

# SESSION PROGRAM



November 21 Monday

**Presentation of Opening Remarks : 9:00-9:15**  
**Free Paper : 9:15-10:00**

Chairpersons: Peter J. Heidt (Primate Research Centre, Netherland)

Speaker:

- 09:15- F-1 Enterococci as probiotics or autoprobiotics in treatment of the gastrointestinal diseases  
A. Suvorov<sup>1</sup>, V. Simanenkov<sup>2</sup>, E. Ermolenko<sup>1</sup>, V. Kolodjieva<sup>1</sup>, A. Tcapieva<sup>1</sup>, N. Zaharova<sup>2</sup>, O. Solovieva<sup>2</sup>  
<sup>1</sup>Institute of Experimental Medicine RAMS,  
<sup>2</sup>Medical Academy of Postgraduate Studies, Russia
- 09:30- F-2 Host/bacteria interaction and influence of beneficial bacteria on mucosal immune responses against opportunistic/enteric pathogens: possible cellular-molecular mechanisms and practical approaches  
Nadiiya Boyko  
Uzhorod National University, Ukraine
- 09:45- F-3 Isolation and Identification of antimicrobial lactic acid bacteria family, partially purified bacteriocin and molecular characterization using 16S rRNA from endemic tropical fruit fermentation of yellow marquisa (passiflora edulis var. flavicarpa) In West Sumatra, Indonesia  
Sumaryati Syuku, Habibi Hidayat  
University of Andalas Padang, Indonesia

**Memorial Lecture - Remembering Prof. Morris Pollard & Prof. Miyakawa Memorial Lecture : 10:00-10:40**

Chairpersons: Shigeru Kamiya (Kyorin University, Japan)

Speaker:

- 10:00- Memorial Lecture - Remembering Prof. Morris Pollard  
Philip Carter  
North Carolina University, USA
- 10:20- Prof. Miyakawa Memorial Lecture  
Shogo Sasaki  
Tokai University, Keio University, Japan

**Coffee Break (10:40-11:00)**

## **Presidential Lecture : 11:00-12:00**

Chairpersons: Shunichi Kato (Tokai University, Japan)  
Shigeru Kamiya (Kyorin University, Japan)

Speaker:

- 11:00- PL-1 Microbial ecology between *Helicobacter pylori* and microbiota in gastric mucosa  
Shigeru Kamiya  
Kyorin University, Japan
- 11:30- PL-2 New Progress in Hematopoietic Stem Cell Transplantation (HSCT)  
Shunichi Kato  
Tokai University, Japan

## **Symposium 1 : 12:00-14:00**

### **New Progress in Hematopoietic Stem Cell Transplantation(HSCT) (Cosponsored by by Kyowa Hakko Kirin CO., Ltd.)**

Chairpersons: Shunichi Kato (Tokai University, Japan)

Speaker:

- 12:00- S1-1 Unrelated Cord Blood Transplantation: comparison after intra-bone and double unit transplantation in patients with hematological malignant disorders. A Eurocord-EBMT analysis  
Vanderson Rocha<sup>1</sup>, Myriam Labopin<sup>2</sup>, Annalisa Ruggeri<sup>1</sup>, Marina Podestà<sup>3</sup>, Dolores Caballero<sup>4</sup>, Francesca Bonifazi<sup>5</sup>, Rovira Montserrat<sup>6</sup>, Andrea Gallamini<sup>7</sup>, Gerard Socie<sup>8</sup>, E Nikiforakis<sup>9</sup>, Mauricette Michalet<sup>10</sup>, E Deconinck<sup>11</sup>, Andrea Bacigalupo<sup>3</sup>, Mohamad Mohty<sup>12</sup>, Eliane Gluckman<sup>1</sup>, Francesco Frassoni<sup>3</sup>
- <sup>1</sup>Clinical Research Unit, Eurocord office, Hôpital Saint Louis APHP, Paris  
<sup>2</sup>Acute Leukemia Working Party, EBMT, Hopital Saint Antoine, Paris  
<sup>3</sup>Dipartimento di Ematologia, Ospedale San Martino, Genova  
<sup>4</sup>Hospital Clinico, Servicio de Hematología, Salamanca  
<sup>5</sup>Institute of Hematology & Medical Oncology L & A Seràgnoli, Bologna University  
<sup>6</sup>Institute of Hematology and Oncology, Hospital Clinic, Barcelona  
<sup>7</sup>Division of Hematology, Az. Ospedaliera S. Croce e Carle, Cuneo  
<sup>8</sup>Service de Greffe de moelle, Hôpital Saint Louis APHP, Paris  
<sup>9</sup>Division of Hematology, BMT Unit, Evangelismos Hospital, Athens  
<sup>10</sup>BMT Unit, Hopital E. Herriot, Lyon  
<sup>11</sup>Service d'Hématologie, Hopital Jean Minjoz, Besancon  
<sup>12</sup>Dept Hematologie, Hotel Dieu, Nantes
- 12:30- S1-2 The current saturation and progress in haploidentical hematopoietic stem cell transplantation  
Xiaojun Huang  
Peking University People's Hospital, China
- 13:00- S1-3 Emerging roles of non-inherited maternal alloantigens (NIMAs) and inherited paternal alloantigens (IPAs) in HLA-mismatched hematopoietic cell transplantation

Tatsuo Ichinohe  
Saga University, Japan

## **Coffee Break (14:00-14:15)**

### **Symposium 2 : 14:15-16:15**

#### **Bacterial Flora**

Chairpersons: Tore Midtvedt (Karolinska, Sweden)  
Kuniyasu Ochiai (Nihon University, Japan)

Speaker:

- 14:15- S2-1 Properties of sialic acid-binding adhesin of *Streptococcus gordonii*, an oral bacterium as a member of dental plaque organisms and etiological agent for infective endocarditis.  
Kiyoshi Konishi, Yukihiko Takahashi  
Nipponon Dental University, Japan
- 14:45- S2-2 Intestinal bacterial microbiota: lessons learned  
Marika Mikelsaar  
University of Tartu, Estonia
- 15:15- S2-3 Molecular ecology of butyrate-producing bacteria from the human gut  
Petra Louis  
University of Aberdeen, UK
- 15:45- S2-4 Control and consequences of fermentation in the human large intestine  
George McFarlane  
University of Dundee, UK

## **Coffee Break (16:15-16:30)**

### **Symposium 3 : 16:30-18:30**

#### **Stem Cell Biology & Transplant Immunology**

**(Cosponsored by Novartis Pharma K.K.)**

Chairpersons: Anders Fasth (University of Gothenburg, Sweden)  
Kiyoshi Ando (Tokai University, Japan)

Speaker:

- 16:30- S3-1 Study of human hematopoietic stem cell aging using immune-deficient mice.  
Kiyoshi Ando  
Tokai University, Japan
- 17:00- S3-2 Human induced pluripotent stem cell-derived blood cells toward clinical application  
Naoya Takayama  
Kyoto University, Japan

- 17:30- S3-3 CMV reactivation and immunereconstitution after CBT  
Satoshi Takahashi  
The University of Tokyo, Japan
- 18:00- S3-4 The Immunobiology of hematopoietic stem cell transplantation  
Anders Fasth  
University of Gothenburg, Sweden





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## **Symposium 4 : 9:00-10:30**

### **Nutrition**

Chairpersons: Philip Carter (North Carolina University, USA)

Shuichi Kimura (Tohoku University, Japan)

Speaker:

- 09:00- S4-1 Microbial metabolic functions in Crohn's disease patients  
Elisabeth Norin  
Karolinska Institute, Sweden
- 09:20- S4-2 Metabolomics characterization of energy metabolism reveals glycogen accumulation in gut-microbiota-lacking mice  
Chi-Chang Huang<sup>2</sup> Hsiao-Li Chuang<sup>1</sup>, Yen-Te Huang<sup>1</sup>, Chia-Chung Hou<sup>2</sup>  
<sup>1</sup>National Applied Research Laboratories, <sup>2</sup>National Taiwan Sport University, Taiwan
- 09:40- S4-3 Microbial ecology and self life of ready-to-eat pomegranate arils packaged under modified atmosphere.  
A. Alexopoulos<sup>1</sup>, E.K. Chatzivassiliou<sup>2</sup>, S. Plessas<sup>1</sup>, M. Alexakoudi<sup>1</sup>,  
I. Theodoridou<sup>1</sup>, M. Fournomiti<sup>1</sup>, I. Mantzourani<sup>1</sup>, C. Voidarou<sup>1</sup>,  
E. Stavropoulou<sup>3</sup>, E. Bezirtzoglou<sup>1</sup>  
<sup>1</sup>University of Thrace, <sup>2</sup>University of Athens, <sup>3</sup>University of Thrace, Medical School, Greek
- 10:00- S4-4 Germfree animal studies lead to the revelation of new functions of vitamin K  
Michio Komai, Hitoshi Shirakawa  
Tohoku University, Japan

## **Symposium 5 : 10:30-13:00**

### **Infection in Hematopoietic Stem Cell Transplantation**

**(Cosponsored by Chugai Pharmaceutical CO., Ltd.)**

**(Cosponsored by Pfizer Japan Inc.)**

Chairpersons: Touru Masaoka

(Osaka Medical Center for Cancer and Cardiovascular Diseases, Japan)

Shuichi Taniguchi (Toranomon Hospital, Japan)

Speaker:

- 10:30- S5-1 Infection in HSCT  
Anders Fasth<sup>1</sup> and Vanderson Rocha<sup>2</sup>  
<sup>1</sup> University of Gothenburg, Sweden  
<sup>2</sup> Eurocord/EBMT, France
- 11:00- S5-2 Blood stream infections in allogeneic hematopoietic stem cell transplant recipients: reemergence of Gram-negative rods and increasing antibiotic resistance.  
M. Mikulska, V. Del Bono, A.M. Raiola, B. Bruno, F. Gualandi, D. Occhini,  
C. di Grazia, A. Bacigalupo, F. Frassoni, C. Viscoli  
San Martion Hospital, Italy

- 11:30- S5-3 Fungal infection in HSCT  
Shinichiro Mori  
St.Luke's International Hospital, Japan
- 12:00- S5-4 Infectious complications following reduced-intensity cord blood transplantation  
Shuichi Taniguchi  
Toranomom Hospital, Japan

### **Special Program : 13:00-14:00**

#### **Nuclear accident and HSCT**

Chairpersons: Yoshihisa Kodera (Aichi Medical University, Japan)  
Shunichi Kato (Tokai University, Japan)

Speaker:

- 13:00- EMBT activity and principle on nuclear accident  
Francesco Frassoni  
San Martion Hospital, Italy
- 13:30- Autologous hematopoietic stem cell preservation in nuclear plant workers  
Shuichi Taniguchi  
Toranomom Hospital, Japan

### **Coffee Break (14:00-14:15)**

### **Symposium 6 : 14:15-16:15**

#### **Probiotics**

Chairpersons: Hiromichi Ishikawa (Keio University, Japan)  
Kazuo Tanaka (Showa University, Japan)

Speaker:

- 14:15- S6-1 Contribution of intestinal flora to homeostasis and IBD pathogenesis  
Toshifumi Hibi  
Keio University, Japan
- 14:45- S6-2 Mucosal decisions for immunity to co-habitation of microflora  
Hiroshi Kiyono  
The University of Tokyo, Japan
- 15:15- S6-3 Control of immune responses by commensal bacteria during acute gastrointestinal infections  
Liliane M. dos Santos<sup>1,2</sup>, Timothy Hand<sup>2</sup>, Nicolas Bouladoux<sup>2</sup>,  
Yasmine Belkaid<sup>2</sup>  
<sup>1</sup>Federal University of Minas Gerais, Brazil,  
<sup>2</sup>National Institutes of Health, USA
- 15:45- S6-4 Physiological role of Indigenous lactobacilli / *H. pylori* in the stomach

Yasuhiro Koga  
Tokai University, Japan

## **Round Table Discussion : 16:15-17:15**

### **Posster Viewing : 17:15-18:00**

- P-1 Establishment of gnotobiotic miniature swine for xenotransplantation research program in Konkuk University, Seoul, Korea  
Jeong Ho Hwang\*, Sung Han Jung, Sang Eun Kim, Yoon B. Kim and Hoon Taek Lee  
Bio-Organ Research Center, Konkuk University, Korea
- P-2 *Lactobacillus* mono-associated mice might be down-regulated the serum antibody levels induced by dietary antigen compared with *Bacteroides* mono-associated mice  
Yuji Hamamoto<sup>a</sup>, Akira Hosono<sup>a</sup>, Masato Tsuda<sup>a</sup>, Daiki Kamo<sup>a</sup>, Satoshi Hachimura<sup>b</sup>, Yoshika Momose<sup>c</sup>, Kikuji Itoh<sup>c</sup>, Kazuhiro Hirayama<sup>c</sup>, Kyoko Takahashi<sup>a</sup>, Shuichi Kaminogawa<sup>a</sup>  
<sup>a</sup> Food and Physiological Functions Laboratory, Department of Food Bioscience and Biotechnology, Nihon University, <sup>b</sup> Research Center for Food Safety, Graduate School of Agricultural and Life Science, The University of Tokyo, <sup>c</sup> Department of Veterinary Public Health, Graduate School of Agricultural and Life Science, The University of Tokyo
- P-3 High incidence of radiation induced cavernous hemangioma in long-term survivors who underwent hematopoietic stem cell transplantation with radiation therapy during childhood or adolescence  
Takashi Koike<sup>1</sup>, Noriharu Yanagimachi<sup>2</sup>, Hiroyuki Ishiguro<sup>1</sup>, Hiromasa Yabe<sup>3</sup>, Miharuru Yabe<sup>4</sup>, Tsuyoshi Morimoto<sup>1</sup>, Takashi Shimizu<sup>2</sup>, Hiromitsu Takakura<sup>1</sup>, Shunichi Kato<sup>3</sup>  
<sup>1</sup>Department of Pediatrics, <sup>2</sup>Department of Radiology, <sup>3</sup>Department of Cell Transplantation & Regenerative Medicine, <sup>4</sup>Department of Laboratory Medicine, Tokai University School of Medicine, Isehara, Japan
- P-4 Problems in chimerism analysis using buccal mucosa after hematopoietic stem cell transplantation.  
Osamu Hyodo, Humiko Tsuchida Tatsuya Sugimoto, Kaoru Sato, Hiromasa Yabe, Fumiaki Yoshida, Shunichi Kato  
Department of Cell Transplantation and Regenerative Medicine, Tokai University School of Medicine, Isehara, Japan
- P-5 Characteristic of *Candida* from fungoid-bacterial associations at inflammatory disorders of the upper respiratory tract  
Anatoliy P. Godovalov<sup>1,2</sup>, Liliya P. Bykova<sup>1</sup>, Anatoliy I. Morgunenko<sup>1</sup>, Sergey Gris<sup>2</sup>  
<sup>1</sup>Acad. E.A. Wagner Perm State Medical Academy, Perm, Russia, <sup>2</sup>Medical Unit of Municipal Department of Internal Affairs on Perm region, Perm, Russia
- P-6 The role of sugars in the minor correction of immune status of beings  
O.S. Korneeva, I.V. Cheremuskina  
Voronezh State Technological Academy, Russia

- P-7 Characteristics of Interaction between tick-born encephalitis virus and human immune system  
Liliya P. Bykova<sup>1</sup>, Rafael Z. Kuziaev<sup>1</sup>, Anatoliy P. Godovalov<sup>1,2</sup>, Sergey Gris<sup>1</sup>  
<sup>1</sup>Acad. E.A. Wagner Perm State Medical Academy, Perm, Russia, <sup>2</sup>Medical Unit of Municipal Department of Internal Affairs on Perm region, Perm, Russia
- P-8 Changes in phenotypic and functional properties of mononuclear leukocytes as a result of bacterial vaccine application under induced immunosuppression  
Olga V. Lebedinskaya<sup>1</sup>, Elena A. Lebedinskaya<sup>1</sup>, Nelly K. Akhmatova<sup>2</sup>, Anatoliy P. Godovalov<sup>1</sup>, Sergey Gris<sup>1</sup>  
<sup>1</sup>E.A. Wagner Perm State Medical Academy, Perm, Russia, <sup>2</sup>I.I. Mechnikov Scientific Research Institute of Vaccines and Sera, RAMS, Moscow, Russia
- P-9 Anti-inflammatory properties of *Bifidobacterium spp.* strains isolated from healthy infant feces  
E.V. Khokhlova<sup>a</sup>, B.A. Efimov<sup>a</sup>, L.I. Kafarskaia<sup>a</sup>, S.I. Pavlova<sup>b</sup>, and A.N. Shkoporov<sup>a</sup>  
<sup>a</sup>Department of Microbiology and Virology, Russian State Medical University, Moscow, Russian Federation, <sup>b</sup>Department of Pharmacology, Russian State Medical University, Moscow, Russian Federation, Russia
- P-10 Physiological changes of liver induced by fluoroquinolones and hepatoprotective effect of CAP18/LL-37 synthetic peptide in mice  
S. Takagi<sup>1</sup>, Y. Sugawara<sup>1</sup>, K. Inada<sup>2</sup>, H. Isogai<sup>3</sup> and E. Isogai<sup>1</sup>  
<sup>1</sup>Tohoku University, <sup>2</sup>Iwate Medical University and <sup>3</sup>Sapporo Medical University, Japan
- P-11 Role of IL-10 and IL-17 in the *Mycoplasma pneumoniae* experimental pneumonia model  
Satoshi Kurata<sup>1</sup>, Haruhiko Taguchi<sup>2</sup>, Takako Osaki<sup>1</sup>, Tomoko Hanawa<sup>1</sup>, Hideo Yonezawa<sup>1</sup>, Shigeru Kamiya<sup>1</sup>  
<sup>1</sup>Department of Infectious Diseases, Kyorin University School of Medicine, <sup>2</sup>Department of Immunology, Kyorin University Faculty of Health Sciences, Japan
- P-12 Wild deer have antibodies recognizing tick defensin with tertiary structure  
E. Isogai<sup>1</sup>, N. Isogai<sup>2</sup>, K. Sato<sup>1</sup>, H. Yoneyama<sup>1</sup>, T. Fukuda<sup>1</sup>, Y. Deguchi<sup>3</sup>, K. Matsubara<sup>3</sup>, H. Murata<sup>4</sup>, T. Tuboi<sup>5</sup>, M. Haritani<sup>5</sup>, T. Miyamoto<sup>5</sup> and H. Isogai<sup>2</sup>  
<sup>1</sup>Tohoku University, <sup>2</sup>Sapporo Medical University, <sup>3</sup>Iwate University, <sup>4</sup>Kyoto Sangyo University, <sup>5</sup>National Institute of Animal Health, Japan
- P-13 Gut Indigenous Microbiota and Epigenetics  
B.A. Shenderov  
Moscow Research Institute of Epidemiology and Microbiology after G.N. Gabrichevsky, Russia
- P-14 Impact of dihydrodaidzein-producing *Clostridium*-like intestinal bacterium, strain TM-40 on *in vitro* metabolism of daidzein by equol-producing bacterium and fecal microbiota from human.  
Motoi Tamura<sup>\*</sup>, Sachiko Hori, Yukie Kurusu, Hiroyuki Nakagawa  
National Food Research Institute, National Agriculture and Food Research Organization, Tsukuba, Japan
- P-15 Microflora of pregnant women and methods of it's correction at disbiosis.  
T.M. Lyaskovsky  
Institute of Microbiology and Virology, National Academy of Sciences of Ukraine, Ukraina

- P-16 Comparative analysis of gastric bacterial microbiota in Mongolian gerbil after long-term infection with *Helicobacter pylori*  
Takako Osakia<sup>1</sup>, Cynthia Zaman<sup>1</sup>, Takahiro Matsuki<sup>2</sup>, Takashi Asahara<sup>2</sup>, Hideo Yonezawa<sup>1</sup>, Tomoko Hanawa<sup>1</sup>, Satoshi Kurata<sup>1</sup>, Fuhito Hojo<sup>1</sup>, Shigeru Kamiya<sup>1</sup>  
<sup>1</sup>Department of Infectious Diseases, Kyorin University School of Medicine, <sup>2</sup>Yakult Central Institute for Microbiological Research, Yaho Kunitachi Tokyo, Japan
- P-17 Gut colonization shapes the host's metabolism  
Sandrine P Claus<sup>1</sup>, Léa Maître<sup>2</sup>, Steve Robinette<sup>2</sup>, Sunil Kochhar<sup>3</sup>, Jeremy K Nicholson<sup>2</sup>  
<sup>1</sup>Department of Food and Nutritional Sciences, The University of Reading, Whiteknights, PO Box 226, RG6 6AP, Reading, UK, <sup>2</sup>Biomolecular Medicine, Department of Surgery and Cancer, Faculty of Medicine, Imperial College London, SW7 2AZ, London, UK, <sup>3</sup>Nestlé Research Centre, NESTEC Limited, Vers-chez-les-Blancs, Lausanne, Switzerland
- P-18 Features of Intestinal Microbial Biocenoses in Dysbiotic Individuals  
E.F. Zavgorodnyaya, L.A. Stashkevich  
Khabarovsk Research Institute of Epidemiology and Microbiology, Federal State Institution of Science under the Federal Service for Supervision in the Field of Consumer Right Protection and Human Welfare, Russian Federation, Russia
- P-19 Evaluation of sterility tests for cord blood banking in the Tokai University Cord Blood Bank.  
Tatsuya Sugimoto, Hitomi Sasaki, Rie Ando, Sachiyo Sskama, Chie Nakashioya, Fumiko Tsuchida, Kaoru Sato, Shunichi Kato  
Tokai University Cord Blood Bank, Tokai University Hospital, Isehara, Japan
- P-20 The study of the bacterial contamination in the spray water of electronic toilets and in the gluteal and inguinal regions due to splashing following spray water  
Hideki Katano<sup>1,5</sup>, Kumi Yokoyama<sup>2</sup>, Yasushi Takei<sup>3</sup>, Hideaki Matsuki<sup>1</sup>, Mami Tsukiji<sup>3</sup>, Seiki Tazume<sup>1,5</sup>  
<sup>1</sup>Tokai University, School of Health Sciences, <sup>2</sup> Tokyo Healthcare University, <sup>3</sup>Gifu University of Medical Science, <sup>4</sup>Kanagawa Prefectural University of Human Service, <sup>5</sup>Venex Reserch Institute, Japan
- P-21 Molecular Epidemiological Analysis of Methicillin-Resistant Staphylococci in a Neonatal Intensive Care Unit  
Yasushi Takei<sup>1, 2</sup>, Kumi Yokoyama<sup>3</sup>, Hideki Katano<sup>4</sup>, Mami Tsukiji<sup>5</sup>, Takayuki Ezaki<sup>1</sup>, Seiki Tazume<sup>6</sup>  
<sup>1</sup>Department of Microbiology, Gifu University, Graduate School of Medicine, Japan, <sup>2</sup>Juntendo University School of Health Sciences and Nursing, Japan, <sup>3</sup>Tokyo Healthcare University, Japan, <sup>4</sup>Venex Research Institute, Japan, <sup>5</sup>Kanagawa Prefectural University of Human Service, Japan, <sup>6</sup>Tokai University, Japan
- P-22 Isolation of Toxigenic and Nontoxigenic *Corynebacterium diphtheriae* Strains upon Preventive Examination of Hospital Patients  
I.N. Alexeeva, S.E. Ivanova, N.V. Kasyanenko, E.V. Lovshuk, N.I. Dorogovtseva, G.F. Rakitsky  
Territorial Mental Hospital, State Institution of Public Health, Khabarovsk

- P-23 Inhibition of Biofilm Formation and Virulence Factor Expression via Control of Quorum Sensing in Pathogenic Bacteria  
Tsukasa Ikeda, Tomohiro Morohoshi  
Department of Material and Environmental Chemistry, Graduate School of Engineering, Utsunomiya University, Japan
- P-24 Deletion of alarmon synthetase altered physiology and biofilm formation of *Bordetella pertussis*  
Kentaro Sugisaki<sup>1</sup>, Tomoko Hanawa<sup>1</sup>, Hideo Yonezawa<sup>1</sup>, Takako Osaki<sup>1</sup>, Satoshi Kurata<sup>1</sup>, H. Kawakami<sup>2</sup>, Shigeru Kamiya<sup>1</sup>  
<sup>1</sup>Department of Infectious Diseases, <sup>2</sup> Department of Anatomy, Kyorin University, School of Medicine, Japan
- P-25 Inhibition of *Staphylococcus aureus* biofilm formation and nasal colonization by a commensal bacterium *Staphylococcus epidermidis*  
Tadayuki Iwase<sup>1</sup>, Yoshio Uehara<sup>2</sup>, Hitomi Shinji<sup>1</sup>, Akiko Tajima<sup>1</sup>, Hiromi Seo<sup>2</sup>, Sinya Sugimoto<sup>1</sup>, Toshihiko Agata<sup>3</sup>, Koji Takada<sup>4</sup>, and Yoshimitsu Mizunoe<sup>1</sup>.  
<sup>1</sup>Department of Bacteriology, The Jikei University School of Medicine, Tokyo, Japan, <sup>2</sup>Department of General Medicine, Kochi Medical School, Nankoku, Japan, <sup>3</sup>Department of Environmental Health, <sup>4</sup>Department of Biochemistry, The Jikei University School of Medicine, Tokyo, Japan
- P-26 Probiotics and innate immunity: Regulation of anticancer activity.  
V. Abramov<sup>1</sup>, V. Khlebnikov<sup>1</sup>, I. Chikileva<sup>1,2</sup>, V. Sakulin<sup>1</sup>, I. Kosarev<sup>1</sup>, R. Vasilenko<sup>1</sup>, M. Kiselevky<sup>1</sup>, V. Melnikov<sup>3\*</sup>  
<sup>1</sup> The Institute of Immunological Engineering, 142380 Lyubuchany, Moscow Reg. Russia, <sup>2</sup> Russian Oncological Centre, RAMS, Moscow, Russia, <sup>3</sup> International Science and Technology Center, Moscow, Russia
- P-27 Possible health promoting benefits of heat killed *Lactobacillus gasseri* TMC0356, a new selected immune regulatory probiotics strain  
K. Miyazawa, F. He, K. Yoda, M. Kawase, A. Kubota, M. Hiramatsu  
Technical Research Laboratory, Takanashi Milk Products Co., Ltd., Japan
- P-28 Effects of probiotics on gut Microbiota composition in familiar mediterranean fever and Crohn's disease patients  
A.M. Manvelyan<sup>1</sup>, M.A. Balayan<sup>1</sup>, E.S. Pepoyan<sup>1</sup>, S.S. Mirzabekyan<sup>1</sup>, L.M. Malkhasyan<sup>1</sup>, V.V. Tsaturyan<sup>2</sup>, A.Z. Pepoyan<sup>1</sup>  
<sup>1</sup> Food Security and Biotechnology Department, Armenian State Agrarian University, <sup>2</sup> Yerevan State Medical University after M. Heratsi, Republic of Armenia
- P-29 Development of probiotic preparations and functional food products on the base of lactic acid bacteria  
N.K. Kovalenko  
Institute of Microbiology and Virology, National Academy of Sciences of Ukraine, Ukraine
- P-30 Beneficial effects of fermented milk containing *Lactobacillus* GG on DSS-induced colitis in mice  
K.Y oda, F. He, K. Miyazawa, M. Kawase, A. Kubota, M. Hiramatsu, F. Yan <sup>1</sup>

- Takanashi Milk Products Co., Ltd., Japan, <sup>1</sup>Vanderbilt University School of Medicine, USA
- P-31 Influence of probiotic enterococci on the gastrointestinal tract of rats before and after the treatment of antibiotic associated dysbiosis  
A. Suvorov <sup>1</sup>, L. Gromova <sup>2</sup>, Y. Borschev <sup>2</sup>, E. Ermolenko <sup>1</sup>, A. Karaseva <sup>1</sup>, A. Gruzdkov <sup>2</sup>  
<sup>1</sup>Institute of Experimental Medicine RAMS, <sup>2</sup>Pavlov Institute of Physiology RAS, St. Petersburg, Russia
- P-32 Development of the Caucasian lactic acid bacterial culture collection for the potential industrial use.  
Nina Chanishvili  
Eliava Institute of Bacteriophage, Microbiology and Virology, Tbilisi, Georgia
- P-33 Probiotic "Lactovit-K" fights against coccidiosis of poultry and honey bee diseases.  
<sup>1</sup>N.N. Gavrilova, <sup>1</sup>I.A. Ratnikova, <sup>2</sup>V.G. Melnikov  
<sup>1</sup>Institute of Microbiology and Virology, Almaty, Kazakhstan, <sup>2</sup>International Science and Technology Center, Moscow, Russia
- P-34 Biological active compounds from probiotic bacteria  
G. Novik <sup>1</sup>, Kiseleva E. <sup>2</sup>, Melnikov V. <sup>3</sup>, Gamian A. <sup>4</sup>, Knirel Y. <sup>5</sup>, Szwajcer Dey E. <sup>6</sup>  
<sup>1</sup>Institute of Microbiology BNAS, Minsk, Belarus, <sup>2</sup>Institute of bioorganic chemistry BNAS, Minsk, Belarus, <sup>3</sup>International Science and Technology Center, Moscow, Russia, <sup>4</sup>Institute of Immunology and Experimental Therapy, PAS, Wrocław, Poland, <sup>5</sup>N.D. Zelinsky Institute of Organic Chemistry, RAS, Moscow, Russia, <sup>6</sup>Lund University, Pure and Applied Biochemistry, Lund, Sweden
- P-35 The role of probiotics in rehabilitation of sportsmen after post match exertion  
G.A. Hoveyan <sup>1</sup>, M.A. Badalyan <sup>1</sup>, A.G. Hoveyan <sup>2</sup>, E.S. Pepoyan <sup>3</sup>, V.V. Tsaturyan <sup>2</sup>, A.Z. Pepoyan <sup>3</sup>  
<sup>1</sup> Buniatian Institute of Biochemistry, National Academy of Sciences, Republic of Armenia  
<sup>2</sup> Yerevan State Medical University after M. Heratsi, Republic of Armenia, <sup>3</sup> Food Security and Biotechnology Department, Armenian State Agrarian University, Republic of Armenia
- P-36 Breakdown of Bifidobacterium flora by species in the process of intestinal biocenosis development in newborns and in dysbiotic individuals  
E.F. Zavgorodnyaya  
Khabarovsk Research Institute of Epidemiology and Microbiology, Federal State Institution of Sciences under the Federal Service for Supervision in the Field of Consumer Right Protection and Human Welfare, Russian Federation
- P-37 Efficacy of the probiotic strain *Clostridium butyricum* MIYAIRI 588 on poultry and piglet zootechnical performance and prevention of necrotic enteritis  
Motomichi Takahashi <sup>1,3</sup>, Miroslava Piskoríková <sup>2</sup>, Kaoruko Yuge <sup>1</sup>, Kentaro Oka <sup>1,3</sup>, Koji Uno <sup>1</sup>, Elinor McCartney <sup>2</sup>, Shigeru Kamiya <sup>3</sup>  
<sup>1</sup>Miyarisan Pharmaceutical, Japan, <sup>2</sup>EU Pen & Tec Consulting, Spain, <sup>3</sup>Department of Infectious Diseases, Kyorin University School of Medicine, Japan
- P-38 Reactivation of latent HIV-1 by a wide variety of butyric acid-producing bacteria  
Kenichi Imai, Kiyoshi Yamada, Muneaki Tamura, Kuniyasu Ochiai  
Department of Microbiology, Nihon University School of Dentistry, Japan



- P-39 Extracellular HIV-1 TAT (ExTat) regulates bacterial superoxide dismutase (SOD) allowing upregulation of reactive oxygen species (ROS) in *Porphorymonas gingivalis* and *Fusobacterium nucleatum*  
Marni Cueno, Muneaki Tamura, Kenichi Imai, Megumi Hamadate, Kuniyasu Ochiai  
Department of Microbiology, Nihon University School of Dentistry, Japan
- P-40 Evaluation of survival and infectivity of bacteriophage isolates from environmental samples in function of temperature and pH  
N. Bahador  
Department of Microbiology, Islamic Azad University, Science and Research Branch, Fars, Iran
- P-41 Coinfection of mammalian and tick cells with pathogenic and nonpathogenic spotted fever group rickettsiae  
Tsuneo Uchiyama<sup>1</sup>, Hiromi Fujita<sup>2</sup>  
<sup>1</sup>Department of Microbiology, Institute of Health Biosciences, The University of Tokushima Graduate School, Japan, <sup>2</sup>Ohara Research Laboratory, Ohara General Hospital, Japan
- P-42 *Leptotrichia* genus bacteria biotopes in the human body  
Strelnikova N.V., Antonova A.A., Polovova E.B.  
Microbiology, virology and immunology department, Far Eastern State Medical University, Khabarovsk, Russia
- P-43 Nasopharyngeal microbial biocenosis in children in the amur river area of Russia  
G.N. Kholodok, V.K. Kozlov  
Research Institute of Mother and Child Health Care, Khabarovsk Branch of the Far-Eastern Research Center of Respiratory Physiology and Pathology under the Siberian Branch of the Russian Academy of Medical Sciences, Russia
- P-44 Implication of the role of stringent response in the expression of adenylate cyclase toxin in *Bordetella pertussis*  
T. Hanawa, K. Sugisaki, H. Yonezawa, T. Osaki, S. Kurata, C. Zaman, S. Kamiya  
Department of Infectious Diseases, Kyorin University, School of Medicine, Japan
- P-45 Examination of growth conditions and nitrogen fixation capability of legumes selected from various sources in Northern Greece  
S. Kazakos<sup>1</sup>, S. Plessas<sup>\*1</sup>, A. Alexopoulos<sup>1</sup> and E. Bezirtzoglou<sup>1,2</sup>  
<sup>1</sup>Democritus University of Thrace, Faculty of Agriculture Development, Laboratory of Microbiology, Biotechnology and Hygiene, Orestiada, Greece, <sup>2</sup>Democritus University of Thrace, Faculty of Agriculture Development, Laboratory of Food Processing, Orestiada, Greece
- P-46 Biochemical studies on the virulence factors of fungi associated with She-Camel Milk  
Abd El- Aziz Mosaad<sup>1</sup>, Ahmed El- kirdasy<sup>2</sup>, Mostafa Al-sheerif<sup>3</sup>, Said Fathalla<sup>4</sup>;  
Abd El-Rahman M. El-Bagory<sup>5</sup>, Gamal Abd El. Gaber<sup>6</sup>  
<sup>1</sup>Department of Bacteriol., Mycol. and Immunol., Faculty of Veterinary Medicine, Minufiya University (Sadat Branch), Egypt, <sup>2</sup>Department of Biochemistry, and Chemistry of Nutrition, Faculty of Veterinary Medicine, Minufiya University (Sadat Branch), Egypt, <sup>3</sup>Department of Biology, Fac. of Art and Sci., Al-Mergeb University, El-khoms, Libya, <sup>4</sup>Department of Physiol., Fac. of Vet. Med., Minufiya University (Sadat Branch), Egypt, <sup>5</sup>Dept. of Food Hygiene & Control, Fac. of Vet. Med., Minufiya Univ. (Sadat

Branch), Egypt, <sup>6</sup>Department of Bacteriol., Mycol. and Immunol., Fac. of Vet. Med., Mansoura Univ., Egypt

P-47 *In vivo* antibacterial activity of Phx-3 against *Helicobacter pylori*.

F. Hojo <sup>1</sup>, T. Osaki <sup>2</sup>, T. Hanawa <sup>2</sup>, A. Tomoda <sup>3</sup>, S. Kamiya<sup>1,2</sup>

<sup>1</sup>Institute of Laboratory Animals, Graduate School of Medicine, Kyorin University, Tokyo, Japan, <sup>2</sup>Department of Infectious Diseases, Division of Medical Microbiology, Kyorin University, School of Medicine, Tokyo, Japan, <sup>3</sup>Department of Biochemistry and Intractable Immune System Disease Research Center, Tokyo Medical University, Tokyo, Japan

P-48 Detection of *Campylobacter* is possible using their physical characters

M. Baserisalehi

Department of Microbiology, Islamic Azad University- Kazeroun branch. Kazeroun, Iran

P-49 Bacillus Probiotics: biological and clinical effects.

L.A Safronova

Zabolotny Institute of Microbiology and Virology, Kiev, Ukraine

P-50 Monoclonal antibodies against the accumulation-associated protein influence EPS biosynthesis and enhance bacterial accumulation of *Staphylococcus epidermidis*

Yang Wu, Jian Hu, Tao Xu, Huayong Liu, Youcong Wu, Di Qu

Key Laboratory of Medical Molecular Virology of Ministries of Education and Health,

Institute of Medical Microbiology and Institutes of Biomedical Sciences, Fudan University,

Shanghai 200032, China

P-51 Eubiotics in medicine

N.N. Gavrilova, I.A. Ratnikova

The Institute of Microbiology and Virology, Almaty, Kazakhstan

## **General Meeting (IAG/SOMED)**

**Break : -18:40**

**Dinner Cruise : 18:45-**

**Minatomirai**

**(Gathering point: Registration Desk, 2F., Navios Yokohama)**

November 23 Wednesday

## **Symposium 7 : 9:00-10:30**

### **Biofilm**

Chairpersons: Shigeru Kamiya (Kyorin University, Japan)

Speaker:

- 09:00- F-4 The University Of Chicago Gnotobiotic Research Animal Facility (GRAF)  
(Free Paper) A new member in the gnotobiotic community  
Betty R. Theriault, Christina Olivares, Alan Vest, George A. Langan  
The University of Chicago, USA
- 09:20- S7-1 Development of novel methods for the search of antibiofilm agents  
Reiko Kariyama, Hiromi Kumon  
Okayama University, Japan
- 09:40- S7-2 Two-component signal transduction systems and biofilm formation of  
*Staphylococcus epidermidis*  
Di Qu<sup>1</sup>, Yang Wu<sup>1</sup>, Shiqing Han<sup>2</sup>, Xu Shen<sup>3</sup>, Hualiang Jiang<sup>3</sup>  
<sup>1</sup>Shanghai Medical College of Fudan University  
<sup>2</sup>Nanjing University of Technology  
<sup>3</sup>Chinese Academy of Sciences, China
- 10:00- S7-3 Biofilm formation by *Helicobacter pylori*  
Hideo Yonezawa, Shigeru Kamiya  
Kyorin University, Japan

## **Coffee Break (10:30-10:45)**

## **Symposium 8: 10:45-12:15**

### **Mycoplasma**

**(Co-sponsored by Eiken Chemical CO., Ltd.)**

Chairpersons: Boris Shenderov (Institute of Molecular Immunology, Russia)

Haruhiko Taguchi (Kyorin University, Japan)

Speaker:

- 10:45- F-5 Production of gnotobiotic miniature Swines for xenotransplantation  
(Free Paper) Hoon Taek Lee  
Konkuk University, Korea
- 11:05- S8-1 Immune response of the gnotobiotic mouse model induced *Mycoplasmal pneumonia* and evaluation of antimicrobials using the model  
Haruhiko Taguchi<sup>1</sup>, Satoshi Kurata<sup>2</sup>, Ken Arae<sup>1</sup>, Tsuyoshi Onogawa<sup>1</sup>, Shigeru Kamiya<sup>2</sup>  
<sup>1</sup>Kyorin University Faculty of Health Sciences,  
<sup>2</sup>Kyorin University School of Medicine, Japan
- 11:25- S8-2 Epidemiology, diagnosis, medication and vaccination of avian mycoplasmosis in Taiwan

Michael Maw-Yeong LIN

National Pingtung University of Science and Technology, Taiwan

11:45- S8-3 Diagnosis of *Mycoplasma pneumoniae* and other respiratory tract infections using gene amplification method "Loop-mediated isothermal amplification (LAMP)"

Yoshinori Ota, Manabu Yoshino, Toshimitsu Annaka, Tsugunori Notomi,

Hidetoshi Kanda

Eiken Chemical Co., LTD., Japan

**Presentation of Closing Remarks : 12:15-12:30**