

■ 18 (Fri) May 2018

- **Registration**
08:00-17:50 (Lobby, 1st Floor)
- **AOM Board Meeting (Kansenken-Daini room, 1st Floor)**
12:00-13:00
- **AOM General Meeting (Kyouyou-Daiichi room, 2nd Floor)**
13:00-13:30
- **Congress Dinner**
19:00-21:00

■ 19 (Sat) May 2018

- **Registration**
08:30-17:00 (Lobby, 1st Floor)
- **JSM Board Meeting (Kansenken-Daini room, 1st Floor)**
12:20-13:20
- **JSM General Meeting (Kyouyou-Daiichi room, 2nd Floor)**
14:10-15:40
- **Photo Session**
17:50-18:10

■ 20 (Sun) May 2018

- **Registration**
08:30-11:00 (Lobby, 1st Floor)
- **Congress Social Program**
12:00-19:00

■ 18 (Fri) May 2018

Kyouyou-Daiichi room, 2nd Floor

➤ Registration 8:00-17:50

Opening Remarks

8:50-9:00

Shigeru Kamiya (Kyorin University, Japan)

Tsuyoshi Kenri (National Institute of Infectious Diseases, Japan)

Free Paper 1

9:00-10:00

Chairpersons: Kazuhiro Matsuda (Mycoplasma Infectious Diseases Research Center,
M Bio Technology Inc., Japan)

Hiroshi Yoshida (Himeno Hospital, Japan)

Speakers:

F1-1 The preliminary formation mechanism of *Mycoplasma pneumoniae* biofilm and its effect on antibiotics sensitivity

Chunyan Chen, Jihong Hu, Lan Yu, Liesong Chen, Yihua Zeng, Xiaoxing You, Cuiming Zhu (Institution of Pathogenic Biology, Medical College, University of South China; Hunan Provincial Key Laboratory for Special Pathogens Prevention and Control; Hunan Province Cooperative Innovation Center for Molecular Target New Drug Study, China)

F1-2 Impact of point of care molecular testing for *Mycoplasma pneumoniae* pneumonia

Yusaku Akashi¹, Daisuke Hayashi², Hiromichi Suzuki¹, Masanari Shiigai³, Koji Kanemoto⁴, Shigeyuki Notake⁵, Takumi Ishiodori², Hiroichi Ishikawa⁴, Hironori Imai²
(¹Division of Infectious Diseases, Department of Medicine, ²Department of Pediatrics, ³Department of Radiology, ⁴Department of Respiratory medicine, ⁵Department of Clinical Laboratory, Tsukuba Medical Center Hospital, Japan)

F1-3 *Mycoplasma pneumoniae* spread in the setting of a constant epidemic in a single urban area

Gal Almogy¹, Ayelet Michael Gayego², Lewi Stone³, Sharon Amit¹, Allon E Moses², Ran Nir-Paz²
(¹School of Mathematical and Geospatial Sciences, RMIT University, Australia, and eDas Health care, Israel, ²Department of Clinical Microbiology and Infectious Diseases, Hadassah-Hebrew University Medical Center, Israel, ³School of Mathematical and Geospatial Sciences, RMIT University, Australia and Department of Zoology, Faculty of Life Sciences, Tel Aviv University, Israel)

F1-4 Chemosynthetic homologues of *Mycoplasma pneumoniae* β -glycolipid antigens for the diagnosis of mycoplasma infectious diseases

Kazuo Fukuda¹, Hirofumi Dohi¹, Sachie Matsuda², Kazuhiro Matsuda², Yoshihiro Nishida¹
(¹Molecular Chirality Research Center, Graduate School of Advanced Integration Science, Chiba University, Japan, ²Mycoplasma Infectious Diseases Research Center, M. Bio Technology Inc., Japan)

F1-5 *Mycoplasma pneumoniae* and *Mycoplasma fermentans*-associated psychomotor deterioration, movement disorders without respiratory symptom: Case report

Kazuhiro Matsuda¹, Sachie Matsuda¹, Yoshihiro Nishida², Yuichiro Wasaki³, Kunimi Kitada⁴, Mizuho Hosogi⁴, Tooru Araki⁴
(¹Mycoplasma Infectious Diseases Research Center, M Bio Technology Inc., Japan, ²Molecular Chirality

Research Center, Chiba University, Japan, ³Internal Medicine, Kudamatsu-Misato Heartclinic, Japan, ⁴Department of Pediatrics, National Hospital Organization Fukuyama Medical Center, Japan)

*** Break (10:00-10:20)**

Symposium 1

10:20-11:50

Basic researches for *Mycoplasma pneumoniae*

Chairpersons: Hongmei Sun (Capital Institute of Pediatrics, China)

Koichi Kuwano (Kurume University, Japan)

Speakers:

S1-1 Genetic characterization of *Mycoplasma pneumoniae* in Japan

Tsuyoshi Kenri¹, Hiroyuki Fujii², Toru Hashimoto², Tsutomu Yamazaki³, Hitomi Ohya⁴, Toshiro Kuroki⁴, Chihiro Katsukawa⁵, Kazuo Takahashi⁶, Keigo Shibayama¹
(¹Department of Bacteriology II, NIID, Japan, ²Kurashiki Central Hospital, Japan, ³Wakaba Children's Hospital, Japan, ⁴Kanagawa Prefectural Institute of Public Health, Japan, ⁵Osaka Institute of Public Health, Japan, ⁶International University of Health and Welfare, Japan)

S1-2 *In vivo* and *in vitro* immune responses stimulated by *Mycoplasma pneumoniae*

Satoshi Kurata¹, Shigeru Kamiya^{1,2}
(¹Department of Infectious Diseases, Kyorin University School of Medicine, Japan, ²Faculty of Health Sciences, Kyorin University, Japan)

S1-3 Characteristics of drug resistance of *Mycoplasma pneumoniae* isolates

Miyuki Morozumi
(Department of Infectious Diseases, Keio University School of Medicine, Japan)

S1-4 Molecular characterization of *Mycoplasma pneumoniae* from children across China

Chao Yan, Guanhua Xue, Hanqing Zhao, Shaoli Li, Yanling Feng, Shanshan Ni, Hongmei Sun
(Department of Bacteriology, Capital Institute of Pediatrics, China)

S1-5 The detection of *Mycoplasma pneumoniae* with a wireless biosensor based aptamer

Xilin Xiao, Yanhua Zeng, Xiaoxin You, Bo He, Lifu Liao, Cuiming Zhu, Yimou Wu
(Institute of Pathogenic Biology, University of South China, China)

*** Break (11:50-12:00)**

Luncheon Seminar 1

12:00-13:00

“The role of *Mycoplasma pneumoniae* infection in the initial onset and exacerbations of asthma”

Sponsor: Asahi Kasei Pharma Corporation

Chairperson: Koichi Izumikawa (Nagasaki University, Japan)

Speaker: Hidehiro Watanabe (Tokyo Medical University, Japan)

AOM General Meeting

13:00-13:30

* Break (13:30-13:40)

Special Lecture 1

13:40-14:20

“New exploration and future design of *Mycoplasma hyopneumoniae* vaccines”

Chairperson: Shigeru Kamiya (Kyorin University, Japan)

Speaker: Guoqing Shao (Jiangsu Academy of Agricultural Sciences, China)

Educational Lecture 1

14:20-15:00

“*Mycoplasma* testing for cell-based medicinal products”

Chairperson: Deli Xin (Capital Medical University, China)

Speaker: Tsuguo Sasaki (Musashino University, Japan)

* Break (15:00-15:10)

Poster Session

Kyouyou-Daini room, 2nd Floor

15:10-16:20

P-1 Establishment and comparison of air-liquid interface culture systems for primary and immortalized swine tracheal epithelial cells

Haiyan Wang¹, Lina He¹, Beibei Liu¹, Yanyan Feng², Hao Zhou¹, Zhenzhen Zhang¹, Yuze Wu¹, Jia Wang¹, Yuan Gan¹, Ting Yuan¹, Meng Wu¹, Xing Xie¹, Guoqing Shao¹, Zhixin Feng¹
(¹Institute of Veterinary Medicine, Jiangsu Academy of Agricultural Sciences, Key Laboratory of Veterinary Biological Engineering and Technology, Ministry of Agriculture, China, ²College of Veterinary Medicine, Nanjing Agricultural University, China)

P-2 Evaluation of the simultaneous amplification and testing for *Mycoplasma pneumoniae* in bronchoalveolar lavage fluid

Shuxiang Lin, Baicheng Ma, Wei Wang, Wei Guo, Yongsheng Xu
(Pediatric Research Institute, Tianjin Children's Hospital, China)

P-3 Length of cytoskeletal core acts as a speedometer in the gliding motility of *Mycoplasma pneumoniae*

K. Murata¹, D. Nakane¹, T. Kenri², K. Shibayama², T. Nishizaka¹
(¹Department of Physics, Gakushuin University, Japan, ²Department of Bacteriology II, National Institute of Infectious Diseases, Japan)

- P-4 The changes of cytokines in human airway epithelial cells by HapE of *Mycoplasma pneumoniae***
Shaoli Li, Hongmei Sun, Guanhua Xue, Chao Yan, Hanqing Zhao, Yanling Feng
(Department of Bacteriology, Capital Institute of Pediatrics, China)
- P-5 *In vitro* susceptibility test of antibiotics and Xiaer Feire Kechuan Oral Liquid to *Mycoplasma pneumoniae***
Ran Wei, Hai-wei Dou, Liang-yu Wang, De-li Xin
(Beijing Tropical Medicine Research Institute, Beijing Friendship Hospital, Capital Medical University, China)
- P-6 Discrimination between wild-type and macrolide-resistant *Mycoplasma pneumoniae* by matrix-assisted laser desorption/ionization time-of-flight mass spectrometry**
Jingyi Li, Yi Wang, Yue Jang, Adong Shen, Deli Xin
(Beijing Key Laboratory for Research on Prevention and Treatment of Tropical Diseases, Beijing Tropical Medicine Research Institute, Beijing Friendship Hospital, Capital Medical University, China)
- P-7 Development of a highly sensitive allele-specific real time PCR for the detection of *Mycoplasma pneumoniae* with 23SrRNA drug resistance mutations**
Dongxing Guo¹, Wenjuan Hu¹, Baoping Xu¹, Ran Wei¹, Jingyi Li¹, Dan Li¹, Xiujun Tian¹, Shaogang Li¹, Zhaoyong Wu¹, Deli Xin¹, Kunling Shen²
(¹Beijing Tropical Medicine Research Institute, Beijing Friendship Hospital, Capital Medical University, China, ²Department of Pediatric, Affiliated to the Capital University of Medical Sciences, Beijing Children's Hospital, China)
- P-8 Detection of *Mycoplasma pneumoniae* in nasopharyngeal swab samples collected from children with acute respiratory infections by fluorescence loop-mediated isothermal amplification**
Dan Li, Jingyi Li, Dongxing Guo, De-li Xin
(Beijing Tropical Medicine Research Institute, Beijing Friendship Hospital, Capital Medical University, China)
- P-9 Changes in levels of cellular cytokines in children with severe *Mycoplasma pneumoniae* pneumonia**
Hailan Yao¹, Lin Lu², Chunmei Zhu², Zhewei Liu¹, Hongmei Sun³, Jianxin Wu¹
(¹Department of Biochemistry & Immunology, Capital Institute of Pediatrics, China, ²Department of Respiration, Capital Institute of Pediatrics, China, ³Department of Bacteriology, Capital Institute of Pediatrics, China)
- P-10 Co-infection of *Mycoplasma pneumoniae* pneumonia in hospitalized children, in Beijing**
Chao Yan, Hongmei Sun, Hanqing Zhao, Yanling Feng, Guanhua Xue, Shaoli Li, Shanshan Ni
(Department of Bacteriology, Capital Institute of Pediatrics, China)
- P-11 The clinical characteristics of *Mycoplasma pneumoniae* pneumonia in children in Beijing, China**
Chao Yan¹, Hongmei Sun¹, Hanqing Zhao¹, Yanling Feng¹, Guanhua Xue¹, Shaoli Li¹, Shanshan Ni¹, Jianxin Wu²
(¹Department of Bacteriology, Capital Institute of Pediatrics, China, ²Department of Biochemistry & Immunology, Capital Institute of Pediatrics, Beijing, China)
- P-12 The clinical features, treatment of drug resistant *Mycoplasma pneumoniae* pneumonia in children**
Dawei Shi, Liangyu Wang, Xiaopei Dong, Yanqing Dong, Zhonghao Zhang, Lan Ma, Yue Jiang, Deli Xin
(Department of Pediatrics, Beijing Friendship Hospital Affiliated to Capital Medical University, China)

- P-13 Adjunctive corticosteroid therapy for inpatients with *Mycoplasma pneumoniae* pneumonia**
Masato Tashiro^{1,2}, Kiyohide Fushimi³, Kei Kawano², Takahiro Takazono^{1,4}, Tomomi Saijo⁴, Kazuko Yamamoto⁴, Shintaro Kurihara², Yoshifumi Imamura⁴, Taiga Miyazaki^{1,4}, Katsunori Yanagihara⁵, Hiroshi Mukae⁴, Koichi Izumikawa^{1,2}
(¹Department of Infectious Diseases, Nagasaki University Graduate School of Biomedical Sciences, Japan, ²Nagasaki University Infection Control and Education Centre, Nagasaki University Hospital, Japan, ³Department of Health Policy and Informatics, Graduate School of Medicine, Tokyo Medical and Dental University, Japan, ⁴Second Department of Internal Medicine, Nagasaki University Hospital, Japan, ⁵Department of Laboratory Medicine, Nagasaki University Hospital, Japan)
- P-14 The molecular epidemiology of respiratory pathogens associated with asthma attacks: a single-center observational study in Japan**
Takeshi Saraya¹, Hirokazu Kimura², Daisuke Kurai¹, Haruyuki Ishii¹, Hajime Takizawa¹
(¹Kyorin University School of Medicine, Department of Respiratory Medicine, Japan, ²Infectious Disease Surveillance Center, National Institute of Infectious Diseases, Japan)
- P-15 Functional analysis of the ferritin-like protein from *Mycoplasma penetrans***
Ranhui Li, Xiaoxing You
(Institute of Pathogenic Biology, Medical College, University of South China, China; Hunan Provincial Key Laboratory for Special Pathogens Prevention and Control, Hunan Province Cooperative Innovation Center for Molecular Target New Drug Study, China)
- P-16 Gliding behavior analyses of *Mycoplasma gallisepticum*, Pneumoniae-type gliding mechanism**
Masaki Mizutani^{1,2}, Makoto Miyata^{1,2}
(¹Graduate School of Science, Osaka City University, Japan, ²The OCU Advanced Research Institute for Natural Science and Technology, Osaka City University, Japan)
- P-17 Elongation factor thermo unstable (EF-Tu) moonlights as an adhesion on the surface of *Mycoplasma hyopneumoniae* by binding fibronectin**
Yanfei Yu, Hongen Wang, Yixi Chen, Qiyang Xiong, Zhixin Feng, Meng Wu, Beibei Liu, Jia Wang, Rong Chen, Xing Xie, Maojun Liu, Guoqing Shao
(Institute of Veterinary Medicine, Jiangsu Academy of Agricultural Sciences, China)
- P-18 *Mycoplasma hyopneumoniae* infection promotes the secretion of IL-1 β through an autophagosomal carrier regulated by Hsp90/Sec22b**
Zhenzhen Zhang, Yanna Wei, Beibei Liu, Yuzi Wu, Haiyan Wang, Xing Xie, Zhixin Feng, Guoqing Shao, Qiyang Xiong
(Institute of Veterinary Medicine, Jiangsu Academy of Agricultural Sciences, China)
- P-19 Crystal structure of leucine aminopeptidase of *Mycoplasma hyopneumoniae* reveals its features as a multifunctional adhesin**
Rong Chen¹, Yanfei Yu¹, Xing Xie¹, MaoDa Pang², Meng Wu¹, ZhiXin Feng¹, QiYan Xiong¹, Wei Zhang³, WeiWu Wang⁴, GuoQing Shao¹
(¹Institute of Veterinary Medicine, Jiangsu Academy of Agricultural Sciences, China, ²Institute of Food Safety and Nutrition, Jiangsu Academy of Agricultural Sciences, China, ³College of Veterinary Medicine, Nanjing Agricultural University, China, ⁴College of Life Sciences, Nanjing Agricultural University, China)
- P-20 Field application of a sIgA-ELISA method for differentiation of *Mycoplasma hyopneumoniae* infected from vaccinated pigs**
Yun Bai¹, Yuan Gan¹, Li-Zhong Hua¹, Heiko Nathues², Hao Yang³, Yan-Na Wei¹, Meng Wu¹, Guo-Qing Shao¹, Zhi-Xin Feng
(¹Institute of Veterinary Medicine, Jiangsu Academy of Agricultural Sciences, Key Laboratory of Veterinary Biological Engineering and Technology, Ministry of Agriculture, China, ²Clinic for Swine,

Department of Clinical Veterinary Medicine, Vetsuisse Faculty, University of Bern, Switzerland, ³Nanjing Zhou Bang Bio-tech Co. Ltd, China)

P-21 Bovine endocarditis caused by *Mycoplasma bovis*

Takuya Kanda^{1,2}, Mathurot Suwanruengsr¹, Eddy Sukmawinata¹, Ryoko Uemura³, Ryoji Yamaguchi^{1,3}, Masuo Sueyoshi^{1,3,4}

(¹Graduate School of Medicine and Veterinary Medicine, University of Miyazaki, Japan, ²Shibushi Meat Inspection Center, Kagoshima Prefectural Government, Japan, ³Department of Veterinary Sciences, Faculty of Agriculture, University of Miyazaki, Japan, ⁴Center for Animal Disease Control, University of Miyazaki, Japan)

P-22 Identification of the potential receptor of *Mycoplasma genitalium* protein of adhesion

Xiangying Deng, Pei Dai, Liesong Chen, Cuiming Zhu, Xiaoxing You, Lingling Li, Dan Luo, Yanhua Zeng

(Institute of Pathogenic Biology, Medical College, University of South China; Hunan Provincial Key Laboratory for Special Pathogens Prevention and Control; Hunan Province Cooperative Innovation Center for Molecular Target New Drug Study, China)

P-23 Type II restriction modification system in *Ureaplasma parvum* OMC-P162 strain

Heng Ning Wu, Yukiko Nakura, Michinobu Yoshimura, Itaru Yanagihara

(Department of Developmental Medicine, Research Institute, Osaka Women's and Children's Hospital, Japan)

P-24 Increase in prevalence of *Ureaplasma* spp. in patients with genital tract infections in a tertiary care hospital of North India

Dhawan B¹, Arif N¹, Rawre J¹, Khanna N²

(¹Department of Microbiology, ²Department of Dermatology and Venereology, All India Institute of Medical Sciences, India)

P-25 A case of oropharyngeal *Ureaplasma urealyticum* infection in a human immunodeficiency virus positive bisexual male co-infected with human papilloma virus and *Treponema pallidum*

Dhawan B¹, Arif N¹, Deepika Yadav², Neena Khanna²

(¹Department of Microbiology, ²Department of Dermatology and Venereology, All India Institute of Medical Sciences, India)

P-26 Genetic relatedness among *Mycoplasma* and *Ureaplasma* of the cervical microbiome of female students and infertility patients

Ezeanya C. Chinyere¹, Agbakoba R. Nneka², Enweani B. Ifeoma²

(¹Department of Medical Microbiology, Edo University Iyamho, Nigeria, ²Department of Medical Laboratory Science, Nnamdi Azikiwe University, Nigeria)

P-27 Study of the molecular mechanism about 3T6 cells infected by *Spiroplasma eriocheiris* based on mRNA & microRNA microarray

Wei Gu, Qingguo Meng, Wen Wang

(Key Laboratory for Aquatic Crustacean Diseases, College of Life Sciences, China; College of Life Sciences, Nanjing Normal University, China)

P-28 Effect of MreB depolymerization on helicity-switching swimming motility in crustacean pathogen, *Spiroplasma eriocheiris*

Yuya Sasajima¹, Isil Tulum^{1,2}, Makoto Miyata^{1,2}

(¹Graduate School of Science, Osaka City University, Japan, ²OCARINA, Osaka City University, Japan)

P-29 A pathogenic bacteria, *Spiroplasma eriocheiris*, is driven by the internal structure including four bacterial actins

Peng Liu^{1,2}, Masaki Mizutani³, Hirofumi Wada⁴, Bertin Clothilde³, Makoto Miyata³, Wen Wang²

(¹Institute of Pathogenic Biology, University of South China, China, ²College of Life Sciences, Nanjing

Normal University, China, ³Graduate School of Science, Osaka City University, Japan, ⁴Department of Physics, Ritsumeikan University, Japan)

P-30 First characterization of transcription start sites of phytoplasma

Kensaku Maejima¹, Takamichi Nijo¹, Yuji Fujimoto¹, Naoi Hosoe¹, Yutaro Neriya¹, Hiroaki Koinuma¹, Nozomu Iwabuchi¹, Yugo Kitazawa¹, Yukari Okano¹, Yasuyuki Yamaji¹, Kenro Oshima², Shigetou Namba¹

(¹Department of Agricultural and Environmental Biology, Graduate School of Agricultural and Life Sciences, The University of Tokyo, Japan, ²Department of Clinical Plant Science, Faculty of Bioscience and Applied Chemistry, Hosei University, Japan)

P-31 Characterization of a secreted protein POSE4 from poinsettia branch-inducing phytoplasma

Ai Ito¹, Kensaku Maejima², Kenro Oshima¹

(¹Faculty of Bioscience, Hosei University, Japan, ²Department of Agricultural and Environmental Biology, Graduate School of Agricultural and Life Sciences, The University of Tokyo, Japan)

P-32 Phylogen induces phyllody symptoms in diverse plant species through degradation of their floral MADS domain transcription factors

Nozomu Iwabuchi¹, Yugo Kitazawa¹, Yuji Fujimoto¹, Naoi Hosoe¹, Hiroaki Koinuma¹, Takamichi Nijo¹, Tetsuya Yoshida¹, Yukari Okano¹, Kensaku Maejima¹, Yasuyuki Yamaji¹, Kenro Oshima², Shigetou Namba¹

(¹Graduate School of Agricultural and Life Sciences, The University of Tokyo, Japan, ²Faculty of Bioscience, Hosei University, Tokyo, Japan)

P-33 Identification of a new phytoplasma from diseased coconut and banana in Papua New Guinea

Akio Miyazaki, Toshiro Shigaki, Naoi Hosoe, Yuji Fujimoto, Hiroaki Koinuma, Nozomu Iwabuchi, Kiyoto Watanabe, Takamichi Nijo, Kensaku Maejima, Yasuyuki Yamaji, Shigetou Namba

(Graduate School of Agricultural and Life Sciences, The University of Tokyo, Japan)

P-34 Identification of ‘*Candidatus Phytoplasma malaysianum*’ associated with *Elaeocarpus* yellows

Ai Endo¹, Nozomu Iwabuchi², Kensaku Maejima², Norikazu Kameyama³, Masaya Satoh⁴, Shigetou Namba², Kenro Oshima¹

(¹Faculty of Bioscience, Hosei University, Japan, ²Department of Agricultural and Environmental Biology, Graduate School of Agricultural and Life Sciences, The University of Tokyo, Japan, ³Faculty of Agriculture, University of the Ryukyus, Japan, ⁴Institute of Socio
Tokushima, Japan) -/

Symposium 2

Kyouyou-Daiichi room, 2nd Floor

16:20-17:50

Bioscience of Mollicutes

Chairpersons: Wen Wang (Nanjing Normal University, China)

Chih-Horng Kuo (Institute of Plant and Microbial Biology, Academia Sinica, Taiwan)

Makoto Miyata (Osaka City University, Japan)

Speakers:

S2-1 Genomic structure of phytoplasma and its pathogenesis

Kenro Oshima

(Department of Clinical Plant Science, Faculty of Bioscience and Applied Chemistry, Hosei University, Japan)

S2-2 Gliding motility of *Mycoplasma* developed from ATP synthase

Makoto Miyata

(Graduate School of Science, Osaka City University, The OCU Advanced Research Institute for Natural Science and Technology, Japan)

S2-3 Molecular speedometer for gliding motility of *Mycoplasma pneumoniae*

Daisuke Nakane¹, Kohki Murata¹, Tsuyoshi Kenri², Keigo Shibayama², Takayuki Nishizaka¹

(¹Department of Physics, Gakushuin University, Japan, ²Department of Bacteriology II, National Institute of Infectious Diseases, Japan)

S2-4 Virulence factors of phytoplasmas alteration plant architecture and phase transition

Shu Heng Chang¹, Chih-Tang Wu¹, Choon Meng Tan¹, Tzu-Hsiang Lin¹, Shin-Ying Jiang¹, Ren-Ci Liu¹, Ming-Chen Tsai¹, Li-Wen Su¹, Jun-Yi Yang^{1,2}

(¹Institute of Biochemistry, National Chung Hsing University, Taiwan, ²Graduate Institute of Biotechnology, National Chung Hsing University, Taiwan)

S2-5 Study on the neurotropic infection character of *Spiroplasma eriocheiris*

Wen Wang

(Jiangsu Key Laboratory for Aquatic Crustacean Diseases, China / College of Life Sciences, Nanjing Normal University, China)

Congress Dinner

RIHGA ROYAL HOTEL TOKYO

19:00-21:00

■ **19 (Sat) May 2018**

Kyoyou-Daiichi room, 2nd Floor

➤ **Registration 8:30-17:00**

Free Paper 2

9:00-10:00

Chairpersons: Haruhiko Taguchi (Kyorin University, Japan)
Kazunobu Ouchi (Kawasaki Medical School, Japan)

Speakers:

F2-1 Epidemiology and drug resistance mechanism of *Mycoplasma pneumoniae* in Beijing in 2014

Wenjuan Hu⁴, Ran Wei¹, Dongxing Guo¹, Hong Wang⁴, Baoping Xu², Wei Zhou⁵, Shaojie Ma⁴, Hui Huang⁴, Xuanguang Qin⁶, Yue Jiang⁶, Xiaopei Dong⁶, Xiaoyan Fu⁶, Dawei Shi³, Liangyu Wang¹, Haiwei Dou¹, Adong Shen², Deli Xin¹
(¹Beijing Tropical Medicine Research Institute, Beijing Friendship Hospital, Capital Medical University, China, ²Affiliated to the Capital University of Medical Sciences, Beijing Children's Hospital, China, ³Department of Pediatrics, Beijing Friendship Hospital Affiliated to Capital Medical University, China, ⁴Department of Pediatric, Civil Aviation General Hospital, China, ⁵Department of Pediatric, Peking University Third Hospital, China, ⁶Department of Pediatric, Affiliated to the Capital University of Medical Sciences, Beijing Chaoyang Hospital, China)

F2-2 Clinical value of laboratory diagnosis of *Mycoplasma pneumoniae* infection assessment

Liangyu Wang^{1,2}, Xiaohua Han³, Ran Wei^{1,2}, Li'na Han³, Haiwei Dou^{1,2}, Dongxing Guo^{1,2}, Jingyi Li^{1,2}, Zhaoyong Wu^{1,2}, Dan Li^{1,2}, Xiujun Tian^{1,2}, Shaogang Li^{1,2}, Deli Xin^{1,2}, Kunling Shen⁴
(¹Beijing Friendship Hospital, Capital Medical University; Beijing Key Laboratory for Research on Prevention and Treatment of Tropical Diseases, China, ²Beijing Tropical Medicine Research Institute China, ³Shengjing Hospital of China Medical University Pediatrics, China, ⁴Beijing children's hospital, Capital Medical University, China)

F2-3 Role of immunoglobulin a in *Mycoplasma pneumoniae* upper respiratory tract carriage

Ruben C.A. de Groot¹, Patrick M. Meyer Sauter^{1,2}, Lilly M. Verhagen³, Aditya Perkasa¹, Emiel B.M. Spuesens⁴, Silvia E. Estevao¹, Theo Hoogenboezem¹, Annemarie M.C. van Rossum¹, Wendy W. J. Unger¹
(¹Erasmus MC – Sophia Children's Hospital, Department of Pediatric Infectious Disease, Rotterdam, The Netherlands, ²University Children's Hospital of Zurich, Division of Infectious Diseases and Hospital Epidemiology and Children's Research Center, Zurich, Switzerland, ³Utrecht University Medical Center – Wilhelmina Children's Hospital, Department of Pediatrics, Utrecht, The Netherlands, ⁴Van Weel-Bethesda Hospital, Department of Pediatrics, Dirksland, The Netherlands)

F2-4 Inducible CRISPRi in the minimal mycoplasma

Shigeyuki Kakizawa^{1,2}, Jonathan Hsu^{1,3}, Kazuki Tanaka^{1,4,5}, Lijie Sun¹, Philip D. Weyman¹, Kim S. Wise¹, Chuck Merryman¹, Gavin Tse^{1,3}, Adam J. Moore^{1,3}, Clyde A. Hutchison III¹, Hamilton O. Smith¹, Masaru Tomita⁴, J. Craig Venter¹, John I. Glass¹, Yo Suzuki¹
(¹Synthetic Biology Group, J. Craig Venter Institute, USA, ²National Institute of Advanced Industrial Science and Technology, Japan, ³Department of Bioengineering, University of California, USA, ⁴Institute for Advanced Biosciences, Keio University, Japan, ⁵Faculty of Environment and Information Studies, Keio University, Japan)

F2-5 Activation of NLRP3 inflammasome in macrophages by mycoplasmal lipoproteins and Lipopeptides

Ayumi Saeki, Akira Hasebe, Ken-ichiro Shibata

(Department of Oral Molecular Microbiology, Faculty of Dental Medicine and Graduate School of Dental Medicine, Hokkaido University, Japan)

*** Break (10:00-10:20)**

Educational Lecture 2

10:20-11:00

“Genomic characterization of insect- and plant-associated mollicutes”

Chairperson: Satoshi Iwata (National Cancer Research Center, Japan)

Speaker: Chih-Horng Kuo (Institute of Plant and Microbial Biology, Academia Sinica, Taiwan)

*** Break (11:00-11:10)**

Symposium 3

11:10-12:10

Ureaplasma and its related microorganisms

Chairpersons: Hongmei Sun (Capital Institute of Pediatrics, China)

Itaru Yanagihara (Osaka Women's and Children's Hospital, Japan)

Speakers:

S3-1 Association study about *Ureaplasma urealyticum* colonization and infertility among females of childbearing age

Lusi Chen, Kaiping Huang, Bei Wang

(Department of Epidemiology and Health statistics, Key Laboratory of Environmental Medicine Engineering, Ministry of Education, School of Public Health, Southeast University, China)

S3-2 Pathogenesis of *Ureaplasma* infection in perinatal and neonatal medicine

Michinobu Yoshimura, Fumiko Nishiumi, Heng Ning Wu, Yukiko Nakura, Itaru Yanagihara

(Department of Developmental Medicine, Research Institute, Osaka Women's and Children's Hospital, Japan)

S3-3 Antimicrobial resistance of *Mycoplasma genitalium* strains isolated in Japan

Ryoichi Hamasuna¹, Masahiro Matsumoto², Naohiro Fujimoto²

(¹Department of Urology, Shin-Kokura Hospital, Japan, ²Department of Urology, University of Occupational and environmental Health, Japan)

*** Break (12:10-12:20)**

Luncheon Seminar 2

12:20-13:20

“Antimicrobial therapy and *Clostridioides difficile* infection”

Sponsor: Miyarisan Pharmaceutical Co., Ltd.

Chairperson: Haruhiko Taguchi (Kyorin University, Japan)

Speaker: Takako Osaki (Kyorin University, Japan)

*** Break (13:20-13:30)**

Special Lecture 2

13:30-14:10

“Molecular biological properties of the phytoplasmas, plant pathogenic bacteria”

Chairperson: Jiuqing Xin (Harbin Veterinary Research Institute, China)

Speaker: Shigetou Namba (The University of Tokyo, Japan)

JSM General Meeting

14:10-15:40

- 1) Business matters
- 2) Proposal presentation for IOM 2022 in Osaka
(Makoto Miyata, Osaka City University, Japan)
- 3) Kitamoto Award Lecture

“Molecular characterization of phytoplasma by genomic research”

Chairperson: Koichi Kuwano (Kurume University, Japan)

Speaker: Kenro Oshima (Hosei University, Japan)

*** Break (15:40-15:50)**

Symposium 4

15:50-17:50

Clinical aspects of *Mycoplasma pneumoniae* pneumonia

Chairpersons: Mitsuo Narita (Sapporo Tokushu-kai Hospital, Japan)

Rama Chaudhy (All India Institute of Medical Science, India)

Speakers:

- S4-1** **Epidemiology of *Mycoplasma pneumoniae* pneumonia with special reference to the emergence of macrolide-resistance in Japan - Possible reasons for the initial increase and the following decrease of macrolide-resistance of *M. pneumoniae* in Japan -**

Mitsuo Narita
(Sapporo Tokushu-kai Hospital, Japan)

- S4-2** **The epidemical features of *Mycoplasma pneumoniae* infection among children throughout Japan in recent 10 years**

Tomohiro Oishi, Yuhei Tanaka, Takaaki Tanaka, Ippei Miyata, Kazunobu Ouchi
(Department of Pediatrics, Kawasaki Medical School, Japan)

- S4-3** **Relationships among clinical features, HRCT findings, and a visual scoring system in patients with *Mycoplasma pneumoniae* pneumonia**

Takeshi Saraya
(Department of Respiratory Medicine, Kyorin University School of Medicine, Japan)

- S4-4** **Clinical spectrum of *Mycoplasma pneumoniae* in Indian patients**

Rama Chaudhy
(Department of Microbiology, All India Institute of Medical Sciences, India)

- S4-5** **Major types of *Mycoplasma pneumoniae*: A meta-analysis of its subtypes in China**

Lusi Chen, Min Xu, Bei Wang
(Department of Epidemiology and Health statistics, Key Laboratory of Environmental Medicine Engineering, Ministry of Education, School of Public Health, Southeast University, China)

*** Photo Session (17:50-18:10)**

■ 20 (Sun) May 2018

Kyoyou-Daiichi room, 2nd Floor

➤ Registration 8:30-11:00

Free Paper 3

9:00-10:00

Chairpersons: Ken-ichiro Shibata (Hokkaido University, Japan)
Hirosi Tanaka (Idaimae Minami Yojo Clinic, Japan)

Speakers:

F3-1 TLR2/MyD88/NF- κ B signaling pathway regulates IL-1 β production in DF-1 cells exposed to *Mycoplasma gallisepticum* LAMPs

Ying Yu¹, Ying Chen^{1,2}, Yang Wang³, Yuan Li¹, Lin Zhang¹, Jiuqing Xin¹

(¹State Key Laboratory of Veterinary Biotechnology, Harbin Veterinary Research Institute, Chinese Academy of Agricultural Sciences, China, ²College of Veterinary Medicine, Northeast Agricultural University, China, ³Key Laboratory of Fermentation Engineering (Ministry of Education), Hubei Provincial Cooperative Innovation Center of Industrial Fermentation, College of Bioengineering, Hubei University of Technology, China)

F3-2 Gliding machinery of *Mycoplasma mobile* visualized by high-speed atomic force microscopy

Kohei Kobayashi¹, Noriyuki Kodera², Yuhei O Tahara^{1,3}, Takuma Toyonaga¹, Taishi Kasai¹, Toshio Ando², Makoto Miyata^{1,3}

(¹Department of Biology, Osaka City University, Japan, ²Department of Physics, Kanazawa University, Japan, ³OCARINA, Osaka City University, Japan)

F3-3 The protein phosphorylation regulation in pathogenesis of tremor disease of *Eriochair sinensis* caused by *Spiroplasma eriocheiris*

Libo Hou, Qingguo Meng, Wen Wang

(Key Laboratory for Aquatic Crustacean Diseases, College of Life Sciences / College of Life Sciences, Nanjing Normal University, China)

F3-4 Structural and functional analyses of five MreB proteins involved in the swimming motility of *Spiroplasma eriocheiris*

Daichi Takahashi¹, Aya Kodama¹, Katsumi Imada², Makoto Miyata^{1,3}

(¹Department of Biology, Faculty of Science, ²Department of Macromolecule, Faculty of Science, ³OCARINA, Osaka city University, Japan)

F3-5 Identification and comparative analysis of the non-coding RNA of *Spiroplasma eriocheiris* in different phases using a deep sequencing and combining bioinformatic approach

Mingxiao Ning^{1,2}, Jiangtao Ou¹, Qingguo Meng^{1,2}, Wen Wang^{1,2}

(¹Key Laboratory for Aquatic Crustacean Diseases, College of Life Sciences, China, ²College of Life Sciences, Nanjing Normal University, China)

* Break (10:00-10:20)

Symposium 5

10:20-11:50

Mycoplasma infections in veterinary fields

Chairpersons: Aizhen Guo (College of Veterinary Medicine, Huazhong Agricultural University, China)
Yoshihiro Muneta (National Agriculture and Food Research Organization, Japan)

Speakers:

S5-1 MbovGdpP, a novel c-di-NMP metabolism gene discovered in *M. bovis*

Xifang Zhu¹⁻⁴, Yaqi Dong¹, Eric Baranowski⁵, Yingyu Chen¹, Changmin Hu¹, Jianguo Chen¹, Huanchun Chen¹⁻⁴, Christine Citti⁵, Aizhen Guo¹⁻⁴

(¹The State Key Laboratory of Agricultural Microbiology, College of Veterinary Medicine, Huazhong Agricultural University, China, ²Hubei International Scientific and Technological Cooperation Base of Veterinary Epidemiology, International Research Center for Animal Disease, Ministry of Science and Technology of the People's Republic of China, China, ³Key Laboratory of Preventive Veterinary Medicine in Hubei Province, The Cooperative Innovation Center for Sustainable Pig Production, China, ⁴Key Laboratory of Development of Veterinary Diagnostic Products, Ministry of Agriculture of the People's Republic of China, China, ⁵IHAP, Université de Toulouse, INRA, ENVT, Toulouse, France)

S5-2 Animal mycoplasma vaccine development in Taiwan

Jiunn-Horng Lin^{1,2}, Jyh-Perng Wang¹, Zeng Wen Chen¹, Ho-Yuan Chou¹, Chiung-Wen Hsu¹, Ming-Wei Hsieh¹, Ming-Jeng Pan³

(¹Animal Technology Laboratories, Agricultural Technology Research Institute, Taiwan, ²School of Veterinary Medicine, National Taiwan University, Taiwan, ³Graduate Institute of Biotechnology and Biomedical Engineering, College of Health Sciences, Central Taiwan University of Science and Technology, Taiwan)

S5-3 Analysis of immunosuppression mediated by the PD-1/PD-L1 pathway in bovine mycoplasmosis

Shinya Goto¹, Satoru Konnai, Tomohiro Okagawa¹, Naoya Maekawa¹, Yamato Sajiki¹, Satoshi Gondaira², Hidetoshi Higuchi², Masateru Koiwa², Shiro Murata¹, Kazuhiko Ohashi¹
(¹Department of disease control, Graduate School of veterinary medicine, Hokkaido University, Japan, ²School of Veterinary Medicine, Rakuno Gakuen University, Japan)

S5-4 Immune response of *Mycoplasma bovis* in bovine

Satoshi Gondaira¹, Koji Nishi¹, Jumpei Fujiki², Hidetomo Iwano², Hidetoshi Higuchi¹
(¹Animal health, Faculty of Veterinary Medicine, ²Veterinary Biochemistry, Faculty of Veterinary Medicine, Rakuno Gakuen University, Japan)

Congress Social Program

12:00-19:00