Kagawa Univ.)

P1-159**Comprehensive transcriptomics identify unique neutrophil subsets as a niche of *Salmonella* infection**

Mohamad Al Kadi¹, Maika Yamashita¹, Toshio Kodama², Andreas Baumler³, Daisuke Okuzaki¹, ○Hirotaka Hiyoshi² (¹Hum. Immunol., iFReC, Osaka Univ., ²Dept. Bacteriol., NEKKEN, Nagasaki Univ., ³MMI, California Univ., Davis)

P1-160/FL1-39***Salmonella* Typhimurium survives in monocytes for evading from host immunity and antibiotics**

○Uki Kimura¹, Sei Kashima¹, Karen Saiki¹, Hiroki Takahashi², Akiko Takaya^{2,3}, Koji Tokoyoda¹ (¹Div. Immunol., Tottori Univ., ²Med. Mycol. Res. Ctr., Chiba Univ., ³Dept. Infect. Control Sci., Chiba Univ.)

P1-161**Mechanism of surface antigen conversion in hard tick-born relapsing fever group *Borrelia* spp.**

○Mami Shiiba¹, Tomohi Takeuchi¹, Kozue Sato², Hiroki Kawabata², Ai Takano¹ (¹Dept. Vet. Med., Yamaguchi Univ., ²Dept. Bacteriol-I, JIHS)

5. Pathogenicity -e. Infection models

P1-162**Establishment of *in vivo* reactivation model of VBNC *Mycobacterium tuberculosis* using silkworm**

○Yuta Morishige¹, Fumiya Watanabe², Yoshiro Murase¹, Satoshi Mitarai^{1,3} (¹Dept. Mycobac. Ref. Res., RIT, JATA, ²Dept. Pharmacometr. Pharmacokinet., Meiji Pharm. Univ., ³Dept. Basic Mycobacteriol., Grad. Sch. Biomed. Sci., Nagasaki Univ.)

P1-163**Mechanisms of myoglobin-induced renal tubular cell death in a mouse model of necrotizing fasciitis**

○Ryohei Shiota¹, Yujiro Hirose¹, Yudai Kobayashi¹, Yuma Nishimura^{1,2}, Arisa Mori^{1,2}, Ayako Bando¹, Eri Ikeda¹, Masayuki Ono^{1,3}, Shigetada Kawabata¹ (¹Dept. Microbiol., Grad. School. Dent., UOsaka, ²Dept. Oral & Maxillofacial Oncol. and Surg., Grad. Sch. Dent., UOsaka, ³Bioinform. Res. Unit, Grad. Sch. Dent., UOsaka)

P1-164**Spatial gene expression analysis of *Streptococcus pyogenes* in necrotizing fasciitis lesions**

○Toshiki Tabuchi¹, Yujiro Hirose¹, Kohsei Nakashita¹, Yudai Kobayashi¹, Ryohei Shiota¹, Yuma Nishimura^{1,2}, Arisa Mori^{1,2}, Ayako Bando¹, Eri Ikeda¹, Masayuki Ono^{1,3}, Shigetada Kawabata¹ (¹Dept. Microbiol., Grad. Sch. Dent., UOsaka, ²Dept. Oral & Maxillofacial Oncol. and Surg., Grad. Sch. Dent., UOsaka, ³Bioinform. Res. Unit, Grad. Sch. Dent., UOsaka)

P1-165**Spatial transcriptomic dynamics of immune responses in a mouse model of necrotizing fasciitis**

○Kohsei Nakashita¹, Yujiro Hirose¹, Toshiki Tabuchi¹, Ryohei Shiota¹, Yudai Kobayashi¹, Yuma Nishimura^{1,2}, Arisa Mori^{1,2}, Ayako Bando¹, Eri Ikeda¹, Masayuki Ono^{1,3}, Shigetada Kawabata¹ (¹Dept. Microbiol., Grad. Sch. Dent., UOsaka, ²Dept. Oral & Maxillofacial Oncol. and Surg., Grad. Sch. Dent., UOsaka, ³Bioinform. Res. Unit, Grad. Sch. Dent., UOsaka)

P1-166**Mapping cytokine-secreting cells in a necrotizing fasciitis mouse model by spatial transcriptomics**

○Yudai Kobayashi¹, Yujiro Hirose¹, Ryohei Shiota¹, Yuma Nishimura^{1,2}, Arisa Mori^{1,2}, Ayako Bando¹, Eri Ikeda¹, Masayuki Ono^{1,3}, Shigetada Kawabata¹ (¹Dept. Microbiol., Grad. Sch. Dent., UOsaka, ²Dept. Oral Maxillofacial Oncol. and Surg., Grad. Sch. Dent., UOsaka, ³Bioinform. Res. Unit, Grad. Sch. Dent., UOsaka)

P1-167/FL1-40**Evaluating *in vivo* biofilm formation by pathogenic microorganisms using a silkworm infection model**

○Yasuhiko Matsumoto, Mei Nakayama, Yuta Shimizu, Sanae Kurakado, Takashi Sugita (Dept. Microbiol., Meiji Pharm. Univ.)

P1-168**Virulence-related proteins contained zinc finger domain in the pathogenic fungus *Trichosporon asahii***

○Yuta Shimizu, Yasuhiko Matsumoto, Takashi Sugita (Dept. Microbiol. Meiji., Pharm., Univ.)

P1-169/FL1-41**Non-penetrating Muscle Injury Facilitates Hematogenous Colonization of *Streptococcus pyogenes***

○Masayuki Ono^{1,2}, Yujiro Hirose¹, Shigetada Kawabata^{1,3} (¹Dept. Microbiol., Grad. Sch. Dent., UOsaka, ²Bioinf. Res. Unit, Grad. Sch. Dent., UOsaka, ³CiDER, UOsaka)

P1-170/WS8-7**Stratifying pneumococcal infection outcomes by initial aspiration dynamics in mice**

○Takashi Saito, Momoko Kobayashi, Zhengkuan Sun, Masaya Yamaguchi (National Inst. Biomedical Innovation, Health and Nutrition (NIBN))

P1-171**Modulation of PD-L1 and PD-1 Production by *Candida* species across diverse immune backgrounds in mice**

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

P1-172**Investigating the pathogenesis of typhoid fever using a *Salmonella Paratyphi C* mouse model**

○Thi Hoan Pham¹, Masatomo Morita², Kohei Yamazaki³, Toshihiro Endo⁴, Satoshi Takayama¹, Azusa Hiyoshi¹, Takeshi Haneda⁵, Renee M. Tsolis⁶, Andreas Baumler⁶, Toshio Kodama¹, Hirotaka Hiyoshi¹ (¹Dept. Bacteriol., Inst. Tropical Medicine (NEKKEN), Nagasaki Univ., ²Dept. Bacteriol. I., Natl. Inst. Infect. Dis., ³Lab. Vet. Public Health., Sch. Vet. Med., Kitasato Univ., ⁴Phenovance LLC, Chiba, ⁵Dept. Microbiol., Sch. Pharm., Kitasato Univ., ⁶Dept. Med. Microbiol. Immunol., Univ. California at Davis)

P1-173**Development of intestinal botulism mouse model and analysis of pathological mechanisms**

○Takuhiro Matsumura, Nobuhide Kobayashi, Sho Amatsu, Aki Yamaguchi, Kanon Iwata, Yukako Fujinaga (Dept. Bacteriol. Grad. Sch. Med. Sci., Kanazawa Univ.)

P1-174**Research on the promotion of *Clostridium botulinum* colonization by intestinal microbiota**

Nobuhide Kobayashi, Aki Yamaguchi, Kanon Iwata, Takuhiro Matsumura, Yukako Fujinaga (Dept. Bacteriol., Grad. Sch. Med., Kanazawa)

P1-175**Single-Dose IV Rescue of Lethal IP E. coli Infection by a Non-Replicative Broad-Range Capsid Therapy**

○Karthik Maruthan¹, Maniruzzaman¹, Yuya Hidaka¹, Shinjiro Ojima², Kotaro Kiga^{1,2}, Kazuhiko Miyanaga¹, Yoshifumi Aiba¹, XinEe Tan¹, Shinya Watanabe¹, Longzhu Cui¹ (¹Div. Bacteriol. Sch. Med., Jichi Med. Univ., ²Dept. Drug Development, NIID, JIHS)

P1-176/FL1-42

Three-dimensional analysis of mycobacterial infections based on tissue-clearing technology CUBIC

○Orlanath Phendinvay¹, Mariko Hakamata^{1,2}, Yuriko Ozeki², Akihito Nishiyama², Riuku Ohashi^{3,4}, Kazuki Tainaka⁵, Toshiaki Kikuchi¹, Sohkichi Matsumoto² (¹Dept. Respiratory Medicine and Infectious Diseases., Sch. Med., Niigata Univ., ²Dept. Bacteriol., Sch. Med., Niigata Univ., ³Histopathology Core Facility., Sch. Med., Niigata Univ., ⁴Dept. Molecular and Diagnostic Pathology., Sch. Med., Niigata Univ., ⁵Dept. System Pathology for Neurological Disorders., Brain Research Inst., Niigata Univ.)

P1-177

Longitudinal imaging of O157 infection in a mouse model using a bioluminescence system

○Takumi Terashima¹, Yuna Oshima¹, Daiki Yamaguchi², Miho Ishikawa¹, Miyabi Sakamoto¹, Risa Sato¹, Sunao Iyoda³, Yoshiyuki Goto⁴, Kinnoyuke Yahiro¹ (¹Dept. Microbiol. Infect. Control., Sch. Pharm., Kyoto Pharm Univ., ²Dept. Infect. Control., Sch. Pharm., Meiji Pharm Univ., ³Dept. Bacteriol.1., Natl. Inst. Infect. Dis., Japan Inst. Health Security, ⁴Dept. Infect. Immunol., Med. Mycol. Res. Ctr., Chiba Univ.)

P1-178

An In Vitro Microphysiological Model of *Bartonella henselae*-Induced Angiogenesis

○Hongyuan Jia¹, Makoto Kondo², Yukiko Matsunaga², Kentaro Tsukamoto¹ (¹Dept. Bact. Zoonoses, RIMD, UOsaka, ²UTokyo-IIS)

P1-179

Protective role of *Haemophilus influenzae* against pneumococcal-induced epithelial injury

○Emi Tanaka, Takeaki Wajima, Kei-ichi Uchiya (Dept. Microbiol., Fac. Pharm., Meijo Univ.)

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

P2-001

Isolation of microorganisms by revision of culture medium composition

○Hideaki Yamamoto¹, Haduki Kurasita², Takashi Ano^{1,2}, Masahiro Okanami^{1,2} (¹Grad. Sch. Biology-Oriented Science Technology, Kindai Univ., ²Fac. Biology-Oriented Science Technology, Kindai Univ.)

P2-002

Identification and functional genome analysis of the symbiotic bacteria of *Paramecium nephridiatum*

○Masato Tachibana¹, Shintaro Maeno¹, Hideo Dora², Masanori Hashino³, Risa Someno³, Kenta Watanabe⁴, Takashi Shimizu⁴, Masahisa Watarai⁴ (¹Org. Res. Ini., Yamaguchi Univ., ²Shizuoka Ins. Ana. Cen., Shizuoka Univ., ³NIID, ⁴Joi. Fac. Vet. Med., Yamaguchi Univ.)

P2-003

Prediction of sugar metabolic pathways of a novel non-glucose utilizing strain, *Acidovorax* sp. FG27

○Ryujiro Yokota, Takashi Ano, Masahiro Okanami (Grad. Sch. Biology-Oriented Science and Technology, Kindai Univ.)

P2-004/FL2-01

Bacterial cell fusion enables isolation of novel phages

○Tomoyoshi Kaneko^{1,2}, Satoshi Tsuneda^{1,2} (¹Dept. Life Sci. Med. Biosci., Sch. Adv. Sci. Eng., Waseda Univ., ²Phage Therapy Inst., Waseda Univ.)

P2-005

Survival Strategies of *Campylobacter jejuni* Using *Acanthamoeba polyphaga*

Mako Kitade, Reima Yamazaki, ○Takaaki Shimohata (Marine-Bio, Fukui Prefectural Univ.)

P2-006/FL2-02

Effects of plant-derived secondary metabolite coumarin compounds on diverse rhizobacteria

○Sho Hirashima, Mayu Goto, Jae-Hoon Choi, Hirokazu Kawagishi, Masayoshi Hashimoto (Fac. Agr., Shizuoka Univ.)

P2-007

Antimicrobial properties of a commensal bacterium against *Staphylococcus aureus*

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

P2-008

In Vivo Antifungal Therapeutic Activity of Soil Bacteria Isolated on Plant Extract-Based Agar

○Fumiaki Tabuchi¹, Kazuhiro Mikami², Masaki Ishii³, Masanobu Miyauchi¹, Atsushi Miyashita¹ (¹Lab. Antifungal Immunobiol., Inst. Med. Mycol., Teikyo Univ., ²Dept. Med. Tech., Grad. Sch. Clinical Lab. Sci., Teikyo Univ., ³Lab. Mol. Cell Biol., Sch. Pharm., Musashino Univ.)

P2-009/WS12-6

Genomic analysis of STEC contamination and pathogenic potential in the upper Oyodo River

○Shunsuke Iriguchi¹, Ryutarō Matsuyama², Miki Okuno¹, Soichiro Tamai³, Yusuke Ito⁴, Susumu Takemoto⁴, Yoshitoshi Ogura¹, Yoshihiro Suzuki^{2,3,5} (¹Dept. Infectious Medicine, Sch. Med., Kurume Univ., ²Dept. Eng., Grad. Sch. Eng., Univ. Miyazaki, ³Dept. Env. Res. Sci., Agr. Eng. Grad. Sch., Univ. Miyazaki, ⁴KenKan Consultants Co., Ltd, ⁵Dept. Civ. Env. Eng., Fac. Eng., Univ. Miyazaki)

P2-010

Impact of Endosymbiont *Neochlamydia* on Cyst Biology in host amoebae and Evaluation of *E. coli* Uptake

○Ruo Takeda, Akane Tatsuta, Torahiko Okubo, Hiroyuki Yamaguchi (Fac. Health Sci., Hokkaido Univ.)

P2-011**Analysis of coaggregation of vancomycin-resistant *Enterococcus faecium* and *Fusobacterium nucleatum***

○Ayaho Nishimoto, Masashi Yanagihara, Shigefumi Okamoto
(Dept. Clin. Lab. Biomed. Sci., Grad. Sch. Med., UOsaka)

P2-012**Defense Strategy Based on Bacterial Size Recognition in *Neochlamydia*-Harboring *Acanthamoeba***

○Torahiko Okubo, Ruo Takeda, Hiroyuki Yamaguchi (Fac. Health Sci., Hokkaido Univ.)

P2-013**Enhancement of biofilm formation by *Aeromonas veronii* OMVs accompanied by increased c-di-GMP**

○Soshi Seike¹, Hidetomo Kobayashi¹, Eizo Takahashi², Keinosuke Okamoto³, Hiroyasu Yamanaka¹ (¹Lab. Mol. Microbiol. Sci., Fac. Pharm. Sci., Hiroshima International Univ., ²Lab. Med. Microbiol., Dept. Health Pharm., Yokohama Univ. Pharm., ³Grad. Sch. Med. Dent. Pharm. Sci., Okayama Univ.)

P2-014**Identification of genes involved in plant growth promotion by *Pseudomonas* sp. strain Y132**

○Masahiro Okanami^{1,2}, Rinon Kanai¹, Hiroto Satake², Hazuki Kurashita², Takashi Ano^{1,2} (¹Grad. Sch. Biol.-Ortd Sci. Technol., Kindai Univ., ²Fac. Biol.-Ortd Sci. Technol., Kindai Univ.)

P2-015/FL2-03**Body-Temperature Warming Efficacy on Bacterial Survivability via Multi-Sample Analysis**

○Moe Rokuto¹, Torahiko Okubo¹, Toyotaka Sato², Hiroyuki Yamaguchi¹ (¹Fac. Health Sci., Hokkaido Univ., ²Fac. Vet. Med. Hokkaido Univ.)

2. Ecology -b. Microbiota

P2-016/FL2-04**Biofilm and microbiome assessment of hygienic status in used hard contact lens cases**

○Sayaka Goto, Yui Kahara, Rie Tanaka, Yuna Kimura, Kosuke Tahara, Koji Uesugi, Taizo Sumide (Menicon Co., Ltd.)

P2-017/FL2-05**Comprehensive analysis of microbiota in keratotic plugs following disintegration with Tris**

○Takehisa Yano¹, Kurenai Furukawa², Kaori Umehara², Shinichi Ikegaki² (¹Safety Science Lab, Kao Corporation, ²Skincare Lab, Kao Corporation)

P2-018**Interactions between *Fusobacterium* and *Faecalibacterium* in shaping the gut microbial community**

○Koji Hosomi^{1,2}, Satoko Maruyama^{2,3}, Tsubasa Matsuoka^{2,3}, Hitoshi Kawashima², Toshiki Kobayashi^{2,3}, Jun Kunisawa² (¹Grad. Sch. Vet. Sci., Osaka Metropolitan Univ., ²National Inst. Biomedical Innovation, Health and Nutrition (NIBN), ³Hakubaku Co., Ltd.)

P2-019/FL2-06**Isolation and identification of colitis-suppressing sporulating gut bacteria**

○Risako Oki¹, Kazuki Tanaka^{2,3,4}, Nobuhiko Nomura^{5,6,7}, Nozomu Obana^{7,8}, Shinji Fukuda^{2,3,4,8,9} (¹Life Ear. Sci. Univ. Tsukuba, ²Inst. Adv. Biosci., Keio Univ., ³KISTEC, ⁴Inst. Med., Univ. Juntendo, ⁵Fac. Life Environ. Sci., Univ. Tsukuba, ⁶TIAR, Univ. Tsukuba, ⁷MiCS, Univ. Tsukuba, ⁸TMRC, Inst. Med., Univ. Tsukuba, ⁹Metagen, Inc.)

P2-020**An AI-based model for predicting fecal microbial load from relative microbiome profiles**

○Suguru Nishijima (LiSDac, Front. Sci., Univ. Tokyo)

P2-021/FL2-07**Global metagenomics of 44,000 samples from 62 countries reveals African gut microbiome signatures**

○Kotaro Murai¹, Yutaka Suzuki², Suguru Nishijima² (¹Dept. Bioinform. Syst. Biol., Fac. Sci., Univ. Tokyo, ²LiSDac, Front. Sci., Univ. Tokyo)

P2-022**Phage-Mediated Modulation of *Thomasclavelia ramosa* While Preserving Gut Microbial Diversity**

○MD Razib Hossain, Priyanka Baranwal, Kazumasa Sasaki, Xin-Ee Tan, Srivani Veerananarayanan, Yoshifumi Aiba, Kazuhiko Miyanaga, Shinya Watanabe, Longzhu Cui (Div. Bacteriology, Sch. Medicine, Jichi Medical Univ.)

P2-023**Gut microbiota-derived metabolism may contribute to blood pressure regulation**

○Yasuo Ikagawa¹, Shigehiro Karashima², Kouki Taniguchi³, Ren Mizoguchi⁴, Kohei Ogura⁵, Masashi Yanagihara¹, Hiromasa Tsujiguchi⁶, Akinori Hara⁶, Hiroyuki Nakamura⁶, Kazuyoshi Hosomichi⁷, Shigefumi Okamoto¹ (¹Dept. Clin. Lab. Biomed. Sci., Grad. Sch. Med., UOsaka, ²Inst. Liberal Arts & Sci., Kanazawa Univ., ³Dept. Clin. Lab. Sci., Fac. Health Sci., Kanazawa Univ., ⁴Dept. Health Promotion & Future Med., Med. Sci., Kanazawa Univ., ⁵Div. Food Sci. Biotech., Grad. Sch. Agric., Kyoto Univ., ⁶Dept. Public Health, Grad. Sch. Adv. Prev. Med. Sci., Kanazawa Univ., ⁷Lab. Comp. Genomics, Sch. Life Sci., Tokyo Univ. Pharm. Life Sci.)

P2-024**Association between tongue coating types and tongue microbiota in oral mycoses among the elderly**

○Mikari Asakawa¹, Seijun Ganaha¹, Michiko Furuta¹, Shinya Kageyama¹, Jiale Ma¹, Rina Itazu^{1,2}, Eri Namoto¹, Toru Takeshita¹ (¹Sect. Prevent. Dent. Public Health., Grad. Sch. Dent., Kyushu Univ., ²Sect. Ortho. Dento. Orthope., Grad. Sch. Dent., Kyushu Univ.)

P2-025**Microbial association between oral and lung microbiota**

○Shinya Kageyama¹, Keiko Kan-o², Hiroaki Ogata³, Mikari Asakawa¹, Toru Takeshita¹ (¹Sect. Prevent. Dent. Public Health, Grad. Sch. Dent., Kyushu Univ., ²Dept. Resp. Med., Tokyo Wom. Med. Univ., ³Dept. Resp. Med., Sch. Med., Kyushu Univ.)

P2-026**Characterization of gut microbiome associated with hypertension: Shika study results**

○Rin Mizogami^{1,2}, Marin Hamada^{1,2}, Momoko Kobayashi², Yasuo Ikagawa¹, Masashi Yanagihara¹, Masaya Yamaguchi², Shigefumi Okamoto¹ (¹Dept. Clin. Lab. Biomed. Sci., Grad. Sch. Med., Osaka Univ., ²NIBN)

2. Ecology -c. Growth environment/culture conditions

P2-027**Shear-driven boundary instability and flow-responsive behavior in marine bacterial biofilms**

○Hongtao Zhang¹, Shufeng Zhao¹, Andrew S Utada² (¹Life & Environ. Sci., Fac. Life & Environ., Tsukuba Univ., ²Inst. Life & Environ. Sci., Microbial Res. Ctr. for Sustainability, TIAR, Tsukuba Univ.)

P2-028 **α -Amylase in *A. oryzae*-fermented rice promotes the growth of human symbiotic *Faecalibacterium***

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

P2-029**Mutual interactions between *F. nucleatum* and *P. gingivalis* during oral biofilm formation**

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

P2-030**Relationship between phylogenetic lineage and hypoxic growth pattern in *Mycobacterium intracellulare***

○Yoshitaka Tateishi^{1,2}, Sohkichi Matsumoto² (¹Dept. Microbiol., Sch. Med., Fukushima Med Univ., ²Dept. Bacteriol., Sch. Med., Niigata Univ.)

P2-031**Single-cell and population-level evaluation of intracellular Ca²⁺ homeostasis in *E. coli***

○Takemasa Nakamura¹, Hiroyuki Noji^{1,2}, Kazuhito Tabata^{1,2} (¹Dept. Applied. Chem., Sch. Eng., UTokyo., ²RIPH, UTokyo)

P2-032/FL2-08**Establishment of a Sustained hypoxia system and intracellular dynamics of *Chlamydia trachomatis***

○Kisara Yuki, Taiki Deguchi, Tsubasa Tatsumiya, Torahiko Okubo, Hiroyuki Yamaguchi (Fac. Health Sci., Hokkaido Univ.)

P2-033**Viable but non-culturable *Campylobacter jejuni* fails to resuscitate in the chicken infection model**

○MD Jannat Hossain^{1,2}, Yasuo Inoshima^{1,3,4}, Ayaka Okada^{1,3,4} (¹Joint Grad. Sch. Vet. Sci., Gifu Univ., ²Dept. Microbiol. Pub. Heal., Khulna Agri. Univ., ³Joint Dept. Vet. Med., Gifu Univ., ⁴GeFAH, Gifu Univ.)

P2-034/FL2-09**Environment-Dependent Trade-Offs in *E. coli* Resistant to Bacteriophage NiC89**

○Hinatsu Kobayashi¹, Jumpei Fujiki¹, Toyotaka Sato², Yurika Amano¹, Tomohiro Nakamura³, Hidetomo Iwano^{1,4} (¹Dept. Vet. Biochem., Vet. Med., Rakuno Gakuen Univ., ²Dept. Vet. Hygiene, Vet. Med., Hokkaido Univ., ³Dept. Med., California Univ., San Diego., ⁴Phage Therapy Institute, Waseda Univ.)

2. Ecology -d.Others

P2-035/FL2-10**Ecology and Morphology of *Helicobacter pylori* in the Intestinal Tract and Contents of Germ-Free Mice**

○Fuhito Hojo¹, Takako Osaki² (¹Inst. Lab. Animals, Grad. Sch. Med., Kyorin Univ., ²Dept. Prevent. Med., Kyorin Univ., Sch. Med.)

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

P2-036**GTDB-Tk-based analysis of human gut MAGs reveals candidate novel species**

○Masaya Yamaguchi¹, Momoko Kobayashi¹, Hitoshi Kawashima¹, Zhengkuan Sun¹, Takashi Saito¹, Koji Hosomi², Motohiko Miyachi³, Jun Kunisawa¹ (¹NIBN, ²Dept. Vet. Sci., Grad. Sch. Vet. Sci., Osaka Metropolitan Univ., ³Fac. Sport Sci., Waseda Univ.)

P2-037**Structure-based functional prediction of a hypothetical *Clostridium perfringens* carboxypeptidase**

○Nozomu Matsunaga¹, Anri Miyoshi², Yasuo Hitsumoto², Seiichi Katayama¹ (¹Dept. Med. Tech., Fac. Life Sci., Okayama Univ. Sci., ²Dept. Life Sci., Grad. Sch. Sci. Tech., Okayama Univ. Sci.)

P2-038**Genetic Background of *Aeromonas* Species Associated with Invasive Infections**

○Miki Okuno¹, Takeshi Yamamoto¹, Sunao Tateyama², Yoshitoshi Ogura¹ (¹Dept. Inf. Med., Kurume Univ. Sch. Med., ²Nanbu Hospital)

P2-039**Functional Estimation of Mycobacterial MFS Transporters Based on Protein structure prediction**

○Hiharu Inoue¹, Takayuki Wada^{1,2} (¹Dept. Microbiol. Grad. Sch. Hum. Life Ecol., Osaka Metro. Univ., ²Osaka Intl. Res. Ctr. Infect. Dis., Osaka Metro. Univ.)

P2-040**Extensive detection of adaptive amino-acid variants**

○Ichizo Kobayashi^{1,2}, Takahiro Sakamoto³, Hiroyo Nishide¹, Masaki Fukuyo⁴, Kodai Mori⁵, Ikuo Uchiyama¹, Hideki Innan³, Camargo M. Constanaza⁶, Rabkin Charles⁶, Naoki Osada⁵ (¹Nat. Inst. Basic Biol., ²HOSEI Univ., ³Grad. Univ. Advanced Studies, ⁴Dept. Mol. Oncol., Sch. Med., Chiba Univ., ⁵Information Sci. Tech., Hokkaido Univ., ⁶National Cancer Institute, USA)

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

P2-041**Identification of factors inhibiting resistance plasmids acquisition in *Escherichia coli* ST73**

○Kengo Hayashi¹, Masahiro Suzuki¹, Yohei Doi^{1,2,3,4} (¹Dept. Microbiol., Sch. Med., Fujita Health Univ., ²Dept. Infect. Dis., Sch. Med., Fujita Health Univ., ³Div. Infect. Dis., Sch. Med., Pittsburgh Univ., ⁴Ctr. Infect. Dis. Res., Fujita Health Univ.)

P2-042**Genomic analysis of antibiotic resistance genes in *Campylobacter jejuni***

○Shouji Yamamoto¹, Pakorn Aiewsakun², Prasit Palittapongarnpim², Hidemasa Izumiya¹, Yukihiro Akeda¹ (¹Dept. Bacteriol. I, NIID, ²Mahidol Univ., Dept. Microbiol.)

P2-043**Mobile Genetic Element-Mediated Evasion of Anti-Phage Defenses**

○Kotaro Chihara, Aa Haeruman Azam, Kotaro Kiga (Dept. Drug Dev., Natl. Inst. Infect. Dis., Japan Inst. Health Sec.)

P2-044**Genetic variants of hyper-mucoid Group A streptococcus emerged in vitro**

○Chang Ma, Kazunori Murase, Takashi Nozawa, Ichiro Nakagawa (Dept. Microbiol. Sch. Med. Kyoto Univ.)

P2-045**Horizontal gene transfer in *Porphyromonas gingivalis***

○Kimihiro Abe¹, Hiroko Yahara², Takehito Wakabayashi³, Shouji Yamamoto¹, Akiko Kubomura¹, Ryoma Nakao¹, Takehiro Yamaguchi¹, Tsutomu Sato³, Yukihiro Akeda¹ (¹Dept. Bacteriol. I, NIID, JIHS, ²Genome med., NCGM, JIHS, ³Grad. Sch. Sci. Eng., Hosei Univ.)

P2-046**Genomic dynamics of *Mycobacterium tuberculosis* population in long-term chronic infection**

○Asami Osugi^{1,2}, Tatsuya Kodama², Takashi Yoshiyama^{2,3}, Satoshi Mitarai¹ (¹Dept. Mycobacterium Ref. Res., Res. Inst. TB, ²Resp. Dis. Ctr., Fukujiji Hosp., ³Res. Inst. TB)

P2-047/FL2-11**Macrolide resistance gene *ermC* induces pleiotropic phenotypic changes in *Bacillus subtilis***

○Mio Uneme¹, Kazuya Ishikawa¹, Yusuke Miyoshi¹, Kazuyuki Furuta¹, Shin-Ichi Miyoshi², Chikara Kaito¹ (¹Grad. Sch. Med. Dent. Pharm., Okayama Univ., ²Res. Cent. Intest. Health Sci., Okayama Univ.)

P2-048**Functional characterization of Starship elements in pathogenic fungus *Aspergillus***

○Nan Wang¹, Saho Shibata², Momotaka Uchida², Guido Puccetti², Hiroki Takahashi^{2,3} (¹Grad. Sch. Med. Pharm. Sci., Chiba Univ., ²MMRC, Chiba Univ., ³Sch. Sci., Chiba Univ.)

P2-049**Multilayered genomic plasticity and phylogenetic diversification in related *Streptococcus* species**

○Kazunori Murase, Shintaro Kume, Atsuko Minowa-Nozawa, Takashi Nozawa, Ichiro Nakagawa (Dept. Microbiol., Grad. Sc. Med., Kyoto Univ.)

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

P2-050**Molecular mechanisms of phytotoxin tropolone in rice-seedling blight, *Burkholderia plantarii***

○Kaoru Nakasone¹, Ryutaro Utsumi² (¹Fac. Engin., Kindai Univ., ²Inst. Sci. Ind. Res. (ISIR), Osaka Univ.)

P2-051

Transcriptomic changes associated with hupB silencing in mycobacteria

○Amina K. Shaban¹, Geberetsadik Geberemichael¹, Mariko Hakamata², Hayato Takihara³, Erina Inouchi¹, Akihito Nishiyama¹, Yuriko Ozeki¹, Yoshitaka Tateishi^{1,8}, Takehiro Yamaguchi⁴, Yukiko Nishiuchi⁵, Naoya Ohara⁶, Shujiro Okuda³, Sohkiichi Matsumoto¹ (¹Dept. Bact. Sch. Med. Niigata Univ., ²Dept. Resp. Med. Sch. Med. Niigata Univ., ³Dept. Bioinfo. Sch. Med. Niigata Univ., ⁴Toneyama Tuberculosis Research Inst. Osaka City Univ., ⁵Dept. Pharm. Osaka Met. Univ., ⁶Dep. Oral Microbiol. Okayama Univ., ⁷Lab. Tuberculosis. Inst. Tropical Disease, Airlangga Univ. Indonesia, ⁸Dept. Microbiol. Fukushima Med. Univ.)

P2-052

Pathogenicity Analysis of Enterohemorrhagic *E. coli* Mutants with Altered Shiga Toxin Production

○Naoki Sudo¹, Fuhito Hojo², Jiro Mitobe¹ (¹Dept. Infect. Dis., Sch. Med., Kyorin Univ., ²Inst. Lab. Animals, Grad. Sch. Med., Kyorin Univ.)

P2-053

TsrA modulates T3SS2 expression as a co-regulator of HNS in *Vibrio parahaemolyticus*

○Tan Paramita Wibowo Sutanto, Andre Pratama, Eiji Ishii, Tetsuya Iida, Shigeaki Matsuda (Dept. Bacterial Infect, RIMD, UOsaka)

P2-054

Systematic functional profiling of TCSs in virulence-associated traits of *Vibrio parahaemolyticus*

○Annisa Aulia Maghfirani Sudarmadi¹, Eiji Ishii¹, Andre Pratama¹, Toshihide Okajima², Tetsuya Iida¹, Shigeaki Matsuda¹ (¹Dept. Bacterial Infect, RIMD, UOsaka, ²Sanken, UOsaka)

P2-055

Gene Expression Changes by Adenine-Specific DNA Methylase *ctsM* Knockout in *Campylobacter jejuni*

○Daichi Morita¹, Aimi Noguchi², Youko Hiyama¹, Takanori Kumagai¹, Teruo Kuroda¹ (¹Grad. Sch. Bio. Heal. Sci., Hiroshima Univ., ²Sch. Pharm. Sci., Hiroshima Univ.)

P2-056

Iron uptake linked to Curli formation via the BasS/BasR-CsgD signaling pathway in *Escherichia coli*

○Nozomi Matsuyoshi^{1,2}, Hiroshi Ogasawara^{2,3,4,5} (¹Grad. Sch. Med., Sci. Tech., Shinshu Univ., ²Res. Ctr. Adv. Sci. Tech., Shinshu Univ., ³Acad. Assy. Sch. Hum. SoSci. Inst. Hum., Shinshu Univ., ⁴RCAM, Shinshu Univ., ⁵IFES, Shinshu Univ.)

P2-057/FL2-12

Development of *Vibrio parahaemolyticus* Infected Organoid Models by Gene Expression Analysis

○Maika Yamashita¹, Mohamad Al Kadi¹, Shigeaki Matsuda², Eiji Ishii², Taiki Sakaguchi³, Masakazu Ishikawa¹, Tetsuya Iida², Shuhei Sakakibara¹, Toshio Kodama⁴, Daisuke Okuzaki¹ (¹iFReC., Osaka Univ., ²Dept. Bact. Infect., RIMD, Osaka Univ., ³Dept. Microbiol. & Immunol., Sch. Med., Osaka Univ., ⁴Dept. Bacteriol., Inst. Trop. Med., Nagasaki Univ.)

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

P2-058

Generation of mutant *Clostridium sporogenes* strains to investigate mechanisms of gut colonization

○Aki Yamaguchi¹, Nobuhide Kobayashi¹, Takuhiro Matsumura¹, So-ichiro Nishiyama², Yukako Fujinaga¹ (¹Dept. Bacteriol., Grad. Sch. Med., Kanazawa Univ., ²Fac. App. Life Sci., Niigata Univ. Pharm. Med. Life Sci.)

P2-059

Construction of a CRISPR-Cas9 Mediated Gene Recombination System in *Escherichia coli*

○Mitsuki Okuda, Noriteru Yamada, Rina Izuka, Kinnosuke Yahiro (Dept. Microbiol. Infect. Control., Sch. Pharm., Kyoto Pharm. Univ.)

P2-060/FL2-13

Introduction of *Mycobacterium*-derived plasmids into *Actinomyces*

○Sakiko Ohara^{1,2}, Yijuan Sheng¹, Yuki Nishiya^{1,3}, Ikue Tosa^{1,4}, Katsuki Takebe⁵, Yuki Arimura³, Hiroshi Mese², Naoko Ohara⁶, Naoya Ohara^{1,4,7} (¹Dept. Oral Microbiol., Grad. Sch. Med. Dent. Pharm. Sci., Okayama Univ., ²Dept. Dent. Oral Surg., Fukuyama City Hospital, ³Dept. Oral Maxillofac. Reconst. Surg., Grad. Sch. Med. Dent. Pharm. Sci., Okayama Univ., ⁴ARCOCS, Dent. Schl., Okayama Univ., ⁵Dept. Dent. Pharm., Grad. Sch. Med. Dent. Pharm. Sci., Okayama Univ., ⁶Dept. Operative Dent., Grad. Sch. Med. Dent. Pharm. Sci., Okayama Univ., ⁷Res. Cent. Intest. Health Sci., Okayama Univ.)

P2-061/FL2-14

Exploring the Potential of Cell-Penetrating Peptides for Biomolecule Delivery into *Streptomyces*

Tetsushi Mori, ○Suzune Honda, Natsumi Taka, Saruul Erdenebat, Tatsuru Okazaki (Dept. Life Sci. and Biotech., TUAT)

P2-062/FL2-15

Discovery of Effective Cell-Penetrating Peptides for Molecular Delivery into Gram-Positive Bacteria

Tetsushi Mori, ○Futaba Doi, Jaeyoung Yu, Tatsuru Okazaki (Dept. Life Sci. and Biotech., TUAT)

P2-063/FL2-16**Development of a PNA-Based Method for Analyzing Bacterial Metabolic Pathways**

Tetsushi Mori¹, ○Yuka Kikuyama¹, Yugo Kawabuchi¹, Shunichi Kobayashi¹, Rei Suo², Shiro Itoi², Ryutarō Asano¹ (¹Dept. Life Sci. and Biotech., TUAT, ²Grad. Sch. Biores. Sci., Nihon Univ.)

P2-064/FL2-17**Engineered Phage Capsids Targeting *Pseudomonas aeruginosa* Biofilm**

○Esakkiraj Palanichamy, Shinya Watanabe, Tomofumi Kawaguchi, Peterkins Kumwenda Geoffrey, Longzhu Cui (Div. Bacteriol, Sch. Med., Jichi Med. Univ.)

P2-065**End-design-free rebooting of terminally redundant *Pseudomonas* virus φR26**

○Daigo Yokoyama, Jumpei Fujiki, Nana Kimura, Haruka Yamamoto, Yoshiaki Sakata, Rui Hiya, Hidetomo Iwano (Dept. Vet. Biochem., Sch. Vet. Med., Rakuno Gakuen Univ.)

P2-066**Establishment of a gene disruption method for *Mycobacterium abscessus* using the ORBIT system**

○Nao Ito¹, Yusuke Minato², Takehiko Mima¹ (¹Microbiol., Dept. Med. Technol., Fac. Health Sci., Ehime Pref. Univ. Health Sci., ²Div. Anti-Infect. Drug Discov., Ctr. Infect. Dis. Res., Fujita Health Univ.)

4. Genetics / Genomics / Biotechnology -e. Others

P2-067**Phage-Triggered Defense by RT-NIID14: An ncRNA-Independent RT and a Putative Ancestor of DRT9**

○Aa Haeruman Azam, Matthew Imanaka, Wenhan Nie, Kotaro Chihara, Kotaro Kiga (Dept. Ther Drug Dev., Japan Inst. Health Secur.)

5. Pathogenicity -f. Others

P2-068/FL2-18**Analysis of *Salmonella* Dublin isolated from cattle in Hokkaido from 2004 to 2023**

○Makiko Yamada¹, Ayano Yamamoto², Nobuo Arai³, Tomomi Masuko⁴, Ayumi Kobayashi⁵ (¹Hiyama Live. Hygi. Serv. Cent. Hokkaido Pref., ²Tokachi Live. Hygi. Serv. Cent. Hokkaido Pref., ³Natl. Inst. Anim. Health, NARO, ⁴Kamikawa Live. Hygi. Serv. Cent. Hokkaido Pref., ⁵Abashiri Live. Hygi. Serv. Cent. Hokkaido Pref.)

P2-069/FL2-19**Genotypic - phenotypic traits promote *Escherichia coli* persistence in dairy farm environments**

○Ida Munfarida¹, Akiko Nakashima², Jant Cres Caigoy¹, Christian Xedzro¹, Naoki Suzuki³, Toshi Shimamoto¹, Tadashi Shimamoto¹ (¹Grad. Sch. Integrated Sci. Life, Hiroshima Univ., ²Sch. Applied Biol. Sci., Hiroshima Univ., ³Dairy Eco-Sys. R&D Ctr., Hiroshima Univ.)

P2-070**Infection site-dependent expression profiling and host interactions of pneumococcal proteins**

○Satoru Hirayama¹, Toshihito Isono¹, Hisanori Domon^{1,2}, Yutaka Terao^{1,2} (¹Div. Microbiol. Infect. Dis., Niigata Univ. Grad. Sch. Med. Dent. Sci., ²Cent. for Adv. Oral Sci., Niigata Univ. Grad. Sch. Med. Dent. Sci.)

P2-071**Uptake of luciferase-tagged *Streptococcus mitis* group bacteria by vascular endothelial cells**

○Tomomi Hashizume-Takizawa, Masanori Saito, Hidenobu Senpuku (Dept. Microbiol. Immunol., Nihon Univ. Sch. Dent. at Matsudo)

P2-072**Lipopolysaccharide biosynthesis genes are required for full virulence in *Pantoea ananatis***

○Yuta Isobe¹, Luna Kanatsu¹, Kenji Ueda¹, Keita Fukui², Yoshihiko Hara², Yuichi Takikawa³, Kenro Oshima¹ (¹Hosei CPS, ²AJINOMOTO, ³Shizuoka Univ.)

P2-073***Gemella morbillorum* promotes colorectal cancer cell migration**

○Ryota Mori¹, Toshifumi Hara², Ryo Kutsuna¹, Junko Tomida¹, Tomoharu Takeuchi², Yoshiaki Kawamura¹ (¹Dept. Microbiol., Sch. Pharm., Aichi Gakuin Univ., ²Dept. Biochemistry, Sch. Pharm., Aichi Gakuin Univ.)

P2-074**Airway fibrosis drives the pathogenesis of pneumococcal pneumonia**

Yusuke Ishimoto^{1,2}, ○Rio Hashimoto^{1,2}, Tomoko Sumitomo¹ (¹Dept. Oral. Microbiol., Grad. Sch. Biomed. Sc., Tokushima Univ., ²Dept. Orthod. Dentofac. Orthop., Grad. Sch. Biomed. Sc., Tokushima Univ.)

P2-075**Virulence factors of *E. coli* from recurrent urinary tract infection**

○Satoka Senoura¹, Mayu Sebe¹, Ritsuko Mitsuata², Ayano Ishii², Reiko Kariyama³, Keiji Murakami¹ (¹Dept. Clin Nutr., Fac. Health Sci. Technol., Kawasaki Univ. Med. Welfare., ²Dept. Urol., Okayama Univ. Graduate Sch. Med. Dent. Pharm. Sci., ³Dept. Food Management, Fac. Digital Life, Okayama Gakuin Univ.)

P2-076/FL2-20**The impact of oral resident bacteria in the genus *Streptococcus* on the ocular surface**

○Yuna Kimura, Rie Sasaki, Kaho Mizuno, Taizo Sumide
(Menicon Co.,Ltd)

P2-077**A cell-based assay for α -Latrotoxin detection utilizing neurexin1 α expressing HEK293T cells**

○Hyun Kim, Tsuyoshi Kenri, Mitsutoshi Senoh (Dept. BacteriologyII, NIID)

P2-078**Leptospiral disruption of mechanosensors induces aberrant collective cell migration**

Hunter Barbee, Isabel Sebastian, Romina Tokumon, Yaru Wang, ○Tetsu Yamashiro, Claudia Toma (Dept. Bacteriol., Grad. Sch. Med. Univ. Ryukyus)

P2-079**Hydrogen peroxide resistance and virulence of *Salmonella enterica* serovar Typhimurium field isolates**

○Akari Tachibana¹, Momoko Nakayama¹, Nobuo Arai¹, Sayaka Nishikawa¹, Masahiro Kusumoto^{1,2}, Masahiro Eguchi¹ (¹Div. Infectious Animal Disease Research, NIAH, NARO, ²Grad. Sch. Veterinary Science, Osaka Metropolitan Univ.)

P2-080**Effects of *Fusobacterium nucleatum* on proliferation and migration of oral cancer cells**

○Yuma Nishimura^{1,2}, Yujiro Hirose¹, Yoshihiro Morita², Hiroyasu Kameyama², Arisa Mori^{1,2}, Ayako Bando¹, Yukiko Kitahira², Emiko Ogasa², Eri Ikeda¹, Masayuki Ono^{1,3}, Shigetada Kawabata¹, Narikazu Uzawa² (¹Dept. Microbiol., Grad. Sch. Dent., UOsaka, ²Dept. Oral & Maxillofacial Oncol. and Surg., Grad. Sch. Dent., UOsaka, ³Bioinform. Res. Unit, Grad. Sch. Dent., UOsaka)

P2-081**Variation in Intracellular Selenium Storage Capacities of Ulcerative Colitis Associated Bacteria**

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

6. Host defense -a. Innate immunity

P2-082/FL2-21**Cell proliferation activity of solubilized peptidoglycan derived from lactic acid bacteria**

○Sho Noguchi¹, Momoko Nakayama², Masahiro Eguchi², Sakura Onoue¹, Hiroaki Kouzai¹, Kazuyoshi Kawahara¹ (¹Col., Sci., Eng., Kanto Gakuin Univ., ²National Inst. Animal Health, NARO)

P2-083/WS15-1**Analysis of complement-dependent bactericidal mechanisms against *Borrelia miyamotoi***

○Tomohi Takeuchi¹, Hiroki Kawabata², Kozue Satoh², Ai Takano¹ (¹Dept. Epi., Grad. Sch. Vet. Med., Yamaguchi Univ., ²Dept. Bacteriol. I., Natl. Inst. Infect. Dis.)

P2-084**Study the antibiotic mechanism of Rab32-LRO in macrophages**

○Shiou-Ling Lu, Yong-An Shi, Yangji Li, Takeshi Noda (Dept. Oral Cellular Biology, Center for Frontier Oral Science, Grad. Sch. Dentistry, UOsaka)

P2-085/WS15-5***K. pneumoniae*-derived EVs antagonize LPS-induced inflammation and exhibit a pathologic involvement**

○Touya Toyomoto¹, Shogo Tsubaki¹, Juntaro Matsuzaki², Tomohiro Sawa³, Hitoshi Tsugawa¹ (¹TranSiR., Div. Host Def. Mech., Sch. Med., Tokai Univ., ²DiGNa., Res. Ctr. Drug Discov., Fac. Pharm., Keio Univ., ³Dept. Microbiol., Grad. Sch. Med., Kumamoto Univ.)

P2-086**Stress Granules modulate apoptotic cell death in response to Group A *Streptococcus* infection**

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

P2-087**Sublethal disulfidptosis contributes to TLR2-mediated pyroptosis induction in THP1 cells**

○Kohsuke Tsuchiya, Shoko Hosojima, Shenghui Zhi, Takashi Suda (Div. Immunol., Cancer Res. Inst., Kanazawa Univ.)

P2-088**Fas-mediated inflammatory cytokine production in macrophages during pathogenic *Listeria* infection**

○Ryosuke Uchiyama^{1,2}, Saya Kajitani¹, Miyu Kawaguchi¹, Momona Matsuoka¹, Maria Hayashi¹, Kazuto Nosaka¹ (¹Dept. Microbiol., Sch. Pharm., Mukogawa-W. Univ., ²Dept. Microbiol., Sch. Med., Hyogo Med. Univ.)

P2-089**The role of NLRP3 supersulfidation in bacteria infection**

○Tianli Zhang^{1,2}, Akiyuki Nishimura³, Tetsuro Matsunaga^{1,2}, Motohiro Nishida^{3,4}, Takaaki Akaike⁵, Tomohiro Sawa⁶ (¹Comp. Cent. Infect. Dis. Cont., Akita Univ. Grad. Sch. Med., ²Key. Res. Lab. Akita Univ., ³Div. Card. Signal., Natl. Inst. Physiol. Sci., ⁴Dept. Physiol., Grad. Sch. Pharm. Sci., Kyushu Univ., ⁵Dept. Redox. Mol. Med., Tohoku Univ. Grad. Sch. Med., ⁶Dept. Microbiol., Grad. Sch. Med Sci., Kumamoto Univ.)

P2-090/FL2-22**Genetic diversity in immune receptors and bacterial ligands suggests coevolutionary dynamics**

○Gen Hasegawa¹, Kouyuki Hirayasu¹, Norihiko Takemoto², Hisashi Arase^{3,4,5}, Masaya Yamaguchi^{6,7}, Shigetada Kawabata^{5,7}, Rikinari Hanayama¹ (¹eSRC., Kanazawa Univ., ²Dept. Infect. Dis., NIGHM, JIHS, ³Dept. Immunochem., RIMD, Osaka Univ., ⁴Lab. Immunochem., IFRc, Osaka Univ., ⁵CiDER, Osaka Univ., ⁶NIBN, ⁷Dept. Microbiol., Osaka Univ. Grad. Sch. Dent.)

P2-091**N-acetylchitohexaose induces immune priming against *Pseudomonas aeruginosa* infection in the silkworm**

○Kazuhiro Mikami¹, Hiroto Nakajima², Masaki Ishii³, Fumiaki Tabuchi², Koichi Makimura³, Atsushi Miyashita³ (¹Dept. Med. Tech., Grad. Sch. Clinical Lab Sci., Teikyo Univ., ²Inst. Med. Mycol., Teikyo Univ., ³Lab. Mol. Cell. Biol., Sch. Pharm., Musashino Univ.)

P2-092/WS15-2**Impact of LPS modifications on inflammasome activation in *Acinetobacter* infection**

○Yasuyuki Matsuda¹, Hajime Yamauchi¹, Go Kamoshida², Tsukasa Shiraishi³, Shin-ichi Yokota³, Hideki Hara¹ (¹Dept. Infect. Dis., Div. Microbiol. Immunochem., Asahikawa Med. Univ., ²Dept. Infect. Cont. Sci., Meiji Pharm. Univ., ³Dept. Microbiol., Sch. Med., Sapporo Med. Univ.)

P2-093/FL2-23**Antimicrobial peptide LL-37 induces cell death and release of SASP factors in senescent cells**

Kazuki Santa¹, Kaori Suzuki², Yumi Kumagai², Toshiaki Iba¹,
○Isao Nagaoka¹ (¹Far. Med. Sci. Juntendo Univ., ²Dept. Biochem. Syst. Biomed., Juntendo Univ. Grad. Sch. Med.)

P2-094**The molecular mechanism of innate immune response by bacteria-specific modified nucleosides**

○Miho Shimamura, Yu Nagayoshi, Kayo Nishiguchi, Hitomi Kaneko, Ryosuke Yamamura, Takeshi Chujo, Kazuhito Tomizawa (Dept. Mol. Physiol., Fac. Life Sci., Kumamoto Univ.)

P2-095/FL2-24***Staphylococcus aureus* induces ASC phosphorylation by activating Aurora A for inflammasome activation**

○Hajime Yamauchi, Yasuyuki Matsuda, Hideki Hara (Dept. Infect. Dis., Div. Microbiol. Immunochem., Asahikawa Med. Univ.)

6. Host defense -b. Acquired immunity, vaccines and prevention and control of infections**P2-096/WS15-6****Biogenesis and immunogenicity of *C. difficile* membrane vesicles for controlling pathogenicity**

○Yotaro Isamu¹, Mayu Okuda¹, Nobuhiko Nomura^{2,3,5}, Nozomu Obana^{4,5} (¹Grad. Sch. Life Environ. Sci., Univ. Tsukuba, ²Fac. Life Environ. Sci., Univ. Tsukuba, ³TIAR, Univ. Tsukuba, ⁴TMRC, Fac. Med., Univ. Tsukuba, ⁵MiCS, Univ. Tsukuba)

P2-097**Role of Immune Cells in Modulating Disease Severity by the Gut Microbiota**

○Eri Ikeda, Shigetada Kawabata (Dept. Microbiol. Sch. Dent., Osaka Univ.)

P2-098/WS15-3**Induction Pathways and Inflammation Regulation of *Candida albicans*-Induced α 1,2-fucosylation**

○Daichi Mori¹, Yoshiyuki Goto^{1,2} (¹Dept. Medical Mycology Research Center, Chiba Univ., ²Dept. Disaster Med, Chiba Univ.)

P2-099/WS15-7**Evaluation of acquired immunity using *S. aureus* - *Xenopus laevis* infection model**

○Ayano Kuriu, Kazuya Ishikawa, Kazuyuki Furuta, Chikara Kaito (Lab. Mol. Biol., Grad. Sch. Med. Dent. Pharm, Okayama Univ.)

P2-100**A novel adult pulmonary tuberculosis vaccine consisting of *Mtb* antigen and DNA adjuvant**

○Jun-ichi Maeyama^{1,2}, Yumiko Tsukamoto², Sumiko Iho³, Yuriko Ozeki¹, Sohkiichi Matsumoto¹, Saburo Yamamoto² (¹Grad. Sch. Med. Dent., Niigata Univ., ²JiHS, NIID, Leprosy, ³Louis Pasteur Cnt. Med.)

P2-101**Development of Bacteriophage-based Platform for DNA Vaccine Delivery**

○Yi Liu, Vivekanandan Palaninathan, Myat Thu, Srivan Veeranarayanan, Yoshifumi Aiba, Xin-Ee Tan, Kazuhiko Miyanaga, Shinya Watanabe, Longzhu Cui (Div. Bacteriology, Sch. Med., Jichi Med Univ.)

P2-102/FL2-25**Establishment of a Plug-and-Display type vaccine using *Bacillus subtilis* derived membrane vesicle**

○Takehito Wakabayashi¹, Kimihiro Abe², Hiroki Kawabata², Kozue Sato², Ryoma Nakao², Takehiro Yamaguchi², Tsutomu Sato¹, Yukihiro Akeda² (¹Grad. Sch. Sci. Eng., Hosei Univ., ²Dept. Bacteriol. I, NIID, JiHS.)

P2-103/FL2-26

Optimization of immunization protocols for a BCG-derived membrane vesicle-based tuberculosis vaccine

○Yui Yoshikawa^{1,2}, Takehiro Yamaguchi¹, Ryunosuke Tominaga^{1,2}, Tomoyo Nakamura^{2,3}, Tomohiko Nishino^{2,3}, Kimihiro Abe¹, Ryoma Nakao¹, Yukihiro Akeda¹ (¹Dept. Bacteriol. I, Natl. Inst. Infect. Dis., ²Sch. Biosci. Biotechnol., Tokyo Univ. Technol., ³Grad. Sch. Bionics, Tokyo Univ. Techno)

P2-104

Temporal shift of s-IgA concentration in saliva of middle-aged and elderly adults

○Eri Namoto¹, Mikari Asakawa¹, Shinya Kageyama¹, Michiko Furuta¹, Toshiharu Ninomiya², Toru Takeshita¹ (¹Sect. Prevent. Dent. Public Health., Grad. Sch. Dent., Kyushu Univ., ²Dept. Epidemiol. Public Health., Grad. Sch. Med., Kyushu Univ.)

6. Host defense -c. Others

P2-105/WS15-4

Intestinal mucosa-associated bacteria *Adlercreutzia* attenuates colitis by bile salt hydrolase

○Jiayue Yang¹, Nozomu Obana^{2,3}, Gaku Nakato^{4,5}, Shuichi Shimma⁶, Yumi Saito⁶, Shin Mukai⁷, Sousuke Yoshida⁷, Kazuhiro Sawada⁷, Yoshiaki Kise⁷, Osamu Nureki⁷, Nobuhiko Nomura³, Shinji Fukuda¹ (¹Inst. Adv. Biosci., Keio Univ., ²TMRC, Inst. Med., Univ. Tsukuba, ³Inst. Life Env. Sci., Univ. Tsukuba, ⁴Grad. Sch. Med., Juntendo Univ., ⁵KISTEC, ⁶Grad. Sch. Eng., Univ. Osaka, ⁷Grad. Sch. Sci., Univ. Tokyo, ⁸Metagen. Inc.)

P2-106

Spatially distinct roles of IL-17F in pulmonary tuberculosis

○Masayuki Umemura^{1,2,3}, Toshihiro Konno^{1,4} (¹Mol. Microbiol., Trop. Biosphere Res. Ctr., Univ. Ryukyus, ²Dept. Host Defense, Grad. Sch. Med., Univ. Ryukyus, ³Exp. Anim. Res., Adv. Med. Res. Cent., Fac. Med., Univ. Ryukyus, ⁴Animal Func. Sci., Fac. Agr., Univ. Ryukyus)

7. Antimicrobial agents and resistance

-a. Antimicrobial agents

P2-107/FL2-27

Comparative analysis of bacteriophages homologous to *Streptococcus mutans* temperate phage ϕ KSM96

○Yumi Yamauchi^{1,2}, Saki Nishihama^{1,2}, Miki Kawada-Matsuo^{2,3}, Junzo Hisatsune⁴, Yo Sugawara⁴, Hideki Shiba¹, Motoyuki Sugai⁴, Hitoshi Komatsuzawa^{2,3} (¹Dept. Biol. Endo., Hiroshima Univ. Grad. Sch. Biomed. HS, ²Dept. Bact., Hiroshima Univ. Grad. Sch. Biomed. HS, ³Pjt. Res. Ctr. for Nosocomial Infectious Dis., Hiroshima Univ., ⁴Japan Inst. Hlth. Secur, AMR Res. Ctr., Natl. Inst. Infectious Dis.)

P2-108

Analysis of the drug target of the anti-TB compound OCT313: PTA is a potential drug target

○Takemasa Takii^{1,2,3}, Tomohiro Hasegawa², Saotomo Itoh⁴, Shinji Maeda⁵, Takayuki Wada⁶, Yasuhiro Horita⁷, Akihito Nishiyama⁸, Sohkiichi Matsumoto^{8,9}, Naoya Ohara¹⁰, Aoi Kimisima³, Yuhikuro Asami³, Shigeaki Hida², Kikuo Onozaki² (¹Dept. Mycobacterium Ref. and Res., the Res. Inst. Tuberculosis, Japan Anti-Tuberculosis Associ., ²Dept. Hygi. Chem., Grad. Sch. Pharm. Sci., Nagoya City Univ., ³Omura Satoshi Memori. Inst., Kitasato Univ., ⁴Lab. Hygi. Chem., Sch. Pharm., Aichi Gakuin Univ., ⁵Grad. Sch. Pharm. Sci., Hokkaido Univ. Sci., ⁶Dept. Microbiol., Grad. Sch. Hum. Life and Eco., Osaka Metro. Univ., ⁷Dept. Clin. Pharm., Grad. Sch. Med. Sci., Nagoya City Univ., ⁸Dept. Bacteriol., Niigata Univ. Sch. Med., ⁹Dept. Bacteriol., Osaka Metro. Univ. Grad. Sch. Med., ¹⁰Dept. Oral Microbiol., Grad. Sch. Med., Denti. Pharm. Sci., Okayama Univ.)

P2-109

Uncovering the Intrinsic Mechanisms Driving Rifamycin Resistance in *Mycobacterium abscessus*

○Kotaro Sawai¹, Hidetada Hirakawa², Yuta Morishige³, Takehiko Mima⁴, Yusuke Minato¹ (¹Div. Anti-Infect. Drug Discov., Ctr. Infect. Dis. Res., Fujita Health Univ., ²Dept. Microbiol., Sch. Med., Gunma Univ., ³Dept. Mycobacteriology, RIT, ⁴Microbiol., Dept. Med. Technol., Fac. Health Sci., Ehime Pref. Univ. Health Sci.)

P2-110/FL2-28

Growth inhibition of *Escherichia coli* by sphingoid base synthesis genes scattered across bacteria

○Jun Kawaguchi¹, Hiroki Uchiyama², Noritaka Iwai², Masanori Toyofuku^{1,3,4}, Nobuhiko Nomura^{1,3,4,5}, Masaaki Wachi² (¹Fac. Life Envir. Sci., Univ. Tsukuba, ²Dept. Life Sci. Technol., Science Tokyo, ³MiCS, Univ. Tsukuba, ⁴TIAR, Univ. Tsukuba, ⁵TARA, Univ. Tsukuba)

P2-111

Synthetic Rebooting of Non-Replicative Broad-Range Phage Capsids as a Biosafe Antimicrobial

○Maniruzzaman¹, Maruthan Karthik¹, Yuya Hidaka¹, Shinjiro Ojima², Kotaro Kiga^{1,2}, Kazuhiko Miyanaga¹, Yoshifumi Aiba¹, XinEe Tan¹, Shinya Watanabe¹, Longzhu Cui¹ (¹Div. Bacteriol. Sch. Med., Jichi Med. Univ., ²Dept. Drug Development, NIID, JIHS)

P2-112

Phage Photosensitizer and Nanorod Conjugates for Photothermal and Photodynamic Biofilm Eradication

○Saied Hussein, Jayathilake Sarangi, Tomofumi Kawaguchi, Srivani Veerananarayanan, Razib Hossain, Vivekanandan Palaninathan, Shinya Watanabe, Longzhu Cui (Div. Bacteriology, Dept. Infection and Immunity, Sch. Medicine, Jichi Medical Univ.)

P2-113**Distribution and mechanism analysis of bacteriocin susceptibility in *Staphylococcus aureus* strains**

○Airi Odawara^{1,2}, Yujin Suzuki¹, Miki Matsuo^{1,3}, Souichi Yanamoto², Hitoshi Komatsuzawa^{1,3} (¹Dept. Bacteriology, Hiroshima Univ. Grad. Sch. Biomedical and Health Sciences, ²Dept. Oral Oncology, Hiroshima Univ. Grad. Sch. Biomedical and Health Sciences, ³Project Research Centre for Nosocomial Infectious Diseases, Hiroshima Univ.)

P2-114**Effects of β -Caryophyllene on antimicrobial susceptibility of MRSA - II**

○Harue Nomura¹, Katsuya Sakuma², Yasunori Isshiki¹ (¹Dept. Microbiol., Sch. Pharm., Josai Univ., ²Ogawa & Co.)

P2-115/FL2-29**A Study on the Diversity of Fatty Acid Sensitivity in *Staphylococcus aureus***

○Yasuyuki Asada^{1,2}, Keijuro Ohdan^{1,3}, Yujin Suzuki¹, Miki Kawada-Matsuo¹, Tomonao Aikawa³, Souiti Yanamoto², Hitoshi Komatsuzawa¹ (¹Dept. Bacteriology, Grad. Sch. Biomedical Sciences, Hiroshima Univ., ²Dept. Oral Oncology, Grad. Sch. Biomedical and Health Sciences, Hiroshima Univ., ³Dept. Oral and Maxillofacial Surgery, Grad. Sch. Biomedical and Health Sciences Hiroshima Univ.)

P2-116**Validating a Dormancy-Inducing Protein as a Therapeutic Target in *Mycobacterium tuberculosis***

Zakiyathun Nuha, Amina Shaban, Atsuki Takeishi, Shafiul Islam, Yuko Ito, Yuriko Ozeki, Yutaka Yoshida, Akihito Nishiyama, ○Sohkichi Matsumoto (Dept. Bacteriol., Sch. Med., Niigata Univ.)

P2-117**Serine-proline dipeptide that elicits the potential antibacterial activity of polymyxin B**

○Hirofumi Shimomura¹, Kiyofumi Wanibuchi², Minori Tsuyuguchi², Mitsuru Shoji², Shunji Hayashi¹ (¹Dept. Microbiol. Sch. Med. Kitasato Univ., ²Yokohama Univ. Pharm.)

P2-118**Stepwise wzy/wbpX mutations define phage infectivity via LPS length modulation in *P. aeruginosa***

○Jumpei Fujiki¹, Keisuke Nakamura¹, Tomohiro Nakamura^{1,2}, Moritz Ertelt³, Peter Braun³, Daigo Yokoyama¹, Rui Hiya¹, Nana Kimura¹, Hidetomo Iwano¹ (¹Dept. Vet. Med., Rakuno Gakuen Univ., ²Sch. Med., Univ. Calif. San Diego (UCSD), ³Immunol. Infect. Pand. Res., Fraunhofer Inst. Transl. Med. Pharmacol.)

P2-119**Development of Non-Replicating Bacteriocin-loaded Phage Capsid Cocktail with Broad-Spectrum**

○Hidetaka Uematsu¹, Zaman Maniru¹, Kazumasa Sasaki¹, Tomofumi Kawaguchi¹, XinEe Tan¹, Yoshifumi Aiba¹, Shinya Watanabe¹, Kazuhiko Miyanaga¹, Kotaro Kiga^{1,2}, Longzhu Cui¹ (¹Div. Bacteriol, Sch. Med., Jichi Med. Univ., ²Dept., Drug Development., NIID., JIHS)

P2-120**Comparative analysis of the inhibitory effects of tan MUJI tea varieties on cariogenic bacteria**

○Manami Eguchi^{1,2}, Ryota Yamasaki², Yoshie Yoshioka², Wataru Ariyoshi² (¹Sch. Oral Health Sciences, Kyushu Dental Univ., ²Dept. Advanced Pathophysiological Science, Kyushu Dental Univ., ³Dept. Advanced Pathophysiological Science, Kyushu Dental Univ., ⁴Dept. Advanced Pathophysiological Science, Kyushu Dental Univ.)

P2-121**Royal jelly inhibits the biofilm formation in oral pathogenic bacteria**

○Kanako Takesugi^{1,2}, Nobuhiro Wakamatsu², Yoshie Yoshioka², Wataru Ariyoshi², Ryota Yamasaki² (¹Sch. Dentistry, Kyushu Dental Univ., ²Dept. Advanced Pathophysiological Science, Kyushu Dental Univ.)

P2-122**Spiculisporic Acid Derivatives as Potential Anti-Caries Agents Against *Streptococcus mutans***

○Chutipa Sirithienthong, Ryota Yamasaki, Yoshie Yoshioka, Wataru Ariyoshi (Div. Infection and Molecular Biology, Kyushu Dental Univ.)

P2-123**Antibiotics that do not increase the extracellular NADase activity of *Streptococcus pyogenes***

○Ichiro Tatsuno, Masanori Isaka, Tadao Hasegawa (Dept. Bacteriol., Sch. Med., Nagoya-City Univ.)

P2-124**Modulatory Effects of the Biosurfactant Surfactin on Acidogenic Activity of *Streptococcus sobrinus***

○Nobuhiro Wakamatsu^{1,2}, Ryota Yamasaki², Yoshie Yoshioka², Manabu Habu¹, Wataru Ariyoshi² (¹Dept. Oral and Maxillofacial Disease Control, Kyushu Dental Univ., ²Dept. Advanced Pathophysiological Science, Kyushu Dental Univ.)

P2-125**Effects of various medical herb extracts on virulence-related phenotypes of oral pathogenic bacteria**

○Yukino Kamogawa^{1,2}, Mai Osaka³, Manami Eguchi³, Yoshie Yoshioka², Manabu Habu¹, Wataru Ariyoshi², Ryota Yamasaki² (¹Dept. Oral and Maxillofacial Disease Control, Kyushu Dental Univ., ²Dept. Advanced Pathophysiological Science, Kyushu Dental Univ., ³Dept. Sch. Oral Health Sciences Fac. Dentistry, Kyushu Dental Univ.)

P2-126/FL2-30

A Study on the Prevention of Periodontal Disease by Phytosphingosine

○Mutsumi Aihara¹, Naoya Sato¹, Miu Taniguchi¹, Hiromichi Yumoto², Akihiro Shirai¹, Tamotsu Tanaka¹ (¹Grad. Sch. Tech. Indust. & Social Sci., Tokushima Univ., ²Grad. Sch. Inst. Biomed Sci., Tokushima Univ.)

P2-127

Potential of Azole Antifungal Drugs by Inhibition of the Rbd-SrbA Pathway in Dermatophytes

○Masaki Ishii¹, Hirona Ichikawa¹, Takeshi Tsusaka¹, Tsuyoshi Yamada^{2,3}, Shinya Oohata¹ (¹Res. Inst. Pharm. Sci., Facu. Pharm., Musashin Univ., ²Teikyo Univ. Inst. Med. Mycol., ³Asia Inter. Inst. Infect. Dis. Cont.)

P2-128

Isolation of Bacteriophages Targeting *Stenotrophomonas maltophilia*

○Taiga Nagai¹, Bingxin Song^{1,2}, Saki Nishihama^{1,2}, Miki Kawada-Matsuo^{1,3}, Hitoshi Komatsuzawa^{1,3} (¹Dept. Bact., Hiroshima Univ. Grad. Sch. Biomed. HS, ²Dept. Biol. Endo., Hiroshima Univ. Grad. Sch. Biomed. HS, ³Pjt. Res. Ctr. for Nosocomial Infectious Dis., Hiroshima Univ.)

P2-129/FL2-31

Analysis of Flagellar Motility Inhibition Mechanisms by Rhatannin

○Momona Sakamoto¹, Uki Kimura¹, Koji Tokoyoda¹, Minori Umeda², Kumiko Osaki², Atsushi Ishihara², Satoshi Shibata^{3,4} (¹Sch. Life Sci., Fac. Med., Tottori Univ., ²Dept. Agric., Life & Environ. Sci., Fac. Agric., Tottori Univ., ³Div. Bacteriol., Dpt. Microbiol & Immunol., Fac. Med. Tottori Univ., ⁴AIDGH, Tottori Univ)

P2-130/FL2-32

Molecular Mechanism of the Antibiotic Potentiator, Magnolol, in Combination with Antibiotics

○Ryoya Yamamoto¹, Natsuki Yamanaka¹, Tetsuhiro Nemoto², Akiko Takaya^{1,3} (¹Dep. Infect. Cont. Sci., Grad. Sch. Pharm. Sci., Chiba Univ., ²Dep. Pharm Chem., Grad. Sch. Pharm. Sci., Chiba Univ., ³MMRC, Chiba Univ.)

P2-131

Evaluation of the antibacterial activity of long-chain fatty acids against *Streptococcus mutans*

○Fukutaro Matsuo^{1,2}, Miki Matsuo², Kotaro Tanimoto¹, Hitoshi Komatsuzawa² (¹Dept. Orthodontics and Craniofacial Development Biology, Grad. Sch. Biomedical and Health Sciences, Hiroshima Univ., ²Dept. Bacteriology, Grad. Sch. Biomedical and Health Sciences, Hiroshima Univ.)

7. Antimicrobial agents and resistance

-b. Antimicrobial resistance

P2-132/FL2-33

Susceptibility to unsaturated fatty acids and antibiotic synergy in *Enterococcus* strains

○Keijuro Ohdan¹, Yasuyuki Asada^{2,3}, Saki Nishihama^{2,4}, Miki Kawada-Matsuo², Hideki Shiba⁴, Souichi Yanamoto³, Tomonao Aikawa¹, Hitoshi Komatsuzawa² (¹Dept. Oral and Maxillofacial Surgery, Hiroshima Univ. Grad. Sch. Biomedical and Health Sciences, ²Dept. Bacteriology, Hiroshima Univ. Grad. Sch. Biomedical and Health Sciences, ³Dept. Oral Oncology, Hiroshima Univ. Grad. Sch. Biomedical and Health Sciences, ⁴Dept. Biological Endodontics, Hiroshima Univ. Grad. Sch. Biomedical and Health Sciences)

P2-133/FL2-34

Analysis of Aminoglycoside Resistance Mechanisms in Enterobacterales from Sewage

○Kensei Minamigawa, Chihiro Norizuki, Jun-ichi Wachino (Dept. Clin. Microbiol., Sch. Med Sci., Fujita Health Univ.)

P2-134

Molecular epidemiology of ESBL-producing Gram-negative bacteria in agricultural community drainage

○Chihiro Norizuki¹, Kunihiko Nakane², Jun-ichi Wachino¹ (¹Dept. Clin. Microbiol., Fac. Med. Sci., Fujita Health Univ., ²Okazaki City Public Health Center)

P2-135

Molecular Epidemiology and Drug Resistance of *Bacillus cereus* from Southeast Asian Imported Foods

○Kazuho Sakaguchi, Nagisa Watanabe, Tatuya Nakayama (Dept. Food Hyg., Grad. Int. Sci. Life., Hiroshima Univ.)

P2-136/FL2-35

Rapid Detection of Drug-Resistant Bacteria Using a PMART-PCR-Nanopore sequencing

○Rajalakshmi Balasubramanian¹, Yu Suzuki², Satomi Asai³, Eisaku Yoshihara³, Miki Miyazawa³, Tadashi Imanishi¹ (¹Dept. Mol. Life Sci., Sch. Med., Tokai Univ., ²Grad. Sch. Med., Tokai Univ., ³Dept. Clin. Lab. Med., Sch. Med., Tokai Univ.)

P2-137

The antimicrobial resistance in mastitis-causing *Escherichia coli* isolated from the university farm

○Akiko Nakashima¹, Naoki Suzuki², Toshi Shimamoto³, Tadashi Shimamoto³ (¹Lab. Food Microbiol. Hygiene, Sch. Appl. Biol. Sci., Hiroshima Univ., ²Dairy Ecosystem Res. Develop. Ctr., Hiroshima Univ., ³Dept. Microbiol. Food Safety, Grad. Sch. Integrated Sci. Life, Hiroshima Univ.)

P2-138**Analysis of virulence genes and antimicrobial resistance of Gram-positive mastitis-causing bacteria**

○Yuta Yamamoto¹, Naoki Suzuki², Xedzro Christian¹, Toshi Shimamoto¹, Tadashi Shimamoto¹ (¹Dept. Microbiol. Food Safety, Grad. Sch. Integrated Sci. Life, Hiroshima Univ., ²Dairy Ecosystem Res. Develop. Ctr., Hiroshima Univ.)

P2-139**Genomic analysis of *K. pneumoniae* and its relationship to mastitis and antimicrobial resistance**

Toshi Shimamoto¹, Christian Xedzro¹, Naoki Suzuki², ○Tadashi Shimamoto¹ (¹Dept. Microbiol. Food Safety, Grad. Sch. Integrated Sci. Life, Hiroshima Univ., ²Dairy Ecosystem Res. Develop. Ctr., Hiroshima Univ.)

P2-140/FL2-36**Oral Hygiene Status and Antimicrobial Resistance Genes in the Oral Microbiome among Thai Children**

○Momoko Kobayashi^{1,2}, Lapirattanakul Jinthana³, Masayuki Ono¹, Daisuke Motooka^{4,5}, Tansriratanawong Kallapat⁶, Tantivitayakul Pornpen³, Smutkeeree Apiwan⁷, Shigetada Kawabata^{1,8}, Masaya Yamaguchi² (¹Dept. Microbiol., Grad. Sch. Dent., Osaka Univ., ²NIBN, ³Dept. Oral Microbiol., Mahidol Univ., ⁴OUBIC, ⁵IFReC, ⁶Dept. Oral Med. Periodontol., Mahidol Univ., ⁷Dept. Pediatr. Dent., Mahidol Univ., ⁸CiDER, Osaka Univ.)

P2-141**Metabolic Remodeling by RNA Polymerase Mutations Mediates Reduced β -Lactam Susceptibility in OS-MRSA**

○Shinya Watanabe, Chijioke Nsofor, Xin-Ee Tan, Yoshifumi Aiba, Kazuhiko Miyanaga, Srivani Veeranarayanan, Yuzuki Shimamori, Longzhu Cui (Div. Bacteriology, Dept. Infectious Diseases, Jichi Medical Univ.)

P2-142**Molecular Epidemiology and Two-Component System-Mediated Toxin Regulation of MRSA in Kure City**

○Hidetomo Kobayashi¹, Soshi Seike¹, Shintaro Noumi², Aya Sasaki^{2,3}, Yusei Hamada², Naokatsu Horita³, Keita Yamada³, Sizuka Suesada³, Kouji Kimura⁴, Hiroyasu Yamanaka¹ (¹Labo. Mol. Microbiol. Sci., Fac. Pharm. Sci., Hiroshima Int. Univ., ²Dept. Clinical Lab., Kure Kyosai Hospital, ³Infection Control Room, Kure Kyosai Hospital, ⁴Res. Ctr. for Pharm. Health Care and Sci., Fac. Pharm. Sci., Hiroshima Int. Univ.)

P2-143**Mitochondrial GTPase Gem1 affects azole susceptibility in the pathogenic yeast *Candida glabrata***

○Michiyo Sato-Okamoto, Keiko Nakano, Kaname Sasamoto, Azusa Takahashi-Nakaguchi, Masashi Yamaguchi, Hiroji Chibana (Med. Mycol. Ctr., Chiba. Univ.)

P2-144/FL2-37**Development of a phage de-carrier to prevent the pandemic spread of antimicrobial-resistant bacteria**

○Mana Tohyama¹, Toyotaka Sato^{1,2}, Jumpei Fujiki³, Jirachaya Toyting-Hiraishi¹, Akio Suzuki^{1,2}, Hidetomo Iwano³, Motohiro Horiuchi^{1,2} (¹Dept. Veterinary Hygiene, Sch. Vet., Hokkaido Univ., ²One Health Research Center, Hokkaido Univ., ³Dept. Veterinary Biochemistry, Sch. Vet Rakuno Gakuen Univ.)

P2-145**Survey of macrolide-resistant *Rhodococcus equi* in Japan and identification of a novel Erm gene**

○Yasunori Suzuki¹, Minoru Fujimoto², Shinji Takai², Tsutomu Kakuda² (¹Lab. Veterinary Hygiene, Inst. Agriculture, Tokyo Univ. Agriculture and Technology, ²Lab. Animal Hygiene, Kitasato Univ. Sch. Veterinary Medicine)

P2-146**Killing of *Staphylococcus aureus* via AB-capsid delivery of Cas13a targeting abundant transcripts**

○Pedro Fernandes, Sarah Hossain, Taufik Hakim, Anujin Batbold, XinEe Tan, Yoshifumi Aiba, Kazuhiko Miyanaga, Shinya Watanabe, Longzhu Cui (Div. Bacteriology, Dept. Infection and Immunity., Sch. Med., Jichi Med. Univ.)

P2-147**Development of a potent CRISPR-Cas13a-based antibacterial agent through crRNA sequence optimization**

○Sarah Hossain, Xin-Ee Tan, Pedro Fernandes, Taufik Hakim, Anujin Batbold, Yoshifumi Aiba, Shinya Watanabe, Kazuhiko Miyanaga, Longzhu Cui (Div. Bacteriol., Dept. Infect. Immunity, Sch. Med., Jichi Med. Univ.)

P2-148**Elucidation of quinolone resistance mechanisms in *Morganella morganii* by genomic analysis**

○Aoi Dotsu¹, Miki Okuno², Takeshi Yamamoto², Yoshitoshi Ogura² (¹Kurume Univ. Sch. Med., ²Dept. Infectious Med., Kurume Univ. Sch. Med.)

P2-149**Monitoring LPS Expression Dynamics in Colistin-Heteroresistant *Acinetobacter baumannii***

○Hikaru Kitamura, Go Kamoshida, Ayaka Inukai, Kako Masuta, Takato Asami, Kazuki Kumakura, Yuki Kaya, Daiki Yamaguchi, Yuji Morita (Dept. Infect. Cont. Sci., Meiji Pharm. Univ.)

P2-150**Colistin-Dependent Phenotypes as a Transient Driver of Heteroresistance in *Acinetobacter baumannii***

○Takato Asami, Go Kamoshida, Takuri Ito, Hikaru Kitamura, Keita Oki, Kazuki Kumakura, Ryoga Sato, Fuga Ishino, Yuki Kaya, Daiki Yamaguchi (Dept. Infect. Cont. Sci., Meiji Pharm. Univ.)

P2-151**Analysis of Cefotaxime and Meropenem Resistant Bacteria in Imported Food from Southeast Asia**

○Yuki Kasumi¹, Machika Saito¹, Natsuki Ohata², Tatsuya Nakayama¹ (¹Dept. Food Hyg., Grad. Int. Sch. Sci. Life, Hiroshima Univ., ²Kobe Inst. Health)

P2-152**Atypical susceptibilization of aging biofilm cells to antibiotics**

○Keiichiro Hara¹, Shinya Sugimoto^{1,2,3}, Yuki Kinjo^{1,2} (¹Dept. Bacteriol., Jikei Univ. Sch. Med., ²Jikei Center for Biofilm Sci. Technol., Jikei Univ. Sch. Med., ³Lab. Amyloid Reg., Jikei Univ. Sch. Med.)

P2-153/FL2-38**Phage Disinfection Effect on Food Surfaces in Antimicrobial-Resistant Bacteria**

Mitsuoki Kawano, ○Sayaka Maeda, Moe Koguchi, Mizuho Fujikawa, Yuuna Yamamichi, Mizuki Nakamura, Anmi Yamanaka (Dept. Nutr. Sci., Nakamura Gakuen Univ.)

P2-154/FL2-39**Occurrence and resistance of ESBL-producing bacteria in retail chicken meat and drip fluid**

○Runa Nakashima¹, Aoi Kiuchi¹, Yui Sei¹, Reina Kuwano¹, Momoka Kondo¹, Tomoka Matsuo¹, Sayaka Maeda¹, Kohei Kondo², Mitsuoki Kawano¹ (¹Dept. Nutr. Sci., Nakamura Gakuen Univ., ²AMR Center, NIID)

P2-155/FL2-40**Phenotypic and virulence traits of *Enterococcus* spp. isolated from a dairy farm: a comparative study**

○Christian Xedzro¹, Kazumi Yokoo¹, Naoki Suzuki², Toshi Shimamoto¹, Tadashi Shimamoto¹ (¹Lab. Food Microbiol., Sch. App. Biol. Sci., Hiroshima Univ., ²Dairy Eco. Res. Develop. Ctr., Hiroshima Univ.)

P2-156**Carbapenemase-Producing *Escherichia coli* and *Acinetobacter* spp. from Cambodia's Environment**

○Daraden Vang^{1,2}, Pilirani Chisembe¹, Virak Mot², Leap Heng², Sokong Ke², Ann Vuth², Darapheak Chau², Masato Suzuki³, Ryo Kinoshita-Daitoku¹, Eisuke Kuroda¹, Kouji Kimura¹, Yohei Kobayashi⁴, Keigo Shibayama¹ (¹Dept. Bacteriol., Grad. Sch. Med., Nagoya Univ., ²Natl. Inst. Pub. Health, ³AMR Center, Natl. Inst. Infect. Dis., ⁴Dept. Microbiol., Nagoya City Pub Health Res. Inst.)

P2-157**Potential for Antimicrobial Resistance in *H. influenzae* with High Horizontal Gene Transfer Ability**

○Takeaki Wajima, Emi Tanaka, Kei-ichi Uchiya (Dept. Microbiol., Fac. Pharm., Meijo Univ.)

P2-158**Characterization of fluoroquinolone-resistant *Escherichia coli* from healthy meat chickens in Japan**

○Taketoshi Iwata¹, Yukino Tamamura-Andoh¹, Anna Momoki¹, Hirotaka Furuya¹, Nobuo Arai¹, Ayako Watanabe-Yanai¹, Masahiro Kusumoto^{1,2} (¹Natl. Inst. Anim. Health, NARO, ²Grad. Sch. Vet. Sci., Osaka Metro. Univ.)

P2-159**Antimicrobial Susceptibility of *Escherichia coli* Isolated from Slaughterhouses**

Ginji Hattori^{1,2}, Taku Miyazaki², Miho Kobayashi², Yuuya Miyajima², Tomoka Nagamine², Suguru Amakawa³, Tomoya Imamura¹, Yukie Koga², Masami Okumura², Kana Taketani², ○Azusa Someya¹ (¹Dept. Ind. Life Sci., Fac. Life Sci., Kyoto Sangyo Univ., ²Dept. Anim. Med. Sci., Fac. Life Sci., Kyoto Sangyo Univ., ³Dept. Front. Life Sci., Fac. Life Sci., Kyoto Sangyo Univ.)

P2-160**Analysis of a novel penicillin-binding protein gene on a pZB18-like plasmid in *Enterococcus faecium***

○Dan Watanabe¹, Yusuke Hashimoto¹, Masato Suzuki², Ikuro Kasuga^{3,4}, Takahiro Nomura¹, Natsuko Ota¹, Jun Kurushima⁵, Hidetada Hirakawa¹, Bo Zheng⁶, Haruyoshi Tomita^{1,5} (¹Dept. Bacteriol., Grad. Sch. Med., Gunma Univ., ²Antimicrobial Resistance Research Center, National Inst. Infectious Diseases, ³Research Center for Advanced Science and Technology, The Univ. Tokyo, ⁴Dept. Urban Engineering, The Univ. Tokyo, ⁵Lab. Bacteriol. Drug Resist., Grad. Sch. Med., Gunma Univ., ⁶Peking Univ. First Hospital)

P2-161/FL2-41**Analysis of disinfectant resistance mechanism via two-component system SarRS in *Serratia marcescens***

○Koshiro Hyakutome¹, Moyu Tanishige², Riho Yasuoka², Yuma Kondo¹, Daichi Morita¹, Wakano Ogawa³, Takanori Kumagai¹, Teruo Kuroda¹ (¹Dept. Microbiol. Med., Sch. Med. Sci., Hiroshima Univ., ²Sch. Pharm., Hiroshima Univ., ³Sch. Pharm., Shujitsu Univ.)

P2-162**Factors affecting SCCmec transfer in mixed-biofilm natural transformation assay**

○Momoko Matsuoka¹, Mais Maree^{2,3}, Yuri Ushijima², Nozomu Obana², Kazuya Morikawa² (¹Grad. Sch. Comprehensive Human Sciences, Univ. Tsukuba, ²Inst. Med., Univ. Tsukuba, ³The Royal Veterinary College, Univ. London)

P2-163**Transcriptomic profiling of multidrug-resistant strains of *Klebsiella pneumoniae***

○Wakano Ogawa¹, Daichi Morita², Makoto Hiromura³, Yoichi Yamada¹, Teruo Kuroda² (¹Dept. Microbiol. Sch. Pharm., Shujitsu Univ., ²Grad. Sch. Bio. Heal. Sci., Hiroshima Univ., ³Sch. Pharm., Daiichi Univ. Pharm.)

P2-164**Colistin-Resistant Enterobacterales in Southeast Asian Imported Foods: Diversity and Resistance**

○Machika Saito, Yuki Kasumi, Tatsuya Nakayama (Dept. Food Hyg., Grad. Int. Sci. Life., Hiroshima Univ.)

P2-165**Genetic Analysis of IMI-2 Carbapenemase-producing *Escherichia coli* Isolated from Sewage in Osaka**

○Naohiro Hara¹, Fumie Adachi², Naomi Sakon², Yuki Matsumoto³, Daisuke Motooka³, Yo Sugawara⁴, Motoyuki Sugai⁴, Ryuji Kawahara² (¹Dept. Anesth. & ICM., Osaka Univ., ²OIPH, ³Dept. Infect. Metagenomics., RIMD, Osaka Univ., ⁴AMR-RC, NIID, JIHS)

P2-166/FL2-42**Hospital Wastewater as hotspot of ESKAPE Pathogens: Focus on *Klebsiella pneumoniae***

○Bakon Sophia Karen¹, Sholehah Zakaria Nur Fatimah¹, Hashim Hazimah², Jamilan Mohd Azerulazree³, Mohamad Zuraifah Asrah¹ (¹Health Risk Assessment Unit, Environmental Health Research Centre, Inst. Medical Research, National Inst. Health, ²Pharmacy Practice and Development Division, Ministry of Health Malaysia, ³Nutrition Unit, Nutrition, Metabolic and Cardiovascular Research Centre, Inst. Medical Research, National Inst. Health)

7. Antimicrobial agents and resistance -c. Others

P2-167**Strategic Construction of A Phage Library Targeting Outer Membrane Proteins of *E. coli* ST131**

○Kento Habe¹, Kanata Nakatsuka^{1,2}, Tomoyoshi Kaneko^{1,2}, Satoshi Tsuneda^{1,2} (¹Dept. Life Sci. Med. Biosci., Sch. Adv. Sci. Eng., Waseda Univ., ²Phage Therapy Inst., Waseda Univ.)

P2-168**Polymorphisms in Multiple Loop Regions of *E. coli* OmpC Coordinately Regulate Phage Susceptibility**

○Kanata Nakatsuka^{1,2}, Tomoyoshi Kaneko^{1,2}, Yuichi Otsuka³, Yoshifumi Aiba⁴, Longzhu Cui⁴, Kazuhiko Miyanaga^{2,4}, Yasunori Tanji², Satoshi Tsuneda^{1,2} (¹Dept. Life Sci. Med. Biosci., Sch. Adv. Sci. Eng., Waseda Univ., ²Phage Therapy Inst., Waseda Univ., ³Grad. Sch. Science and Engineering, Saitama Univ., ⁴Div. Bacteriol., Sch. Med., Jichi Med. Univ.)

P2-169**Efficacy Evaluation of Phage-Antibiotics Combination Against Phage-Unsusceptible *S.aureus* Strains**

○Hiromasa Mizutani¹, Tomoyoshi Kaneko^{1,2}, Azam Aa³, Kotaro Kiga^{1,2,3,4}, Satoshi Tsuneda^{1,2} (¹Dept. Life Sci. Med. Biosci., Sch. Adv. Sci. Eng., Waseda Univ., ²Phage Therapy Inst., Waseda Univ., ³Dept. Drug Dev., NIID, JIHS, ⁴Div. Bacteriol., Sch. Med., Jichi Med. Univ.)

P2-170**Collection and Evaluation of Lytic Activity of Bacteriophages Targeting LPS in *E. coli***

○Akari Chiba¹, Kanata Nakatsuka^{1,2}, Tomoyoshi Kaneko^{1,2}, Kazuhiko Miyanaga^{2,3}, Satoshi Tsuneda^{1,2} (¹Dept. Life Sci. Med. Biosci., Sch. Adv. Sci. Eng., Waseda Univ., ²Phage Therapy Inst. Waseda Univ., ³Div. Bacteriol., Sch. Med., Jichi Med. Univ.)

P2-171**Trades off Between *Staphylococcus aureus* and Phage Coevolution**

○Guangli Han¹, Tomoyoshi Kaneko^{1,2}, Hiromasa Mizutani¹, Satoshi Tsuneda^{1,2} (¹Dept. Life Sci. Med. Biosci., Grad. Sch. Adv. Sci. Eng., Waseda Univ., ²Phage Therapy Inst., Waseda Univ.)

P2-172**Comparative Evaluation of Phage Purification Methods for Removal of Gram Negative Bacterial LPS**

○Yuna Tabata¹, Tomoyoshi Kaneko^{1,2}, Satoshi Tsuneda^{1,2} (¹Dept. Life Sci. Med. Biosci., Sch. Adv. Sci. Eng., Waseda Univ., ²Phage Therapy Inst., Waseda Univ.)

P2-173**Lytic Activity of Broad-Host-Range *Escherichia coli* Phage Against Clinical Isolates**

○Ryotaro Yasuda¹, Tomoyoshi Kaneko^{1,2}, Kanata Nakatsuka^{1,2}, Satoshi Tsuneda^{1,2} (¹Dept. Life Sci. Med. Biosci., Sch. Adv. Sci. Eng., Waseda Univ., ²Phage Therapy Inst., Waseda Univ.)

P2-174**Mutant analysis of the catalytic domain of *Clostridioides difficile* amidase CD10360**

○Hiroshi Sekiya¹, Matsuri Murakami¹, Yui Futagami¹, Suguru Kouno¹, Ryo Yamamoto¹, Yasuhiro Nonaka², Shigehiro Kamitori³, Eiji Tamai¹ (¹Dept. Infect. Dis., Pharm., Matsuyama Univ., ²Dept. Pharma., Sch. Med., Kagawa Univ., ³Res. Infra. Cent., Sch. Med., Kagawa Univ.)

P2-175/FL2-43**Phage susceptibility linked to K5 capsule genes in ESBL-producing uropathogenic *Escherichia coli***

○Debora Satie Nagano¹, Mayuko Tanaka¹, Junko Nishimura¹, Yasunori Tanji², Tomoko Hanawa¹, Takeaki Matsuda^{1,2} (¹Dept. Gen. Med., Sch. Med., Kyorin Univ., ²Dept. Traum. Crit. Care Med., Kyorin Univ. Sch. Med)

P2-176**Changes in antibiotic susceptibility of *E. coli* irradiated with near-infrared femtosecond laser**

○Masaaki Minami¹, Hiroshi Takase² (¹Dept. Bacteriol., Grad. Sch. Med., Nagoya City Univ., ²Core Lab., Grad. Sch. Med., Nagoya City Univ.)

P2-177**Real-time drug efficacy monitoring in mycobacteria using Akaluc bioluminescence**

Md Shafiu Islam¹, Atsuki Takeishi¹, Yoshitaka Tateishi², Akihito Nishiyama¹, Amina Shaban¹, Yuriko Ozeki¹, Yutaka Yoshida¹,
 ○Sohkichi Matsumoto¹ (¹Dept. Bacteriol., Sch. Med., Niigata Univ., ²Dept. Microbiol. Fukushima Medical Univ.)

8. Others

P2-178**Effect of allyl isothiocyanate on *Candida albicans***

○Muneaki Tamura^{1,2}, Hideki Nishiura^{3,4}, Kenichi Imai^{1,2}
 (¹Dept. Microbiol. Immunol., Nihon Univ. Sch. Dent., ²Div. Immunol. Pathobiol., Dent. Res. Cent., Nihon Univ. Sch. Dent.,
³Div. Appl. Oral Sci., Nihon Univ. Sch. Dent. Grad. Sch. Dent.,
⁴Dept. Complete Denture Prosthodontics, Nihon Univ. Sch. Dent.)

P2-179/FL2-44**Report on National Stockpile Utilization of Equine Antitoxins (Gas Gangrene, Diphtheria, Botulism)**

○Kenji Ueda¹, Motohide Takahashi², Toru Hifumi³, Manabu Ato⁴ (¹KM Biologics Co., Ltd. Aso Plant, ²Kumamoto Health Sciences Univ. Toxin and Biologicals Research Laboratory,
³Kyorin Univ. Hospital Emergency and General Medicine, ⁴NIID Leprosy Research Center)

P2-180**The effect of nano-pillars on the adhesion and biofilm formation of *Candida albicans***

○Hirokazu Kobayashi^{1,2}, Machiko Kasai², Tsukasa Akasaka³, Yasuhiro Yoshida³, Akira Hasebe² (¹Dept. Oral Diag. and Med., Grad. Sch. Dental Med., Hokkaido Univ., ²Dept. Microbiol., Grad. Sch. Dental Med., Hokkaido Univ., ³Dept. Biomat. and Bioeng., Grad. Sch. Dental Med., Hokkaido Univ.)

P2-181/FL2-45**Development and Dissemination of Diagnostic Products for NHPH Infections**

○Hidenori Matsui^{1,3}, Masato Suzuki², Sae Aoki¹, Keigo Shibayama³, Tsuyoshi Kennri¹, Kengo Tokunaga⁴, Emiko Rimbara¹ (¹Dept. Bacteriol. II, JIHS, NIID, ²AMR Res. Cent., JIHS, NIID, ³Dept. Bacteriol., Sch. Med., Nagoya Univ., ⁴Dept. PM., Sch. Med., Kyorin Univ.)

P2-182**Transcriptomic analysis of *P. gingivalis* in response to alkaline conditions**

○Noriko Shinozaki-Kuwahara¹, Masanori Saito², Reiri Takeuchi¹, Chieko Taguchi³, Yoko Tanaka⁴, Manabu Yaguchi⁴, Takatoshi Nomura⁵, Yuta Amino⁶, Koichi Hiratsuka¹ (¹Dept. Biochem. Mol. Biol., Nihon Univ. Sch. Dent. at Matsudo, ²Dept. Microbiol. Immunol., Nihon Univ. Sch. Dent. at Matsudo., ³Dept. Community Oral Health, Nihon Univ. Sch. Dent. at Matsudo,
⁴Dept. Lab. Med. Dent. Compromised Patient, Nihon Univ. Sch. Dent. at Matsudo, ⁵Dept. Special Needs Dent., Nihon Univ. Sch. Dent. at Matsudo, ⁶Dept. Oral Implantology, Nihon Univ. Sch. Dent. at Matsudo)

P2-183**Photothermal-Immune Conversion of Cold Tumors into Hot Tumors Using bEV-Gold Nanoparticle Complexes**

○Wei Xu¹, Naoki Murakami¹, Yukio Fujiwara², Takuro Niidome¹ (¹FAST, Kumamoto Univ., ²Pathology, Kumamoto Univ.)

Luncheon Seminar

LS1

Friday, March 20 11:45–12:45

Room 1 (Phoenix Hall)

Chair: Hitoshi Komatuzawa (Hiroshima University)

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LS1

From Oral Pathogens to Brain Protection: Gingipain Inhibition by a Ceramic Powder with Unique Physicochemical Properties

○Giuseppe Pezzotti¹, ○Takuya Sakuragi² (¹Biomedical Engineering Center, Kansai Medical University, ²Technology and Innovation Center, YKK Corporation)

LS2

Friday, March 20 11:45–12:45

Room 3 (Dahlia 1)

Chair: Miki Kawada-Matsuo (Hiroshima University)

Sponsored by Daiichi Sankyo Healthcare Co., Ltd.

LS2

Oral Microbiome: Impact on Oral and Systemic Health and Importance of Oral Care

○Toru Takeshita (Section of Preventive and Public Health Dentistry, Faculty of Dental Science, Kyushu University)

LS3

Saturday, March 21 11:30–12:30

Room 2 (Himawari)

Chair: Hitoshi Komatuzawa (Hiroshima University)

Sponsored by L8020 Council

LS3

Innovation from the Dental Field: The Case of Lactocaseibacillus rhamnosus L8020 and Etak

○Hiroki Nikawa (Department of Oral Biology & Engineering, Graduate School of Biomedical and Health Sciences, Hiroshima University)

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