

# Oral Session

## Friday, November 17

Oral Session 1

8:30-9:40 Room 5 (Room B-1)

### O1 Cardiovascular Diseases

**Chairs: Tjin-Shing Jap** *Division of Endocrinology and Metabolism, Taipei veterans General Hospital, Taiwan*  
**Naohiko Takahashi** *Oita University, Japan*

**O1-1 GPIHBP1 autoantibodies in human plasma and its detection method**

**Katsuyuki Nakajima**<sup>1</sup>, Kazuya Miyashita<sup>2</sup>, Isamu Fukamachi<sup>2</sup>, Anne P. Beigneux<sup>3</sup>, Stephen G. Young<sup>3</sup>, Tetsuo Machida<sup>1</sup>, Kiyomi Nakajima<sup>1</sup>, Masami Murakami<sup>1</sup>

<sup>1</sup>Department of Clinical Laboratory Medicine, Gunma University Graduate School of Medicine, Maebashi, Japan, <sup>2</sup>Immuno-Biological Laboratories, Fujioka, Japan, <sup>3</sup>Department of Medicine, University of California, Los Angeles, USA

**O1-2 Plasma GPIHBP1 levels in cases with cardiovascular disease**

**Yuji Muraba**<sup>1</sup>, Takafumi Koga<sup>1</sup>, Yohnosuke Shimomura<sup>1,3</sup>, Takao Kimura<sup>2</sup>, Katsuyuki Nakajima<sup>1,2</sup>, Osamu Araki<sup>2</sup>, Katsuhiko Tsunekawa<sup>2</sup>, Tetsuo Machida<sup>2</sup>, Masami Murakami<sup>2</sup>

<sup>1</sup>Hidaka Hospital, Japan, <sup>2</sup>Department of Clinical Laboratory Medicine, Gunma University Graduate School of Medicine, <sup>3</sup>Diabetes and Metabolic Disease Research Center, Hidaka Hospital

**O1-3 Possible involvement of glycerol-lysophospholipids in the pathogenesis of ACS, revealed by an LC/MS technique**

**Makoto Kurano**<sup>1</sup>, Kuniyuki Kano<sup>2</sup>, Tomotaka Dohi<sup>3</sup>, Hitoshi Ikeda<sup>1</sup>, Junken Aoki<sup>2</sup>, Yutaka Yatomi<sup>1</sup>

<sup>1</sup>Department of Clinical Laboratory Medicine, The University of Tokyo, Tokyo, Japan, <sup>2</sup>Laboratory of Molecular and Cellular Biochemistry, Graduate School of Pharmaceutical Sciences, Tohoku University, Miyagi, <sup>3</sup>Department of Cardiovascular Medicine, Juntendo University School of Medicine

**O1-4 Fibroblast growth factor 23 is associated with high-sensitivity cardiac troponin I, T and left ventricular hypertrophy**

**Atsushi Ito**, Noriyasu Niizeki, Yutaka Tomoda, Kazumi Akasaka, Satoshi Fujii

*Department of Medical Laboratory and Blood Center, Asahikawa Medical University Hospital, Hokkaido, Japan*

**O1-5 Evaluation of 10-year atherosclerotic cardiovascular disease risk prediction using pooled cohort equation**

**Christianus Heru Setiawan**, Rita Suhadi, Dita Maria Virginia

*Department of Pharmacology and Clinical Pharmacy, Faculty of Pharmacy, Sanata Dharma University, Yogyakarta, Indonesia*

**O1-6 Association of lipid profiles with 10 year atherosclerotic cardiovascular disease risk: Study in community**

**Rita Suhadi**, Dita Maria Virginia, Christianus Heru Setiawan

*Faculty of Pharmacy, Sanata Dharma University, Indonesia*

**O1-7 Relationship between glomerular filtration rate and cardiovascular risk on hypertension patients in Yogyakarta Indonesia**

**Dita Maria Virginia**, Rita Suhadi, Christianus Heru Setiawan, Erna Tri Wulandari, Yunita Linawati

*Faculty of Pharmacy, Universitas Sanata Dharma, Yogyakarta, Indonesia*

## O2 Lipoprotein

**Chairs: Gabriela Moreira**  
**Takashi Miida**

*Dirección Técnica Laboratorio, Instituto Nacional del Cáncer, Uruguay*  
*Department of Clinical Laboratory Medicine, Juntendo University Graduate School of Medicine, Japan*

**O2-1 Cholesterol efflux capacity of apolipoprotein E-containing high-density lipoprotein**

**Yuna Horiuchi**, Ryunosuke Ohkawa, Hayato Ikoma, Shao-Jui Lai, Kouji Yano, Minoru Tozuka

*Analytical Laboratory Chemistry, Graduate School of Health Care Sciences, Tokyo Medical and Dental University, Japan*

**O2-2 Effect of myeloperoxidase oxidation and N-homocysteinylolation of HDL on its endothelial repair function**

**Takahiro Kameda**<sup>1,2</sup>, Ryunosuke Ohkawa<sup>2</sup>, Ayaka Nakamura<sup>2</sup>, Yuna Horiuchi<sup>2</sup>, Azusa Yamazaki<sup>2</sup>, Shao-Jui Lai<sup>2</sup>, Minoru Tozuka<sup>2</sup>

<sup>1</sup>*Department of Medical Technology, School of Health Sciences, Tokyo University of Technology, Japan,*

<sup>2</sup>*Analytical Laboratory Chemistry, Graduate School of Health Care Sciences, Tokyo Medical and Dental University (TMDU)*

**O2-3 Effect of oxidized LDL and HDL on monocyte chemotactic protein-1 secretion of HUVEC**

**Ayaka Nakamura**, Ryunosuke Ohkawa, Kouji Yano, Takahiro Kameda, Minoru Tozuka

*Analytical Laboratory Chemistry, Graduate School of Health Care Sciences, Tokyo Medical and Dental University, Japan*

**O2-4 Glycation of apolipoprotein M attenuated its capacity to bind sphingosine 1-phosphate**

**Tamaki Kobayashi**<sup>1,2</sup>, Makoto Kurano<sup>1</sup>, Yuko Mishima<sup>1,2</sup>, Takahiro Nojiri<sup>1</sup>, Ryunosuke Ohkawa<sup>2</sup>, Minoru Tozuka<sup>2</sup>, Yutaka Yatomi<sup>1</sup>

<sup>1</sup>*Department of Clinical Laboratory, The University of Tokyo Hospital, Tokyo, Japan,* <sup>2</sup>*Analytical Laboratory Chemistry, Field of Applied Laboratory Science, Graduate School of Health Care Sciences, Tokyo Medical and Dental University, Tokyo*

**O2-5 Difference between sphingosine 1-phosphate and dihydrosphingosine 1-phosphate in their preference to HDL or albumin**

**Yuko Mishima**<sup>1</sup>, Makoto Kurano<sup>2</sup>, Tamaki Kobayashi<sup>2</sup>, Masako Nishikawa<sup>2</sup>, Ryunosuke Ohkawa<sup>3</sup>, Minoru Tozuka<sup>3</sup>, Yutaka Yatomi<sup>2</sup>

<sup>1</sup>*Department of Transfusion Medicine and Immunohematology, The University of Tokyo Hospital, Japan,*

<sup>2</sup>*Department of Clinical Laboratory, The University of Tokyo Hospital,* <sup>3</sup>*Analytical Laboratory Chemistry, Graduate School of Health Care Sciences, Tokyo Medical and Dental University*

**O2-6 The relationship between hepatic lipase and small dense LDL-C in patients with coronary artery disease**

**Yuji Muraba**<sup>1,2</sup>, Takao Kimura<sup>2</sup>, Katsuyuki Nakajima<sup>1,2</sup>, Osamu Araki<sup>2</sup>, Katsuhiko Tsunekawa<sup>2</sup>, Tetsuo Machida<sup>2</sup>, Masami Murakami<sup>2</sup>

<sup>1</sup>*Hidaka Hospital, Japan,* <sup>2</sup>*Department of Clinical Laboratory Medicine, Gunma University Graduate School of Medicine*

## O3 Endocrinology &amp; Metabolism

**Chairs: Nairo M. Sumita**

*Clinical Pathology, Central Laboratory Division, Clinical Hospital of Sao Paulo University, Sao Paulo, Brazil*

**Haruhiko Osawa**

*Ehime University, Japan*

**O3-1 Oxygen-18 isotope of breath carbon dioxide as a non-invasive marker to distinguish type 1 and type 2 diabetes**

**Chiranjit Ghosh**, Santanu Mandal, Manik Pradhan

*S. N. Bose National Centre for Basic Sciences, JD Block, Sector III, Salt Lake, India*

**O3-2 Fasting blood sugar ratio with HBA1c and blood pressure as predictor of atherogenic status in diabetes patients in Abuja**

**Adeyemi A. Adesina**<sup>1</sup>, David A. Badejo<sup>1</sup>, Samuel O. Oyedeji<sup>2</sup>, Samuel A. Kumuyi<sup>1</sup>

<sup>1</sup>*Department of Chemical Pathology, Obafemi Awolowo University Teaching Hospital, Ile-Ife, Osun, Nigeria,*

<sup>2</sup>*NNPC Medical Service Abuja, Abuja, Nigeria*

- O3-3 Genetic and epigenetic factors influencing HbA1c levels in monozygotic twins**  
**Ritsuko Ozaki<sup>1</sup>**, Mikio Watanabe<sup>1,2</sup>, Yoichi Takenaka<sup>2,3</sup>, Chika Honda<sup>2</sup>, Rie Tomizawa<sup>2</sup>, Yoshinori Iwatani<sup>1,2</sup>  
<sup>1</sup>Department of Clinical Laboratory Science; Division of Health Sciences, Osaka University Graduate School of Medicine, Osaka, Japan, <sup>2</sup>Center for Twin Research, Osaka University Graduate School of Medicine, Osaka, <sup>3</sup>Faculty of Informatics, Kansai University, Osaka
- O3-4 1,5-anhydroglucitol for the evaluation of glycemic control in patients treated with dipeptidyl peptidase-4 inhibitors**  
**Osamu Araki<sup>1,2</sup>**, Rieko Nakahara<sup>2</sup>, Katsuhiko Tsunekawa<sup>1</sup>, Akihiro Yoshida<sup>1</sup>, Makoto Imamura<sup>1</sup>, Hiroyuki Sumino<sup>1</sup>, Takao Kimura<sup>1</sup>, Makoto Nara<sup>1</sup>, Masami Murakami<sup>1</sup>  
<sup>1</sup>The Department of Clinical Laboratory Medicine, Gunma University Graduate School of Medicine, Maebashi, Japan, <sup>2</sup>Tone-Chuo Hospital, Numata
- O3-5 Sex differences in plasma glucose and insulin secretion on 75g OGTT among young and elderly healthy subjects**  
**Akihiro Yoshida<sup>1</sup>**, Takao Kimura<sup>1</sup>, Katsuhiko Tsunekawa<sup>1</sup>, Osamu Araki<sup>1</sup>, Makoto Nara<sup>2</sup>, Hiroyuki Sumino<sup>1</sup>, Tomoyuki Aoki<sup>1</sup>, Masami Murakami<sup>1</sup>  
<sup>1</sup>Department of Clinical Laboratory Medicine, Gunma University Graduate School of Medicine, Japan, <sup>2</sup>Infection Control and Prevention Center, Gunma University Hospital
- O3-6 The association of age on the level of plasma resistin and vaspin in obese people**  
**Novi Khila Firani<sup>1,2,3</sup>**, Nonong Eriani<sup>4</sup>, Agustin Iskandar<sup>1</sup>  
<sup>1</sup>Department of Clinical Pathology, Faculty of Medicine, University of Brawijaya, Indonesia, <sup>2</sup>Department of Biochemistry, Faculty of Medicine, University of Brawijaya, <sup>3</sup>Department of Oral Biology, Faculty of Dentistry, Universitas Brawijaya, <sup>4</sup>Department of Clinical Pathology, Dr. Fauziah Bireuen Hospital, Aceh, Indonesia
- O3-7 Three cases with resistance to thyroid hormone caused by the mutations in thyroid hormone receptor  $\beta$  gene**  
**Katsuhiko Tsunekawa**, Yoshifumi Shoho, Tadashi Morimura, Akihiro Yoshida, Osamu Araki, Makoto Nara, Takao Kimura, Tetsuo Machida, Masami Murakami  
 Department of Clinical Laboratory Medicine, Gunma University Graduate School of Medicine, Japan

Oral Session 4

9:40-10:40 Room 6 (Room B-2)

**O4 Microbiology**

**Chairs: Ida Parwati**  
**Mitsuo Kaku**

Department of Clinical Pathology, Universitas Padjadjaran, Bandung, Indonesia  
 Department of Infection Control and Laboratory Diagnostics, Internal Medicine, Tohoku University Graduate School of Medicine, Japan

**O4-1 Molecular epidemiology of MDR-tuberculosis by 24-locus MIRU-VNTR and spatial analysis in the west part of Indonesia**

**Lia Gardenia Partakusuma<sup>1</sup>**, Budi Mulyono<sup>2</sup>, Ida Parwati<sup>3</sup>

<sup>1</sup>National Cardiovascular Center Harapan Kita Hospital, Jakarta, Indonesia, <sup>2</sup>Clinical Pathology Departement, Gadjah Mada University, Yogyakarta, <sup>3</sup>Clinical Pathology Departement, Padjadjaran University, Bandung

**O4-2 Characteristics of tuberculosis patients with multidrugs resistant tuberculosis in Ulin Hospital**

**Dewi-Indah Noviana Pratiwi<sup>1,2</sup>**

<sup>1</sup>Department of Clinical Pathology, Faculty Medicine, University of Lambung Mangkurat, Indonesia, <sup>2</sup>RSUD Ulin Banjarmasin

**O4-3 Assesment of hyponatremia (SIADH) in pulmonary tuberculosis patients independent of albumin status in IFE, Osun, Nigeria**

**Adeyemi A. Adesina<sup>1</sup>**, Samuel O. Oyedeji<sup>1</sup>, Kolawole F. Oyesiji<sup>2</sup>

<sup>1</sup>Department of Chemical Pathology, Obafemi Awolowo University Teaching Hospital, Ile-Ife, Osun, Nigeria, <sup>2</sup>Department of Medical Microbiology and Parasitology, Obafemi Awolowo University Teaching Hospital, Ile-Ife, Osun, Nigeria

**O4-4 Persistence of group B streptococcus on the urogenital area**

**Sunjoo Kim<sup>1</sup>**, Hyun-Woong Park<sup>1</sup>, Won-Hee Choi<sup>2</sup>

<sup>1</sup>Department of Laboratory Medicine, Gyeongsang National University, Jinju, Korea, <sup>2</sup>Department of Nursing Science, Kyungsung University, Busan, Korea

**O4-5 Nationwide survey of routine stool culture in Korean hospitals**  
**Sunjoo Kim<sup>1</sup>**, Jung-Hyun Byun<sup>1</sup>, Won-Hee Choi<sup>2</sup>  
<sup>1</sup>Department of Laboratory Medicine, Gyeongsang National University, Jinju, Korea, <sup>2</sup>Department of Nursing Science, Kyungsoo University, Busan, Korea

**O4-6 Hepatitis B, delta virus superinfection and HLA-DP polymorphism in Mongolians**  
**Ganchimeg Dondov<sup>1</sup>**, Zolzaya Doljoo<sup>1</sup>, Anarmaa Mendsaikhan<sup>1</sup>,  
Lkhaasuren Nemekhbayar<sup>1</sup>, Tegshjargal Badamjav<sup>1</sup>, Sarantuya Gidagaaya<sup>2,3</sup>,  
Oyungerel Ganjuur<sup>1</sup>, Surenjav Chimed<sup>1</sup>, Tulгаа Lonjid<sup>1</sup>, Otgonbayar Ishdorj<sup>1</sup>,  
Munkhtuvshin Namid<sup>1</sup>, Nao Nishida<sup>4</sup>, Bira Namdag<sup>2</sup>, Masashi Mizokami<sup>4</sup>,  
Munkhbat Batmunkh<sup>1,2</sup>  
<sup>1</sup>Institute of Medical Sciences, Mongolia, <sup>2</sup>Mongolian National University of Medical Sciences, Mongolia,   
<sup>3</sup>Intermed Hospital, Mongolia, <sup>4</sup>National Center for Global Health and Medicine, Japan

Oral Session 5

14:40-15:30 Room 6 (Room B-2)

**O5 Hematology**

**Chairs: Maadh Aldouri** Department of Haematology, The Royal College of Pathologists, London, UK  
**Mitsuru Murata** Keio University, Japan

**O5-1 Comparison of Green & King, Keikhaei, Hisham and Hameed Index as iron deficiency anemia screening tool in children**  
**Phey Liana<sup>1</sup>**, Nurveny Hidayanti<sup>2</sup>, Syafyudin<sup>3</sup>  
<sup>1</sup>Clinical Pathology Department, Sriwijaya University-Mohammad Hoesin Hospital Palembang, Indonesia,   
<sup>2</sup>Faculty of Medicine, Sriwijaya University, <sup>3</sup>Biochemistry Department, Sriwijaya University

**O5-2 The roles of the stromal cells in the chemotherapy resistance in AML with RTK mutation**  
**Anar Damdinsuren**, Satomi Asai, Hayato Miyachi  
Department of Laboratory Medicine, Tokai University School of Medicine, Japan

**O5-3 Natural killer cell cytotoxicity is influenced by QPY/RAH haplotypes of the GZMB gene**  
**Wataru Oboshi<sup>1</sup>**, Toru Watanabe<sup>2</sup>, Keisuke Hayashi<sup>3</sup>, Takehiro Nakamura<sup>1</sup>,  
Nobuyasu Yukimasa<sup>1</sup>  
<sup>1</sup>Department of Medical Technology, Kagawa Prefectural University of Health Sciences, Kagawa, Japan,   
<sup>2</sup>Department of Clinical Technology, Hyogo College of Medicine Hospital, Hyogo, <sup>3</sup>Department of Clinical Laboratory, Shikoku Central Hospital, Ehime

**O5-4 Clinical significance of autotaxin in the field of hematology**  
**Masako Nishikawa<sup>1</sup>**, Makoto Kurano<sup>1</sup>, Satoshi Shimamoto<sup>2</sup>, Koji Igarashi<sup>2</sup>, Yutaka Yatomi<sup>1</sup>  
<sup>1</sup>Department of Clinical Laboratory Medicine, Graduate School of Medicine, The University of Tokyo, Tokyo,   
Japan, <sup>2</sup>Bioscience Division, TOSOH Corporation, Kanagawa

**O5-5 A case report of extranodal NK/T cell lymphoma, nasal type, with skin involvement manifesting as hydroa vacciniforme**  
**Ching-Fen Yang<sup>1</sup>**, Chih-Yi Hsu<sup>1</sup>, Han-Nan Liu<sup>2</sup>  
<sup>1</sup>Department of Pathology and Laboratory Medicine, Taipei Veterans General Hospital, Taipei, Taiwan,   
<sup>2</sup>Department of Dermatology, Taipei Veterans General Hospital, Taipei

**Chairs: Dobrin A. Svinarov** *Department of Clinical Laboratory and Clinical Pharmacology, Alexander Hospital, Medical University of Sofia, Sofia, Bulgaria*

**Yasuhito Tanaka** *Public University Corporation Nagoya City University, Japan*

**O6-1 Performance evaluation of two kinds of PIVKA II immunoassays in clinical samples**

**Hyon-Suk Kim<sup>1</sup>**, Bo Yeon Kim<sup>1</sup>, Younhee Park<sup>1</sup>, Do Young Kim<sup>2</sup>

<sup>1</sup>*Department of Laboratory Medicine, Yonsei University College of Medicine, Korea,* <sup>2</sup>*Department of Internal Medicine, Yonsei University College of Medicine*

**O6-2 Molecular pathology of fatty liver disease learned from the muscle-liver axis**

**Hiroki Tanaka<sup>1,2</sup>**, Kie Horioka<sup>1</sup>, Takumu Hasebe<sup>2</sup>, Koji Sawada<sup>2</sup>, Katsuhiro Okuda<sup>1</sup>, Masaru Asari<sup>1</sup>, Keiko Shimizu<sup>1</sup>, Hiroshi Shiono<sup>1</sup>, Katsuhiro Ogawa<sup>3</sup>, Katsutoshi Okumura<sup>2</sup>

<sup>1</sup>*Department of Legal Medicine, Asahikawa Medical University, Japan,* <sup>2</sup>*Division of Gastroenterology and Hematology/Oncology, Department of Medicine, Asahikawa Medical University,* <sup>3</sup>*Department of Pathology, Asahikawa Medical University*

**O6-3 TGF- $\beta$  LAP degradation products reflect fibrogenesis in patients with chronic liver disease**

**Hiroshi Yokoyama<sup>1</sup>**, Yoshihiro Mezaki<sup>1,2</sup>, Takahiro Masaki<sup>1</sup>, Mariko Nakamura<sup>1</sup>, Jonghyuk Park<sup>1</sup>, Souichi Kojima<sup>1,3</sup>, Tomokazu Matsuura<sup>1</sup>

<sup>1</sup>*Department of Laboratory Medicine, The Jikei University School of Medicine, Tokyo, Japan,* <sup>2</sup>*Division of Gastroenterology and Hepatology, Department of Internal Medicine, The Jikei University School of Medicine, Tokyo, Japan,* <sup>3</sup>*Micro-signaling Regulation Technology Unit, RIKEN Center for Life Science Technologies, Saitama, Japan*

**O6-4 Ultrasonography findings in human gallbladder mucocoele showing a marked zonal mucus accumulation in the gallbladder**

**Chika Yamada**, Yuko Masaki, Hideyuki Onishi, Masami Terano, Kyoko Imacho, Emi Hara, Hiroko Iizuka, Tatsuhiko Sugao, Yoshihiko Hoshida

*Department of Clinical Pathology, NHO Osaka Minami Medical Center, Kawachinagano, Japan*

**O6-5 <sup>13</sup>C- labeled breath test for quantitative determination of fat absorptive function after pancreatic surgery**

**Masahiko Morifuji<sup>1,2</sup>**, Tomokazu Matsuura<sup>3</sup>, Kouji Nakata<sup>2</sup>, Masamune Shimo<sup>4</sup>

<sup>1</sup>*Department of General Medicine, Tsukuba Central Hospital, Japan,* <sup>2</sup>*Department of Surgery, Division of Medical Science, Graduate School of Biomedical Sciences, Hiroshima University,* <sup>3</sup>*Department of Laboratory Medicine, The Jikei University School of Medicine,* <sup>4</sup>*Department of Laboratory Medicine, Tokatsu Hospital*

**O6-6 S1P is actively metabolized and transported to extracellular spaces with increased receptors expression in colon cancer**

**Uranbileg Baasanjav<sup>1</sup>**, Takeshi Nishikawa<sup>2</sup>, Hitoshi Ikeda<sup>1</sup>, Makoto Kurano<sup>1,5</sup>, Masaya Sato<sup>1</sup>, Daisuke Saigusa<sup>3,5</sup>, Junken Aoki<sup>4,5</sup>, Toshiaki Watanabe<sup>2</sup>, Yutaka Yatomi<sup>1,5</sup>

<sup>1</sup>*Department of Clinical Laboratory Medicine, The University of Tokyo, Tokyo, Japan,* <sup>2</sup>*Surgical Oncology & Vascular Surgery Division, Department of Surgery, The University of Tokyo, Tokyo, Japan,* <sup>3</sup>*Department of Integrative Genomics, Tohoku Medical Megabank Organization, Miyagi, Japan,* <sup>4</sup>*Graduate School of Pharmaceutical Sciences, Tohoku University, Miyagi, Japan,* <sup>5</sup>*Japan Agency for Medical Research and Development, Core Research for Evolutional Science and Technology (AMED-CREST), Tokyo, Japan*

**O6-7 G6PD as a marker for cancer risk and prognosis**

**Chin-An Yang<sup>1,2,3</sup>**, Hsi-Yuan Haung<sup>1</sup>, Cheng-Li Lin<sup>4</sup>, Jan-Gowth Chang<sup>1,3</sup>

<sup>1</sup>*Department of Laboratory Medicine, China Medical University Hospital, Taichung, Taiwan,* <sup>2</sup>*Division of General Pediatrics, China Medical University Childrens Hospital, Taichung, Taiwan,* <sup>3</sup>*College of Medicine, China Medical University, Taichung, Taiwan,* <sup>4</sup>*Management Office for Health Data, China Medical University Hospital, Taichung, Taiwan*

**Chairs:** **Claudio R. Ruiz-Arenas** *Laboratorios Exakta, Puebla, Mexico*  
**Haruhito Kikuchi** *Department of Laboratory Medicine, Keio University School of Medicine, Japan*

**O7-1 A survey on urine total protein measurement standardization among dipstick tests in Japan**

**Yoshihisa Itoh**<sup>1</sup>, **Shigemi Hosogaya**<sup>2</sup>, **Yuriko Kurihara**<sup>2</sup>, **Masayo Tada**<sup>3</sup>, **Ippei Nishimura**<sup>4</sup>, **Masataka Suzuki**<sup>5</sup>, **Hiroshi Watanabe**<sup>6</sup>, **Harutaka Asada**<sup>7</sup>, **Sayuri Yakushiji**<sup>8</sup>, **Yoshiya Takeuchi**<sup>9</sup>, **Kazuo Mori**<sup>10</sup>, **Yuji Sakata**<sup>11</sup>, **Hiroimi Saeki**<sup>12</sup>, **Naohiko Shibuya**<sup>13</sup>, **Masayoshi Abe**<sup>13</sup>, **Katsuhiko Mochizuki**<sup>13</sup>

<sup>1</sup>*Clinical Laboratory, Eiju General Hospital, Life Extension Research Institute, Tokyo, Japan,* <sup>2</sup>*Department of Medical Technology, Tokyo University of Technology,* <sup>3</sup>*Arkray Inc.,* <sup>4</sup>*Wako Pure Chemical Industries, Ltd.,* <sup>5</sup>*Eiken Co. Ltd.,* <sup>6</sup>*Siemens Healthcare Diagnostics K.K.,* <sup>7</sup>*Sanwa Kagaku Kenkyusho CO., Ltd.,* <sup>8</sup>*Roche Diagnostics K.K.,* <sup>9</sup>*Toyo Roshi Kaisha, Ltd.,* <sup>10</sup>*Nittobo Medical Co., Ltd.,* <sup>11</sup>*Beckman Coulter, Inc.,* <sup>12</sup>*Radiometer K.K.,* <sup>13</sup>*Japan Association of Clinical Reagents Industries*

**O7-2 A case report of a patient with acute kidney injury, showing morphological changes in urine sediment tests**

**Yoshifumi Morita**, **Kenichi Shukuya**, **Masami Tanaka**, **Shinji Sone**, **Makoto Kurano**, **Yutaka Yatomi**

*Department of Clinical Laboratory, The University of Tokyo Hospital, Tokyo, Japan*

**O7-3 New practical analysis method reduced and oxidized albumin of rat**

**Beibei Liu**<sup>1</sup>, **Keiko Yasukawa**<sup>1</sup>, **Yeerbolati Alimila**<sup>1</sup>, **Tatsuo Shimosawa**<sup>2</sup>

<sup>1</sup>*Department of Clinical Laboratory, University of Tokyo, Tokyo, Japan,* <sup>2</sup>*International University of Health and Welfare School of Medicine IUHW Mita Hospital Dept. of Clinical Laboratory, Tokyo, Japan*

**O7-4 Anti-C1q antibodies are associated with recurrent pregnancy loss of unknown etiology**

**Kazumasa Ohmura**<sup>1,2</sup>, **Kenji Oku**<sup>2</sup>, **Tamao Kitaori**<sup>3</sup>, **Nobuhiko Takahashi**<sup>1</sup>, **Sumiyoshi Naito**<sup>4</sup>, **Mayumi Sugiura-Ogasawara**<sup>3</sup>, **Tatsuya Atsumi**<sup>2</sup>, **Masahiro Ieko**<sup>1</sup>

<sup>1</sup>*Department of Internal Medicine, Health Sciences University of Hokkaido, Japan,* <sup>2</sup>*Department of Rheumatology, Endocrinology and Nephrology, Hokkaido University Faculty of Medicine and Graduate School of Medicine,* <sup>3</sup>*Department of Obstetrics and Gynecology, Graduate School of Medical Sciences, Nagoya City University,* <sup>4</sup>*Department of Clinical Laboratory, Health Sciences University of Hokkaido*

**O7-5 Serum autotaxin is increased and correlated with thyroid hormones in Graves' disease**

**Takahiro Nojiri**<sup>1</sup>, **Makoto Kurano**<sup>1</sup>, **Kazuki Nakawatari**<sup>1</sup>, **Satoshi Shimamoto**<sup>2</sup>, **Koji Igarashi**<sup>2</sup>, **Shinji Sone**<sup>1</sup>, **Hitoshi Ikeda**<sup>1</sup>, **Yutaka Yatomi**<sup>1</sup>

<sup>1</sup>*Department of Clinical Laboratory, The University of Tokyo Hospital, Tokyo, Japan,* <sup>2</sup>*Bioscience Division, Reagent Development Department, AIA Research Group, TOSOH Corporation*

**O7-6 Common Reference Intervals (C-RIs) in Japan**

**Taeko Hotta**<sup>1,2</sup>, **Hayato Miyachi**<sup>2</sup>, **Kiyoshi Ichihara**<sup>2</sup>, **Yoshikazu Yamamoto**<sup>2</sup>, **Midori Ishibashi**<sup>2</sup>, **Hiroshi Kondou**<sup>2</sup>, **Shigemi Hosogaya**<sup>2</sup>, **Yoshihisa Itoh**<sup>2</sup>, **Toshihiko Okuhara**<sup>2</sup>, **Toshihiko Kawabata**<sup>2</sup>, **Katsuhiko Mochizuki**<sup>2</sup>, **Yuji Sakata**<sup>2</sup>, **Dongchon Kang**<sup>1,2</sup>

<sup>1</sup>*Department of Clinical Chemistry and Laboratory of Medicine, Kyushu University Hospital, Japan,* <sup>2</sup>*JCCLS Committee on Reference Intervals*

## Poster Session

### Poster Set-up and Removal Schedule

Mounting	Thursday, November 16	9:00 – 11:00
Viewing	Thursday, November 16	11:00 – 16:30
	Friday, November 17	9:00 – 17:30
Discussion	Thursday, November 16	16:30 – 17:30
Removal	Saturday, November 18	10:00 – 11:00

### P1 Cancer

- P1-1**      **Effect of adding a preheating step to genomic DNA extraction from formalin-fixed, paraffin-embedded tissue**  
**Arizumi Kikuchi**<sup>1</sup>, Takahiro Sawamura<sup>1</sup>, Kenichi Nonaka<sup>2</sup>  
<sup>1</sup>Daiyukai Research Institute for Medical Science, Japan, <sup>2</sup>Daiyukai General Hospital
- P1-2**      **Optimizing the conditions of fluorescent DNA labeling method using Methyl Green**  
**Ricky W.K. Wu**, H.S. Lam, Y.H. Chiu, Ellie S.M. Chu  
 School of Medical and Health Sciences, Tung Wah College, HK SAR, Hong Kong, China
- P1-3**      **Comparison between immunohistochemical staining method and genetic test for detection of EGFR gene mutation**  
**Harumi Kobayashi**<sup>1</sup>, Ryosuke Kikuchi<sup>1</sup>, Katsuyuki Kato<sup>1</sup>, Yoko Kajiura<sup>1</sup>,  
 Tadashi Matsushita<sup>2</sup>, Shigeo Nakamura<sup>3</sup>  
<sup>1</sup>Department of Medical Technique, Nagoya University Hospital, Japan, <sup>2</sup>Department of Clinical Laboratory, Nagoya University Hospital, <sup>3</sup>Department of Pathology, Nagoya University Hospital
- P1-4**      **Comparison of HER2 expression in primary breast cancer and metastases (Hemera Trial): Final results**  
**Rajko Kavalar**, Vesna Stitic, Tatjana Bujas  
 Department of Pathology, University Medical Centre Maribor, Maribor, Slovenia
- P1-5**      **Pineal neoplasms: Three unusual clinico-pathologic presentations**  
**Ravi Raghavan**, Daniel Jack, William Saukel  
 Department of Pathology, Loma Linda University Medical Center, Loma Linda, CA, USA
- P1-6**      **Whole genome sequencing of family members with the germline EGFR V843I mutation predisposed to lung adenocarcinoma**  
**Kouki Ohtsuka**, Satoko Yamasaki, Satsuki Matsushima, Tomonori Kishino,  
 Hiroaki Ohnishi, Takashi Watanabe  
 Department of Laboratory Medicine, Kyorin University, Tokyo, Japan
- P1-7**      **A case study: Carcinosarcoma of the stomach**  
**Toshikazu Kato**<sup>1,3</sup>, Masamichi Bamba<sup>1</sup>, Ryoji Kushima<sup>2</sup>, Suzuko Moritani<sup>3</sup>, Fumiaki Ochi<sup>4</sup>,  
 Junshin Fujiyama<sup>4</sup>, Mamoru Masuyama<sup>4</sup>, Gen-ichi Kato<sup>1</sup>, Takahisa Nakayama<sup>5</sup>,  
 Hiroyuki Sugihara<sup>5</sup>  
<sup>1</sup>Department of Pathology and Laboratory Medicine, Saiseikai Shiga Hospital, Imperial Gift Foundation Inc., Ritto, Japan, <sup>2</sup>Department of Pathology and Laboratory Medicine, Shiga University of Medical Science, Ohtsu, <sup>3</sup>Department of Diagnostic Pathology, Shiga University of Medical Science, Ohtsu, <sup>4</sup>Department of Surgery, Saiseikai Shiga Hospital, Imperial Gift Foundation Inc., Ritto, <sup>5</sup>Division of Molecular and Diagnostic Pathology, Shiga University of Medical Science, Ohtsu
- P1-8**      **Mitochondrial DNA variations in Malaysian colorectal cancer by next-generation sequencing: A preliminary study**  
**Lai-Meng Looi**<sup>1</sup>, Sze-Looi Song<sup>2</sup>, Phaik-Leng Cheah<sup>1</sup>, Jing Li<sup>1</sup>, Cing-Chai Koh<sup>1</sup>,  
 Hoi-Sen Yong<sup>3</sup>  
<sup>1</sup>Department of Pathology, Faculty of Medicine, University of Malaya, Malaysia, <sup>2</sup>Institute of Ocean and Earth Sciences, University of Malaya, <sup>3</sup>Institute of Biological Sciences, University of Malaya

- P1-9 Malignant transformation of parotid gland oncocytoma: A rare entity in head and neck region**  
**Nordashima Abd Shukor<sup>1</sup>**, Wan Syahira Wanahmadkamal<sup>1</sup>, Suria Hayati Mdpauzi<sup>1</sup>, Amizatul Aini Salleh<sup>1</sup>, Mawaddah Azman<sup>2</sup>  
<sup>1</sup>Pathology Department, National University of Malaysia, Kuala Lumpur, Malaysia, <sup>2</sup>Otorhinolaryngology Department, National University of Malaysia, Kuala Lumpur
- P1-10 The endothelin1 and endothelin receptor A gene polymorphisms increase the risk of developing papillary thyroid carcinoma**  
**Pervin Vural<sup>1</sup>**, A. Fatih Aydin<sup>1</sup>, Semra Dogru-Abbasoglu<sup>1</sup>, Esra Cil<sup>2</sup>, Mujdat Uysal<sup>1</sup>  
<sup>1</sup>Department of Biochemistry, Istanbul Faculty of Medicine, Istanbul University, Istanbul, Turkey, <sup>2</sup>Department of Endocrinology, II. Internal Medicine Clinic, Sisli Etfal Education and Research Hospital, Istanbul
- P1-11 Association of disease progression with gene pathways in Turkish patients with invasive bladder cancer**  
**Sule Seckin<sup>1</sup>**, Canan Kucukgergin<sup>1</sup>, Birsu Cincin<sup>2</sup>, Tzevat Tefik<sup>3</sup>, Oner Sanli<sup>3</sup>, Ismet Nane<sup>3</sup>, Bedia Cakmakoglu<sup>2</sup>  
<sup>1</sup>Department of Biochemistry, Istanbul Faculty of Medicine, Istanbul University, Turkey, <sup>2</sup>Department of Molecular Medicine, Aziz Sancar Experimental Medical Research Institute, <sup>3</sup>Department of Urology, Istanbul Faculty of Medicine, Istanbul University
- P1-12 Preoperative screening of deep vein thrombosis in patients underwent curative surgery for cancer**  
**Yoko Motegi<sup>1,3</sup>**, Takao Kimura<sup>1,2</sup>, Koji Kurosawa<sup>1,2</sup>, Kenya Okada<sup>2</sup>, Kanako Niwa<sup>2</sup>, Takahiro Ikoma<sup>2</sup>, Yuya Sawada<sup>2</sup>, Kazumi Ushiki<sup>2</sup>, Katsuhiko Tsunekawa<sup>1,2</sup>, Osamu Araki<sup>1,2</sup>, Tetsuo Machida<sup>2</sup>, Masami Murakami<sup>1,2</sup>  
<sup>1</sup>Department of Clinical Laboratory Medicine, Gunma University Graduate School of Medicine, Japan, <sup>2</sup>Clinical Laboratory Center, Gunma University Hospital, <sup>3</sup>Integrative Center of General Surgery, Gunma University Hospital
- P1-13 Assessment of a tumor markers panel by electrochemiluminescence method**  
**Maria E. Mendes**, Luciane C. Barcos, Gisele V.C. Fragoso, Vania R.M. Batista, Joyce Nakaema, Nairo M. Sumita  
 Central Laboratory Division, Hospital das Clinicas da Faculdade de Medicina da Universidade de Sao Paulo, Sao Paulo, Brazil
- P1-14 Enhancement of ALA-based photodynamic therapy in sex hormonal dependent cancers: An *in vitro* pilot study**  
**Ellie S.M. Chu<sup>1</sup>**, Zheng Huang<sup>2</sup>, Ricky W.K. Wu<sup>1</sup>  
<sup>1</sup>School of Medical and Health Sciences, Tung Wah College, HKSAR, Hong Kong, China, <sup>2</sup>Biomedical Photonics Center, MOE Lab of Photonics Science and Technology for Medicine, School of OptoElectronic and Information Engineering, Fujian Normal University, Fuzhou, China
- P1-15 Inhibitory effect of lithium on beta-adrenergic induction of D2 in human oligodendrogloma (HOG) cells**  
**Hirota Ishigaki<sup>1,2</sup>**, Osamu Araki<sup>2</sup>, Katsuhiko Tsunekawa<sup>2</sup>, Takao Kimura<sup>2</sup>, Masami Murakami<sup>2</sup>  
<sup>1</sup>Gunma PAZ University, School of Medical Technology, Faculty of Health Science, Japan, <sup>2</sup>Department of Clinical Laboratory Medicine, Gunma University Graduate School of Medicine

## P2 Cardiovascular Diseases

- P2-1 Myeloperoxidase and high sensitive C-reactive protein as inflammatory marker of acute coronary syndrome**  
**Sienny Linawaty**, Tahono, Brigitte Rina Aninda Sidharta  
 Indonesian Association of Clinical Pathology and Laboratory Medicine, Indonesia
- P2-2 The high polymer C-reactive protein emerged in patients with arteriosclerosis**  
**Nobuo Kotajima<sup>1</sup>**, Toshiyuki Tanaka<sup>1</sup>, Masami Murakami<sup>2</sup>, Kiyotaka Fujita<sup>1</sup>  
<sup>1</sup>Gunma PAZ University, School of Medical Technology, Faculty of Health Science, Japan, <sup>2</sup>Department of Clinical Laboratory Medicine, Gunma University Graduate School of Medicine



- P2-3 Inflammatory features, including symptoms and increased serum IL-6 and CRP, in IgG4-related vascular diseases**  
**Satomi Kasashima**<sup>1</sup>, Atsuhiko Kawashima<sup>1</sup>, Fuminori Kasashima<sup>2</sup>, Yasushi Matsumoto<sup>2</sup>, Kengo Kawakami<sup>2</sup>, Masamitsu Endo<sup>2</sup>  
<sup>1</sup>Department of Pathology and Department of Clinical Laboratory, National Hospital Organization, Kanazawa Medical Center, Kanazawa, Japan, <sup>2</sup>Department of Cardiovascular Surgery, National Hospital Organization, Kanazawa Medical Center, Kanazawa, Japan
- P2-4 Level of CKMB, TROPONIN I, and LDH in patients with chest pain complains**  
**Linda L. Rosita**, Arjana AZA Adikazhulhi, Utami U. Mulyaningrum, Rahma R. Yuantari  
 Clinical Pathology Department of Medical Faculty, Universitas Islam Indonesia, Yogyakarta, Indonesia
- P2-5 The count of smudge cells and neutrophil-to-lymphocyte ratio predicted the prognosis of out-of-hospital cardiac arrest**  
**Ming-Jang Su**<sup>1</sup>, Ching-Piao Liu<sup>1</sup>, Wah-Sheng Chong<sup>2</sup>, Jen-Tang Sun<sup>2</sup>, Fang-Yeh Chu<sup>1</sup>  
<sup>1</sup>Department of Clinical Pathology, Far Eastern Memorial Hospital, New Taipei, Taiwan, <sup>2</sup>Department of Emergency Medicine, Far Eastern Memorial Hospital, New Taipei
- P2-6 Balance between angiogenic and anti-angiogenic isoforms of VEGF-A is associated with pulmonary hypertension-subtypes**  
**Ryosuke Kikuchi**<sup>1</sup>, Shigetaka Shimokata<sup>2</sup>, Takahisa Kondo<sup>3</sup>, Tadashi Matsushita<sup>4</sup>, Toyooki Murohara<sup>2</sup>  
<sup>1</sup>Department of Medical Technique, Nagoya University Hospital, Japan, <sup>2</sup>Department of Cardiology, Nagoya University Graduate School of Medicine, <sup>3</sup>Department of Advanced in Cardiopulmonary Disease, Nagoya University Graduate School of Medicine, <sup>4</sup>Department of Clinical Laboratory, Nagoya University Hospital
- P2-7 The effect of acute aerobic exercise on arterial stiffness**  
**Mitsuru Masaki**<sup>1,3</sup>, Kumi Koide<sup>1</sup>, Kumiko Yamamoto<sup>2</sup>, Kayoko Takatsuji<sup>2</sup>, Shunen Kanoh<sup>2</sup>, Miho Fukui<sup>1,3</sup>, Yasunao Wada<sup>2</sup>, Ayako Miyazaki<sup>1</sup>, Ayumi Igaki<sup>2</sup>, Tohru Masuyama<sup>3</sup>, Masahiro Koshihara<sup>1</sup>  
<sup>1</sup>Division of Clinical Laboratory Medicine, Hyogo College of Medicine, Japan, <sup>2</sup>Department of Clinical Laboratory, Hyogo College of Medicine Hospital, <sup>3</sup>Cardiovascular Division, Department of Internal Medicine, Hyogo College of Medicine

## P3 Clinical Chemistry

- P3-1 Biotin interference in Roche Cobas 8000 analyzer: A case report of pseudohyperthyroidism in a patient with renal failure**  
**Ozkan Alatas**<sup>1</sup>, Zeynep Kusku-Kiraz<sup>1</sup>, Birgul Kirel<sup>2</sup>  
<sup>1</sup>Department of Biochemistry, Faculty of Medicine, Eskisehir Osmangazi University, Eskisehir, Turkey, <sup>2</sup>Department of Pediatric Endocrinology, Faculty of Medicine, Eskisehir Osmangazi University, Eskisehir
- P3-2 An automated biochemical analyzer-based method for measuring dipeptidyl peptidase IV (DPP-IV)**  
**Yasuhiko Ohta**<sup>1</sup>, Satoshi Tada<sup>1</sup>, Kinya Tateishi<sup>1</sup>, Koji Murao<sup>2</sup>  
<sup>1</sup>Kagawa Prefectural University of Health Sciences, Japan, <sup>2</sup>Department of Endocrinology and Metabolism, Faculty of Medicine, Kagawa University
- P3-3 Performance characteristics of the Lumipulse G1200 PIVKA-II assay**  
**Wei-Lun Tsai**<sup>1</sup>, Tai-Chun Tsai<sup>1</sup>, Wen-Jin Kuo<sup>1</sup>, I-Wen Chen<sup>1</sup>, Shu-Chu Shiesh<sup>2</sup>  
<sup>1</sup>Department of Pathology, National Cheng Kung University Hospital, Taiwan, <sup>2</sup>Department of Medical Laboratory Science and Biotechnology, National Cheng Kung University, Tainan, Taiwan
- P3-4 Usefulness of ELF, M2BPGi, galectin-3, and sST2 for assessment of liver fibrosis in chronic liver diseases**  
**Mikyoung Park**<sup>1</sup>, Mina Hur<sup>1</sup>, Hee-Won Moon<sup>1</sup>, Hanah Kim<sup>1</sup>, Won Hyeok Choe<sup>2</sup>, Yeo-Min Yun<sup>1</sup>  
<sup>1</sup>Department of Laboratory Medicine, Konkuk University School of Medicine, Seoul, Korea, <sup>2</sup>Department of Internal Medicine, Konkuk University School of Medicine, Seoul, Korea
- P3-5 Cancelled**

- P3-6 Does serum ischemia-modified albumin concentration reflect long-term hypoxia in chronic respiratory disease? A pilot study**  
**Satoshi Kimura<sup>1</sup>**, Hayato Yamaguchi<sup>1</sup>, Yusuke Shikama<sup>2</sup>, Hideatsu Tateno<sup>2</sup>, Takuya Yokoe<sup>2</sup>, Daisuke Inoue<sup>2</sup>, Masaya Kawaguchi<sup>1</sup>, Alejandro Gugliucci<sup>3</sup>  
<sup>1</sup>Department of Laboratory Medicine, Showa University Northern Yokohama Hospital, Yokohama, Japan, <sup>2</sup>Division of Respiratory Disease, Showa University Fujigaoka Hospital, Yokohama, Japan, <sup>3</sup>Glycation, Oxidation and Disease Laboratory, Tuoro University-California, Vallejo, CA, USA
- P3-7 Establishment and clinical utility of a rapid and simple assay for serum trehalase activity**  
**Shou Terada<sup>1</sup>**, Miyuki Sakemoto<sup>2</sup>, Yukiko Kawanobe<sup>2</sup>, Miki Kawano<sup>1,3</sup>, Takiko Tateishi<sup>1,4</sup>, Taeko Hotta<sup>2</sup>, Dongchon Kang<sup>5</sup>, Yuzo Kayamori<sup>6</sup>, Eisaku Hokazono<sup>6</sup>  
<sup>1</sup>Department of Health Sciences, Graduate School of Medical Sciences, Kyushu University, Fukuoka, Japan, <sup>2</sup>Department of Clinical Chemistry and Laboratory Medicine, Kyushu University Hospital, <sup>3</sup>School of Health Sciences at Narita, International University of Health and Welfare, <sup>4</sup>Department of Medical Laboratory Sciences, Junshin Gakuen University, <sup>5</sup>Department of Clinical Chemistry and Laboratory Medicine, Faculty of Medical Sciences, Kyushu University, <sup>6</sup>Department of Health Sciences, Faculty of Medical Sciences, Kyushu University
- P3-8 Endocan: A novel circulating proteoglycan is a marker in Alzheimer's disease?**  
**Filiz Akbiyik<sup>1</sup>**, Hacer Doganvaran<sup>2</sup>, Gurkan Guner<sup>2</sup>, Muhammed Cemal Kizilarlanoglu<sup>2</sup>, Fatih Sumer<sup>2</sup>, Rana Tuna Dogrul<sup>2</sup>, Aykut Sagir<sup>2</sup>, Cemile Ozsurekci<sup>2</sup>, Hatice Caliskan<sup>2</sup>, Cafer Balci<sup>2</sup>, Gozde Sengul Aycicek<sup>2</sup>, Meltem Halil<sup>2</sup>, Mustafa Cankurtaran<sup>2</sup>, Burcu Balam Yavuz<sup>2</sup>  
<sup>1</sup>Department of Medical Biochemistry, Faculty of Medicine, Hacettepe University, Ankara, Turkey, <sup>2</sup>Department of Geriatric Medicine, Faculty of Medicine, Hacettepe University, Ankara, Turkey
- P3-9 Tryptophan metabolism, carbohydrate malabsorption and signs of depression**  
**Enko Dietmar<sup>1,2</sup>**, Wagner Helga<sup>3</sup>, Kriegshaeuser Gernot<sup>1,2</sup>, Brandmayr Wolfgang<sup>4</sup>, Halwachs-Baumann Gabriele<sup>1</sup>, Meinitzer Andreas<sup>2</sup>  
<sup>1</sup>Institute of Clinical Chemistry and Laboratory Medicine, General Hospital Steyr, Steyr, Austria, <sup>2</sup>Clinical Institute of Medical and Laboratory Diagnostics, Medical University of Graz, Graz, Austria, <sup>3</sup>Department of Applied Statistics, Johannes Kepler University Linz, Linz, Austria, <sup>4</sup>Department of Psychiatry and Psychotherapeutic Medicine, General Hospital Steyr, Steyr, Austria
- P3-10 New colorimetric method for estimation of the redox state of human serum albumin**  
**Fumi Yoshitomi<sup>1</sup>**, Hayato Okurano<sup>1</sup>, Sonoko Yoshihiro<sup>1</sup>, Miki Kawano<sup>1,2</sup>, Takiko Tateishi<sup>1,3</sup>, Eisaku Hokazono<sup>4</sup>, Yuzo Kayamori<sup>4</sup>  
<sup>1</sup>Department of Health Sciences, Graduate School of Medical Sciences, Kyushu University, Japan, <sup>2</sup>School of Health Sciences at Narita, International University of Health and Welfare, Japan, <sup>3</sup>Department of Medical Laboratory Science Junshin Gakuen University, Japan, <sup>4</sup>Department of Health Sciences, Faculty of Medical Sciences, Kyushu University, Japan
- P3-11 Understanding the discrepancy in the serum albumin levels measured by BCG and the modified BCP methods**  
**Kazuki Nakajima<sup>1</sup>**, Kenichi Nagai<sup>1</sup>, Yoshimi Muramoto<sup>2</sup>, Makoto Matsushita<sup>1</sup>  
<sup>1</sup>Department of Clinical Chemistry, Saitama Prefectural University Graduate School, Saitama, Japan, <sup>2</sup>Faculty of Health and Medical Care, Saitama Medical University, Saitama
- P3-12 Determination of trace metal levels in the general population of Korea**  
**Hyun-Kyung Park<sup>1</sup>**, Hwan-Sub Lim<sup>1</sup>, Kyoung-Ryul Lee<sup>1</sup>, Hyun-Jun Kim<sup>2</sup>  
<sup>1</sup>Seoul Clinical Laboratories, Korea, <sup>2</sup>Departments of Obstetrics and Gynecology, Konkuk University School of Medicine, Chungju, Korea
- P3-13 QC algorithm for detecting inadequate specimen with contamination of drip infusion solution in the clinical chemistry**  
**Hiroyuki Nozaka<sup>1</sup>**, Erika Ozaki<sup>1</sup>, Hiroki Sazawa<sup>1</sup>, Mei Sasaki<sup>1</sup>, Manabu Nakano<sup>1</sup>, Hideki Takami<sup>1</sup>, Masakatsu Ooura<sup>2</sup>  
<sup>1</sup>Hirosaki University Graduate School of Health Sciences, Japan, <sup>2</sup>CONSYS CO., LTD.
- P3-14 Correlation lactic acid with oxygen partial pressure in critically ill patients with metabolic acidosis**  
**Rismawati Yaswir**, Efrida, Liliriawati, Ellyza Nasrul, Zelly Dia Rofinda, Donaliazarti  
 Department of Clinical Pathology, Faculty of Medicine, University of Andalas, Padang, Indonesia

- P3-15 Urinary biomarkers of lethal/sublethal ionizing radiation doses**  
**Satoru Monzen<sup>1</sup>, Mitsuru Chiba<sup>2</sup>, Yasushi Mariya<sup>3</sup>**  
<sup>1</sup>Department of Radiation Sciences, Hirosaki University Graduate School of Health Sciences, Aomori, Japan, <sup>2</sup>Department of Bioscience and Laboratory Medicine, Hirosaki University Graduate School of Health Sciences, Aomori, <sup>3</sup>Mutsu General Hospital, Aomori
- P3-16 A biomarker of acute radiation syndrome: miR-375-3p increases in mouse serum by exposure to lethal/sublethal dose**  
**Mitsuru Chiba<sup>1</sup>, Satoru Monzen<sup>2</sup>, Yasushi Mariya<sup>2</sup>**  
<sup>1</sup>Department of Bioscience and Laboratory Medicine, Graduate School of Health Sciences, Hirosaki University, Japan, <sup>2</sup>Department of Radiation Sciences, Graduate School of Health Sciences, Hirosaki University
- P3-17 Serum S100A8/A9 is a sensitive biomarker for inflammatory bowel diseases**  
**Kohki Okada<sup>1,2</sup>, Shunsuke Sekiya<sup>3</sup>, Kohsuke Doi<sup>3</sup>, Masaki Ikemoto<sup>4</sup>**  
<sup>1</sup>Department of Clinical Laboratory Science, Shiraiwa Medical Clinic, Osaka, Japan, <sup>2</sup>Department of Clinical Laboratory Science, Faculty of Health Care, Tenri Health Care University, Nara, <sup>3</sup>Research and Development Section, Diagnostic Department, Yamasa Corporation, Chiba, <sup>4</sup>Corporation Faculty of Bioscience, Nagahama Institute of Bio-Science and Technology, Shiga
- P3-18 Comparison of second- and third-generation immunoassays for detection of anti-cyclic citrullinated peptide antibodies**  
**Misuk Ji<sup>1</sup>, Mina Hur<sup>2</sup>, Hee-Won Moon<sup>2</sup>, Mikyoung Park<sup>2</sup>, Yeo-Min Yun<sup>2</sup>, Sang-Heon Lee<sup>3</sup>**  
<sup>1</sup>Department of Laboratory Medicine, Veterans Health Service Medical Center, Seoul, Korea, <sup>2</sup>Department of Laboratory Medicine, Konkuk University School of Medicine, Seoul, Korea, <sup>3</sup>Department of Internal Medicine, Konkuk University School of Medicine, Seoul, Korea
- P3-19 The study of TSH receptor antibody (TRAb) assay using CLEIA method on the AIA-CL2400 Analyzer**  
**Daichi Miyashita<sup>1</sup>, Mika Satou<sup>1</sup>, Kiyomi Nakajima<sup>1</sup>, Sakie Fujii<sup>1</sup>, Tetsuo Machida<sup>1</sup>, Masami Murakami<sup>1,2</sup>**  
<sup>1</sup>Clinical Laboratory Center, Gunma University Hospital, Gunma, Japan, <sup>2</sup>Department of Clinical Laboratory Medicine, Gunma University Graduate School of Medicine
- P3-20 Effect of lipstick on hepatic and renal system of lipstick users in Ile-Ife, Osun Nigeria**  
**Adeyemi A. Adesina, Samuel O. Oyedeji, Esther O. Ugwuegbu**  
 Department of Chemical Pathology, Obafemi Awolowo University Teaching Hospital, Ile-Ife, Osun, Nigeria

## P4 Clinical Physiology

- P4-1 Histological and physiological assessment of small nerve fibers in patients with wild-type transthyretin amyloidosis**  
**Ayane Izaki<sup>1</sup>, Yukako Yanagisawa<sup>1</sup>, Yui Sonoda<sup>1</sup>, Teruaki Masuda<sup>2</sup>, Mitsuharu Ueda<sup>2</sup>, Masayoshi Tasaki<sup>1</sup>, Yukio Ando<sup>2</sup>, Konen Obayashi<sup>1</sup>**  
<sup>1</sup>Department of Morphological and Physiological Sciences, Graduate School of Health Sciences, Kumamoto University, Japan, <sup>2</sup>Department of Neurology, Graduate School of Medical Sciences, Kumamoto University
- P4-2 Electrointestinogram in human descending colon**  
**Yui Sonoda<sup>1</sup>, Ayane Izaki<sup>1</sup>, Yukako Yanagisawa<sup>1</sup>, Masayoshi Tasaki<sup>1</sup>, Teruaki Masuda<sup>2</sup>, Konen Obayashi<sup>1</sup>**  
<sup>1</sup>Department of Morphological and Physiological Sciences, Graduate School of Health Sciences, Kumamoto University, Japan, <sup>2</sup>Department of Neurology, Graduate School of Medical Sciences, Kumamoto University
- P4-3 Evaluation of expanded uncertainty of automatically measured values in standard 12 lead electrocardiograms**  
**Ryuta Okabe, Naoko Ohmura, Takeshi Tomihara, Naoyuki Yokoyama, Keiji Matsuda, Taiji Furukawa**  
 Teikyo University School of Medicine, Japan
- P4-4 Alteration of right ventricular geometry associated with sigmoid-shaped interventricular septum**  
**Kazunori Okada<sup>1</sup>, Sanae Kaga<sup>1</sup>, Kousuke Tsujita<sup>2</sup>, Mizuki Hara<sup>2</sup>, Ayaka Yoshikawa<sup>2</sup>, Yoichi Sakamoto<sup>2</sup>, Nobuo Masauzi<sup>1</sup>, Taisei Mikami<sup>1</sup>**  
<sup>1</sup>Faculty of Health Sciences, Hokkaido University, Japan, <sup>2</sup>Kitanodai Clinic

**P4-5**      **Differentiation between pre- and postcapillary pulmonary hypertension using echocardiographic myocardial strain analysis**  
**Sanae Kaga<sup>1</sup>**, Kazunori Okada<sup>1</sup>, Michito Murayama<sup>2</sup>, Ayako Ichikawa<sup>3</sup>, Masahiro Nakabachi<sup>3</sup>, Hisao Nishino<sup>3</sup>, Shinobu Yokoyama<sup>3</sup>, Mutsumi Nishida<sup>2,3</sup>, Taichi Hayashi<sup>4</sup>, Naoya Asakawa<sup>4</sup>, Hiroyuki Iwano<sup>4</sup>, Satoshi Yamada<sup>4</sup>, Nobuo Masauzi<sup>1</sup>, Ichizo Tsujino<sup>5</sup>, Taisei Mikami<sup>1</sup>  
<sup>1</sup>Faculty of Health Sciences, Hokkaido University, Japan, <sup>2</sup>Diagnostic Center for Sonography, Hokkaido University Hospital, <sup>3</sup>Division of Laboratory and Transfusion Medicine, Hokkaido University Hospital, <sup>4</sup>Department of Cardiovascular Medicine, Faculty of Medicine and Graduate School of Medicine, Hokkaido University, <sup>5</sup>First Department of Medicine, Hokkaido University Hospital

**P4-6**      **Echocardiographic method to estimate pulmonary vascular resistance using pulmonary regurgitation velocity measurement**  
**Daiki Kurokabe<sup>1</sup>**, Sanae Kaga<sup>2</sup>, Kazunori Okada<sup>2</sup>, Michito Murayama<sup>3</sup>, Shinobu Yokoyama<sup>3</sup>, Masahiro Nakabachi<sup>3</sup>, Shingo Tsujinaga<sup>4</sup>, Taichi Hayashi<sup>4</sup>, Naoya Asakawa<sup>4</sup>, Hiroyuki Iwano<sup>4</sup>, Satoshi Yamada<sup>4</sup>, Ichizo Tsujino<sup>5</sup>, Nobuo Masauzi<sup>2</sup>, Taisei Mikami<sup>2</sup>  
<sup>1</sup>Graduate School of Health Sciences, Hokkaido University, Sapporo, Japan, <sup>2</sup>Faculty of Health Sciences, Hokkaido University, <sup>3</sup>Division of Laboratory and Transfusion Medicine, Hokkaido University Hospital, <sup>4</sup>Department of Cardiovascular Medicine, Hokkaido University Graduate School of Medicine, <sup>5</sup>First Department of Medicine, Hokkaido University Hospital

**P4-7**      **An electrophysiological and histological study of pelvic nerve reconstruction and its application to substitute bladder**  
**Yuichiro Cho**, Kenji Sato, Osamu Hoshi  
*Department of Anatomy and Physiological Science, Graduate School of Health Care Sciences, Tokyo Medical and Dental University (TMDU), Tokyo, Japan*

## **P5**      **Diabetes and Insulin Resistance**

**P5-1**      **The relationship between the composition of urolithiasis with obesity, type 2 diabetes mellitus and hypertension**  
**Chih-Chun Chang**, Pin-Hao Huang, Ming-Jang Su, Fang-Yeh Chu  
*Department of Clinical Pathology, Far Eastern Memorial Hospital, New Taipei, Taiwan*

**P5-2**      **Hemoglobine A1C as a marker of estimated glomerular filtration rate in type 2 diabetes mellitus patients**  
**Amiroh Kurniati**  
*Indonesian Association of Clinical Pathology and Laboratory Medicine, Indonesia*

**P5-3**      **Effect of oxidative stress on renal cortical mitophagy during the normoalbuminuric stage of diabetes mellitus**  
**Tadachika Ichioka<sup>1</sup>**, Akemi Imoto<sup>1,2</sup>, Yoshifumi Kurosaki<sup>1,2</sup>, Tomoaki Tsukushi<sup>3</sup>, Susumu Obata<sup>3</sup>, Hideaki Suzuki<sup>4</sup>, Masanori Yokoba<sup>1,2</sup>, Yoshio Kodera<sup>5</sup>, Hideki Ikenaga<sup>6</sup>, Tsuneo Takenaka<sup>7</sup>, Masato Katagiri<sup>1,2</sup>, Takafumi Ichikawa<sup>1,2</sup>, Naohito Ishii<sup>1,2</sup>  
<sup>1</sup>Kitasato University Graduate School of Medical Sciences, Sagamihara, Japan, <sup>2</sup>Kitasato University School of Allied Health Sciences, Sagamihara, Japan, <sup>3</sup>Kitasato University Hospital, Sagamihara, Japan, <sup>4</sup>Kitasato Junior College of Health and Hygienic Sciences, Minamiunuma, Japan, <sup>5</sup>Kitasato University School of Science, Sagamihara, Japan, <sup>6</sup>Seikai, Otawara, Japan, <sup>7</sup>International University of Health and Welfare, Sanno Hospital, Minato-ku, Japan

**P5-4**      **Microbiome study of trachea-oropharynx of diabetic patients**  
**Youngjin Kim<sup>1</sup>**, Jeong-Hyun Choi<sup>2</sup>, Jaejun Lee<sup>1</sup>, Heeyoon Kang<sup>1</sup>, Sun Young Cho<sup>1</sup>, Tae Sung Park<sup>1</sup>, Hee Joo Lee<sup>1</sup>  
<sup>1</sup>Department of Laboratory Medicine, Kyung Hee University School of Medicine, Seoul, Korea, <sup>2</sup>Department of Anesthesiology, Kyung Hee University School of Medicine, Seoul

**P5-5**      **Evaluation of glucose meter in diabetic patient receiving hemodialysis**  
**Jiun-Chang Ke<sup>1</sup>**, Chen-Yu Lee<sup>1</sup>, Jiun-Sheng Shie<sup>1</sup>, Su-Huey Lo<sup>1,2</sup>  
<sup>1</sup>Department of Laboratory Medicine, Taoyuan General Hospital, Ministry of Health and Welfare, Taiwan, <sup>2</sup>Section of Endocrinology/Metabolism, Tao-Yuan General Hospital, Ministry of Health and Welfare, Taiwan

**P5-6**      **Watch out the pitfalls of Hb A1c application: A proposed algorithm to avoid unintended reporting of misleading Hb A1c**  
**Fang-Yeh Chu**, Jung-Li Ho  
*Department of Clinical Pathology, Far Eastern Memorial Hospital, New Taipei, Taiwan*

- P5-7 Low HbA1c level and G6PD deficiency in a regional hospital**  
**Chen-Yu Lee<sup>1</sup>**, Jiun-Chang Ke<sup>1</sup>, Jiun-Sheng Shie<sup>1</sup>, Su-Huey Lo<sup>1,2</sup>  
<sup>1</sup>Department of Laboratory Medicine, Tao-Yuan General Hospital, Ministry of Health and Welfare, Taiwan,  
<sup>2</sup>Section of Endocrinology/Metabolism, Tao-Yuan General Hospital, Ministry of Health and Welfare, Taiwan
- P5-8 The vitamin B12 concentration in Turkish adult population: Association with diabetes and prediabetes**  
**Sema Genc<sup>1</sup>**, Aysegul Telci<sup>1</sup>, Ilhan Satman<sup>2</sup>, Fulya Turker<sup>2</sup>, Yildiz Tutuncu<sup>2</sup>, Selda Celik<sup>2</sup>,  
Nevin Dincag<sup>2</sup>, Kubilay Karsidag<sup>2</sup>, Temel Yilmaz<sup>2</sup>, Beyhan Omer<sup>1</sup>  
<sup>1</sup>Department of Biochemistry, Istanbul Medical Faculty, Istanbul, Turkey, <sup>2</sup>Department of Internal Medicine,  
Division of Endocrinology and Metabolism, Istanbul Medical Faculty
- P5-9 Non-fasting vs. fasting blood samples: Implication of non-fasting blood samples in population screening**  
**Yoon-Hee Lee<sup>1</sup>**, Mina Hur<sup>2</sup>, Hanah Kim<sup>2</sup>, Heesung Kwon<sup>1</sup>, Seok-IL Hong<sup>1</sup>, Hanik Cho<sup>1</sup>  
<sup>1</sup>Medicheck Laboratories, Korea Association of Health Promotion, Cheongju, Korea, <sup>2</sup>Department of Laboratory  
Medicine, Konkuk University School of Medicine, Seoul, Korea
- P5-10 Fasting blood glucose level in central obesity among rural adults of Dlingseng, Bonjoroyo village, Indonesia**  
**Fenty<sup>1</sup>**, Aris Widayati<sup>1</sup>, Lusia Wiwid Wijayanti<sup>2</sup>  
<sup>1</sup>Faculty of Pharmacy, Universitas Sanata Dharma, Yogyakarta, Indonesia, <sup>2</sup>Department of Biology Education,  
Faculty of Teacher & Training Education, Universitas Sanata Dharma, Yogyakarta
- P5-11 The correlation between waist circumference with uric acid, OPG, IL-6, and HMW-Adiponectin in abdominal obesity patient**  
**Maria Immakulata Diah**, Banundari R. H., Purwanto A.P.  
Indonesian Association of Clinical Pathology and Laboratory Medicine, Indonesia
- P5-12 Evaluation of endothelial function in metabolic syndrome: Comparison of biochemical and ultrasonographic methods**  
**Beyhan Omer<sup>1</sup>**, Coskun Umur Oruc<sup>1</sup>, Yunus Emre Akpınar<sup>3</sup>, Shir Khan Amikishiyev<sup>2</sup>,  
Artur Salmaslioglu<sup>3</sup>, Ayse Kubat Uzum<sup>2</sup>, Figen Gurdol<sup>1</sup>  
<sup>1</sup>Department of Biochemistry, Istanbul Faculty of Medicine, University of Istanbul, Istanbul, Turkey,  
<sup>2</sup>Department of Internal Medicine, Division of Endocrinology and Metabolism, Istanbul Medical Faculty,  
<sup>3</sup>Department of Radiology, Istanbul Medical Faculty
- P5-13 Fasting serum insulin levels and insulin resistance influence blood rheology**  
**Takao Kimura<sup>1</sup>**, Katsuhiko Tsunekawa<sup>1</sup>, Osamu Araki<sup>1</sup>, Akihiro Yoshida<sup>1</sup>, Makoto Nara<sup>2</sup>,  
Tetsuo Machida<sup>1</sup>, Masami Murakami<sup>1</sup>  
<sup>1</sup>Department of Clinical Laboratory Medicine, Gunma University Graduate School of Medicine, Japan,  
<sup>2</sup>Infection Control and Prevention Center, Gunma University Hospital

## P6 Endocrinology and Metabolism

- P6-1 Seasonal variation and other factors influence free testosterone levels**  
**Chie Hirayama-Negishi<sup>1</sup>**, Kazumasa Isobe<sup>2</sup>, Hitoshi Oikawa<sup>3</sup>, Keiko Inoue<sup>3</sup>,  
Toru Nanmoku<sup>1</sup>, Yasushi Kawakami<sup>2</sup>  
<sup>1</sup>Division of Laboratory, University of Tsukuba Hospital, Tsukuba, Japan, <sup>2</sup>Department of Laboratory Medicine,  
University of Tsukuba, Tsukuba, Japan, <sup>3</sup>i-Laboratory LLP, Tsukuba, Japan
- P6-2 The trends of utilization in bone turnover marker tests in Korea from 2012 to 2016**  
**Anna Lee**, Hwan-Sub Lim, Kyoung-Ryul Lee  
Seoul Clinical Laboratories, Seoul, Korea
- P6-3 Expression of type 2 iodothyronine deiodinase in NHost is stimulated by CGRP and suppressed by dexamethasone**  
**Takuya Omodaka<sup>1</sup>**, Osamu Araki<sup>2</sup>, Katsuhiko Tsunekawa<sup>2</sup>, Akihiro Yoshida<sup>2</sup>,  
Takao Kimura<sup>2</sup>, Makoto Nara<sup>2</sup>, Takashi Ohsawa<sup>1</sup>, Hirotaka Chikuda<sup>1</sup>, Masami Murakami<sup>2</sup>  
<sup>1</sup>Department of Orthopaedic Surgery, Gunma University Graduate School of Medicine, Gunma, Japan,  
<sup>2</sup>Department of Clinical Laboratory Medicine, Gunma University Graduate School of Medicine, Gunma

- P6-4 Molecular mechanism of energy expenditure in murine skeletal muscle cells**  
**Larasati Martha**, Osamu Araki, Hirotaka Ishigaki, Takao Kimura, Masami Murakami  
*Department of Clinical Laboratory Medicine, Graduate School of Medicine, Gunma University, Gunma, Japan*
- P6-5 Effect of three different doses of vitamin D3 supplementation on serum 25(OH)D changes among epilepsys: Randomized study**  
**Poranee Ganokroj<sup>1</sup>**, Natnicha Houngngam<sup>2</sup>, Lalita Wattanachanya<sup>2</sup>  
<sup>1</sup>*Department of Laboratory Medicine, Faculty of Medicine, Chulalongkorn University, Thailand.* <sup>2</sup>*Division of Endocrinology and Metabolism, Department of Medicine, Faculty of Medicine, Chulalongkorn University*

## P7 Genetic Analysis

- P7-1 Impact of 5-HTTLPR and COMT gene polymorphism on gastrointestinal dysfunction in FAP ATTR V30M**  
**Yukako Yanagisawa**, Ayane Izaki, Yui Sonoda, Masayoshi Tasaki, Konen Obayashi  
*Department of Morphological and Physiological Sciences, Graduate School of Health Sciences, Kumamoto University, Kumamoto, Japan*
- P7-2 The first patient with sporadic X-linked intellectual disability with de novo ZDHHC9 mutation identified by targeted NGS**  
**Soyoung Shin**, Joonhong Park  
*Department of Laboratory Medicine, College of Medicine, The Catholic University of Korea, Seoul, Korea*
- P7-3 Levels of circulating miRNA 122 and their correlation with hematologic variables**  
**Satoshi Fujii<sup>1,2</sup>**, Sri Suryo Adiyanti<sup>1</sup>, Katsuya Ikuta<sup>3</sup>, Takashi Okuyama<sup>2</sup>, Noriyasu Niizeki<sup>2</sup>, Hiroyuki Takahashi<sup>2</sup>, Yoshie Kawahara<sup>2</sup>, Yumi Watanabe<sup>2</sup>, Atsushi Ito<sup>2</sup>, Yutaka Tomoda<sup>2</sup>, Isao Kawabata<sup>2</sup>, Kazumi Akasaka<sup>2</sup>  
<sup>1</sup>*Department of Laboratory Medicine, Asahikawa Medical University, Japan,* <sup>2</sup>*Medical Laboratory and Blood Center, Asahikawa Medical University Hospital,* <sup>3</sup>*Division of Gastroenterology and Hematology/Oncology, Department of Medicine, Asahikawa Medical University*

## P8 Hematology

- P8-1 Beta-carotene levels in serum correlate with monocyte counts in blood**  
**Asami Naito**, Kazumasa Isobe, Yasushi Kawakami  
*Faculty of Medicine, University of Tsukuba, Ibaraki, Japan*
- P8-2 Automated notification system for Jordans' anomaly with automatic hematology analyzer**  
**Akira Suzuki<sup>1</sup>**, Tohru Inaba<sup>2</sup>, Ken-Ichi Hirano<sup>1</sup>  
<sup>1</sup>*Laboratory of Cardiovascular Disease, Novel, Non-Invasive, and Nutritional Therapeutics (CNT), Graduate School of Medicine, Osaka University, Osaka, Japan,* <sup>2</sup>*Department of Infection Control and Laboratory Medicine, Kyoto Prefectural University of Medicine, Kyoto, Japan*
- P8-3 Process of changes in blood cell count in peripheral blood samples stored with antioxidants and iron chelators**  
**Kana Nanato<sup>1</sup>**, Misaki Goto<sup>2</sup>, Rie Maeda<sup>3</sup>, Kotomi Hashi<sup>4</sup>, Kanae Sugano<sup>5</sup>, Kiyotaka Nishi<sup>6</sup>, Minrong Shao<sup>7</sup>, Mai Yamamoto<sup>1</sup>, Keigo Kono<sup>1</sup>, Kazunori Okada<sup>8</sup>, Sanae Kaga<sup>8</sup>, Nobuo Masauzi<sup>8</sup>  
<sup>1</sup>*Graduate School of Health Sciences, Hokkaido University, Japan,* <sup>2</sup>*Department of Clinical Laboratory, Sapporo Hokuyu Hospital,* <sup>3</sup>*Department of Clinical Laboratory, KKR Sapporo Medical Center,* <sup>4</sup>*Daiichi Kishimoto Medical Laboratory Center,* <sup>5</sup>*Department of Clinical Laboratory, NTT East Japan Sapporo Hospital,* <sup>6</sup>*Teine Keijin-kai Hospital,* <sup>7</sup>*Department of Health Sciences, School of Medicine, Hokkaido University,* <sup>8</sup>*Faculty of Health Sciences, Hokkaido University*
- P8-4 Quantitative distinction of neutrophil alkaline phosphatase score through texture analysis**  
**Mai Yamamoto<sup>1</sup>**, Satoru Murakami<sup>2</sup>, Keigo Kono<sup>1</sup>, Ruka Hayata<sup>3</sup>, Kanae Sugano<sup>4</sup>, Kana Nanato<sup>1</sup>, Minrong Shao<sup>5</sup>, Kazunori Okada<sup>6</sup>, Sanae Kaga<sup>6</sup>, Nobuo Masauzi<sup>6</sup>  
<sup>1</sup>*Graduate School of Health Sciences, Hokkaido University, Sapporo, Japan,* <sup>2</sup>*Department of Clinical Laboratory, Japanese Red Cross Hokkaido Block Blood Center, Sapporo,* <sup>3</sup>*Department of Clinical Laboratory, KKR Sapporo Medical Center, Sapporo,* <sup>4</sup>*Department of Clinical Laboratory, NTT East Sapporo Hospital, Sapporo,* <sup>5</sup>*Department of Health Sciences, School of Medicine, Hokkaido University, Sapporo,* <sup>6</sup>*Department of Medical Laboratory Science, Faculty of Health Sciences, Hokkaido University, Sapporo*

- P8-5 Setting of the new standard value of T lymphocyte subset in healthy subjects over the age of 60 years**  
**Yuka Fujimoto-Satoh**<sup>1</sup>, Hatsue Ogawara<sup>1</sup>, Tomoichirou Asami<sup>1</sup>, Nobuo Kotajima<sup>1</sup>, Hirofumi Kitamura<sup>2</sup>, Yoshiharu Tokita<sup>3</sup>, Masumi Yanagawa<sup>4</sup>, Tetsuo Machida<sup>5</sup>, Masami Murakami<sup>5</sup>  
<sup>1</sup>Faculty of Health Science, Gunma PAZ College, Takasaki, Japan, <sup>2</sup>Department of Clinical Laboratory, Hotaka Hospital, Tone-gun, Japan, <sup>3</sup>Gunma University Graduate School of Health Sciences, Maebashi, Japan, <sup>4</sup>NPO Gundaiclub, Maebashi, Japan, <sup>5</sup>Department of Clinical Laboratory, Gunma University Hospital, Maebashi, Japan
- P8-6 Evaluation of erythrocyte sedimentation rate measurement using starred ST**  
**Hubertus H. Hayuanta**, Agus S. Kosasih, Lyana Setiawan, Christine Sugiarto, Parida Aryani, Purbo Susilo  
*Dharmais Cancer Hospital, Indonesia*
- P8-7 Activation of platelets in the splenic red pulp induced by hypothermia**  
**Kie Horioka**<sup>1</sup>, Hiroki Tanaka<sup>1</sup>, Katsuhiro Okuda<sup>1</sup>, Masaru Asari<sup>1</sup>, Keiko Shimizu<sup>1</sup>, Hiroshi Shiono<sup>1</sup>, Katsutoshi Ogawa<sup>2</sup>  
<sup>1</sup>Department of Legal Medicine, Asahikawa Medical University, Japan, <sup>2</sup>Department of Pathology, Asahikawa Medical University
- P8-8 The application of a molecular clonality assay for assessing bone marrow involvement of B cell lymphomas**  
**Hyeon-Ho Lim**, In-Hwa Jeong, Gyu-Dae An, Kwang-Sook Woo, Kyeong-Hee Kim, Jeong-Man Kim, Jin-Yeong Han  
*Department of Laboratory Medicine, Dong-A University College of Medicine, Busan, Korea*
- P8-9 Experiences in promoting the quality of detecting plasma cell myeloma at a medical center in Taiwan**  
**Kai Pei Huang**, Ting-Chung Hung, Li-Ching Wu  
*Department of Pathology, Chi-Mei Medical Center, Tainan, Taiwan*
- P8-10 Iron overload effects on liver function, kidney function and hemoglobin in  $\beta$  thalassemia major patients**  
**Rini Riyanti**<sup>1,2</sup>, Muhammad Ali Shodikin<sup>3,4</sup>, Lyanita Tantri<sup>1</sup>, Kurnia Elka Vidyarni<sup>1</sup>  
<sup>1</sup>Laboratorium of Clinical Pathology, Medical Faculty of Jember University, Jember, Indonesia, <sup>2</sup>Clinical Pathology Department, Dr. Soebandi General Hospital, Jember, Indonesia, <sup>3</sup>Laboratorium of Microbiology, Medical Faculty of Jember University, Jember, Indonesia, <sup>4</sup>Pediatric Department, Dr. Soebandi General Hospital, Jember, Indonesia
- P8-11 The role of mean platelet volume as detection marker in clinical acute appendicitis**  
**Phey Liana**<sup>1</sup>, Maria Lisa Wijaya<sup>2</sup>, Susilawati<sup>1</sup>  
<sup>1</sup>Clinical Pathology Department, Sriwijaya University-Mohammad Hoesin Hospital Palembang, Indonesia, <sup>2</sup>Faculty of Medicine, Sriwijaya University
- P8-12 Immune checkpoint polymorphisms affect the susceptibility and clinical features of chronic immune thrombocytopenia**  
**Tetsuhiro Kasamatsu**<sup>1</sup>, Rumi Ino<sup>1</sup>, Yuya Kitamura<sup>1</sup>, Kazuki Honma<sup>1</sup>, Noriyuki Takahashi<sup>1</sup>, Nanami Gotoh<sup>1</sup>, Makiko Takizawa<sup>2</sup>, Akihiko Yokohama<sup>3</sup>, Hiroshi Handa<sup>2</sup>, Takayuki Saitoh<sup>1</sup>, Hirokazu Murakami<sup>1</sup>  
<sup>1</sup>Department of Laboratory Sciences, Graduate School of Health Sciences, Gunma University, Maebashi, Gunma, Japan, <sup>2</sup>Department of Hematology, Gunma University Hospital, Maebashi, Gunma, <sup>3</sup>Blood Transfusion Service, Gunma University Hospital, Maebashi, Gunma
- P8-13 Utility of reticulocyte parameters for the diagnosis of hereditary spherocytosis**  
**Ruchee Khanna**, Athira Sasidharan, Chethan Manohar  
*Kasturba Medical College, Karnataka, India*
- P8-14 The Hema-Plot: A novel diagnostic tool for therapy monitoring and differential diagnosis of anemic patients**  
**Andreas Weimann**  
*Labor Berlin - Charité Vivantes GmbH, Berlin, Germany*

- P9-1 Clinical significance of serum survivin levels in hematologic malignancies**  
**Machiko Kawamura**<sup>1,3</sup>, Junko Okabe-Kado<sup>2</sup>, Nobuko Kubota<sup>1</sup>, Yasufumi Kobayashi<sup>1</sup>, Nobuo Maseki<sup>1</sup>, Yumiko Taguchi<sup>3</sup>, Toshihiro Iwata<sup>3</sup>, You Nishimura<sup>4</sup>, Masafumi Kurosumi<sup>4</sup>, Yasuhiko Kaneko<sup>2</sup>  
<sup>1</sup>Department of Hematology, Saitama Cancer Center, Japan, <sup>2</sup>Research Institute for Clinical Oncology, Saitama Cancer Center, <sup>3</sup>Department of Clinical Laboratory, Saitama Cancer Center, <sup>4</sup>Department of Pathology, Saitama Cancer Center
- P9-2 A case of Burkitt lymphoma found in a pregnant woman and diagnosed by ascitic material**  
**Masamichi Bamba**<sup>1</sup>, Toshikazu Kato<sup>1,2</sup>, Suzuko Moritani<sup>2</sup>, Ryoji Kushima<sup>2,3</sup>, Narumi Shimamura<sup>1</sup>, Katsuya Maeda<sup>1</sup>, Etsuko Kambayashi<sup>1</sup>, Toshihiro Nishino<sup>1</sup>, Masami Ueda<sup>1</sup>, Ai Ohama<sup>4</sup>, Kenji Hasegawa<sup>4</sup>, Gen-ichi Kato<sup>1,4</sup>, Tadao K. Kobayashi<sup>5</sup>, Hiroyuki Sugihara<sup>6</sup>  
<sup>1</sup>Center of Diagnostic Pathology, Saiseikai Shiga Hospital, Imperial Gift Foundation Inc., Ritto, Japan, <sup>2</sup>Department of Diagnostic Pathology, Shiga University Hospital, Ohtsu, <sup>3</sup>Department of Clinical Laboratory Medicine, Shiga University of Medical Science, Ohtsu, <sup>4</sup>Center of Clinical Laboratory Medicine, Saiseikai Shiga Hospital, Imperial Gift Foundation Inc., Ritto, <sup>5</sup>Cancer Education and Research Center, Graduate School of Medicine, Osaka University, Suita, <sup>6</sup>Department of Molecular Diagnostic Pathology, Shiga University of Medical Science, Ohtsu
- P9-3 Spurious hypoxemia due to hyperleukocytosis: Report of one case**  
**Anna G. Barindelli**  
 Clinical Pathology Laboratory, University of Uruguay, Uruguay
- P9-4 Novel fatty acid oxidation inhibitor avocatin B increases chemosensitivity of AML cells in the presence of BM adipocytes**  
**Haeun Yang**<sup>1,2</sup>, Kazumasa Sekihara<sup>1,2</sup>, Kaori Saito<sup>1</sup>, Takashi Miida<sup>1</sup>, Yoko Tabe<sup>1</sup>  
<sup>1</sup>Department of Clinical Laboratory Medicine, Juntendo University Graduate School of Medicine, Tokyo, Japan, <sup>2</sup>Leading Center for the Development and Research of Cancer Medicine, Juntendo University Graduate School of Medicine, Tokyo, Japan
- P9-5 mTOR/XPO1 dual inhibition represses pro-survival metabolism and induces antitumor effects on human mantle cell lymphoma**  
**Kazumasa Sekihara**<sup>1,2</sup>, Kaori Saitoh<sup>1</sup>, Haeun Yang<sup>1,2</sup>, Takashi Miida<sup>1</sup>, Yoko Tabe<sup>1,3,4</sup>  
<sup>1</sup>Department of Clinical Laboratory Medicine, Juntendo University Graduate School of Medicine, Tokyo, Japan, <sup>2</sup>Leading Center for the Development and Research of Cancer, Juntendo University Graduate School of Medicine, Tokyo, <sup>3</sup>Department of Next Generation Hematology Laboratory Medicine, Juntendo University Graduate School of Medicine, Tokyo, <sup>4</sup>Section of Molecular Hematology and Therapy, Department of Leukemia, The University of Texas MD Anderson Cancer Center, Houston
- P9-6 CAGE sequencing reveals alterations of the transcriptional signatures of FLT3-ITD with secondary TKD mutations in AML**  
**Kotoko Yamatani**<sup>1</sup>, Kazumasa Sekihara<sup>1,2</sup>, Kaori Saitoh<sup>1</sup>, Haeun Yang<sup>1,2</sup>, Takashi Miida<sup>1</sup>, Yoko Tabe<sup>1,3</sup>  
<sup>1</sup>Department of Clinical Laboratory Medicine, Juntendo University, Tokyo, Japan, <sup>2</sup>Leading Center for the Development and Research of Cancer Medicine, Juntendo University, Tokyo, <sup>3</sup>Section of Molecular Hematology and Therapy, Department of Leukemia, The University of Texas MD Anderson Cancer Center, Houston

- P10-1 Evaluation of the automated blood bank system IH-500 for ABO-RhD Blood Typing**  
**Kyeongmi Kim**, Sejung Oh, Myungseo Kang, Jiyoung Huh  
 Department of Laboratory Medicine, CHA Bundang Medical Center, CHA University, Korea
- P10-2 A monitoring and improvement program for 4-hour transfusion completion rate - A case at a teaching hospital in Taiwan**  
**Frank Lien**  
 Department of Laboratory Medicine, Chiayi Chang Gung Memorial Hospital, Taiwan
- P10-3 Correlation between free hemoglobin level with erythrocyte-derived microparticles in stored packed red cells**  
**Zelly Dia Rofinda**, Dian Pertiwi, Efrida, Rismawati Yaswir  
 Clinical Pathology Department of Medical Faculty of Andalas University, Padang, Indonesia



**P10-4 Enhance the security of blood transfusion using healthcare failure modes and effects analysis**

**Yun-Ching Chen**, Tai-Cheng Li, Cai-Wen Liu, Zheng-Hao Lin, Fang-Yeh Chu  
*Far Eastern Memorial Hospital, New Taipei City, Taiwan*

**P10-5 Use of post centrifugal plasma filtration to desensitizing donor-specific antibodies in heart and lung transplantation**

**Hyun-Ji Lee<sup>1</sup>**, Kyung-Hwa Shin<sup>2</sup>, Duyeal Song<sup>1</sup>, Sun-Min Lee<sup>1</sup>, In-Suk Kim<sup>1</sup>,  
Chulhun L. Chang<sup>1</sup>, Hyung-Hoi Kim<sup>2</sup>

<sup>1</sup>*Department of Laboratory Medicine, Pusan National University Yangsan Hospital, Yangsan, Korea,*

<sup>2</sup>*Department of Laboratory Medicine, Pusan National University Hospital, Pusan, Korea*

**P11 Hemostasis**

**P11-1 HSP72 and anti-HSP72 antibodies control platelet aggregation induced by platelet activators in rats**

**Hideaki Suzuki<sup>1</sup>**, Yuko Kosuge<sup>1</sup>, Koji Kobayashi<sup>1</sup>, Yasuyuki Igarashi<sup>1</sup>, Yuuichi Sasaoka<sup>1</sup>,  
Fumitaka Kawakami<sup>2</sup>, Rei Kawashima<sup>2</sup>, Akemi Imoto<sup>2</sup>, Yoshifumi Kurosaki<sup>2</sup>, Naohito Ishii<sup>2</sup>,  
Naoyoshi Aoyama<sup>3</sup>, Kazuhiko Ishihara<sup>1</sup>, Takafumi Ichikawa<sup>2</sup>

<sup>1</sup>*Department of Medical Technology, Kitasato Junior College of Health and Hygienic Sciences, Niigata, Japan,* <sup>2</sup>*Department of Regulation Biochemistry, Kitasato University Graduate School of Medical Sciences, Kanagawa,* <sup>3</sup>*Research and Development Center for New Medical Frontiers, Department of Comprehensive Medicine, Division of Internal and Emergency Medicine, Kitasato University School of Medicine, Kanagawa*

**P11-2 Evaluation of a commercial ELISA kit “ZYMUTEST Anti VIII IgG MonoStrip” for the detection of factor VIII antibodies**

**Masato Matsuda<sup>1</sup>**, Masato Moriyama<sup>2</sup>, Takeshi Suzuki<sup>3</sup>, Yutaka Komiyama<sup>3</sup>,  
Tsukasa Suetake<sup>3</sup>, Chihaya Imai<sup>4</sup>, Takayuki Matsuto<sup>5</sup>, Misao Takano<sup>1</sup>, Yoshiki Hoshiyama<sup>1</sup>,  
Hirohito Sone<sup>6</sup>

<sup>1</sup>*Medical Laboratory Division, Niigata University Medical and Dental Hospital, Japan,* <sup>2</sup>*Department of Medical Oncology, Niigata University Graduate School of Medical and Dental Sciences,* <sup>3</sup>*Sysmex Corporation,* <sup>4</sup>*Department of Pediatrics, Niigata University Graduate School of Medical and Dental Sciences,* <sup>5</sup>*Department of Clinical Preventive Medicine, Niigata University Graduate School of Medical and Dental Sciences,* <sup>6</sup>*Department of Hematology, Endocrinology and Metabolism, Niigata University Graduate School of Medical and Dental Sciences*

**P11-3 Analysis of acquired dysfibrinogenemia caused by IgA monoclonal gammopathy with anaphylactoid purpura**

**Shinpei Arai<sup>1</sup>**, Yuka Takezawa<sup>1</sup>, Saki Mukai<sup>1</sup>, Ritsuko Nakagoshi<sup>1</sup>, Akari Miyazaki<sup>1,2</sup>,  
Nau Ishimine<sup>1</sup>, Kenji Kawasaki<sup>1</sup>, Chiaki Taira<sup>3</sup>, Mitsutoshi Sugano<sup>1</sup>, Takayuki Honda<sup>1,2</sup>,  
Nobuo Okumura<sup>3,4</sup>

<sup>1</sup>*Department of Laboratory Medicine, Shinshu University Hospital, Japan,* <sup>2</sup>*Department of Laboratory Medicine, Graduate School of Medicine, Shinshu University,* <sup>3</sup>*Department of Health and Medical Sciences, Graduate School of Medicine, Shinshu University,* <sup>4</sup>*Laboratory of Clinical Chemistry and Immunology, Department of Biomedical Laboratory Sciences, School of Health Sciences, Shinshu University, Matsumoto, Japan*

**P11-4 New evaluation test for direct oral factor Xa inhibitors using diluted prothrombin time**

**Sumiyoshi Naito<sup>1,4</sup>**, Masahiro Ieko<sup>2</sup>, Takeshi Suzuki<sup>2,6</sup>, Mika Yoshida<sup>1</sup>, Kazumasa Omura<sup>2</sup>,  
Nobuhiko Takahashi<sup>2</sup>, Mitsuru Moriya<sup>1,3</sup>, Nobutaka Wakamiya<sup>4</sup>, Ichiro Sakuma<sup>5</sup>

<sup>1</sup>*Department of Clinical Laboratory, Health Sciences University of Hokkaido Hospital, Japan,* <sup>2</sup>*Department of Internal Medicine, School of Dentistry, Health Sciences University of Hokkaido,* <sup>3</sup>*Department of Internal Medicine, Health Sciences University of Hokkaido Hospital,* <sup>4</sup>*Department of Microbiology and Immunochemistry, Asahikawa Medical University,* <sup>5</sup>*Caress Sapporo Hokko Memorial Clinic, Cardiovascular Medicine, Sapporo,* <sup>6</sup>*Sysmex Corporation*

**P11-5 Results of a multi-laboratory surveillance on blood coagulation: Focused on discrepancies of the assay for fibrinogen**

**Kagehiro Amano<sup>1</sup>**, Marie Komori<sup>2</sup>, Hiroyuki Sunaga<sup>2</sup>, Katsuyuki Fukutake<sup>1</sup>

<sup>1</sup>*Department of Laboratory Medicine, Tokyo Medical University, Tokyo, Japan,* <sup>2</sup>*Sekisui Medical Co., Ltd., Tokyo*

**P11-6 Evaluation of the improved APTT measurement reagent**

**Ayako Izumi**, Madoka Inoue, Saki Kitazawa, Masaki Hayakawa, Tetsuo Machida,  
Hiromi Koiso, Masami Murakami

*Clinical Laboratory Center, Gunma University Hospital, Gunma, Japan*

- P11-7 Ferritin and D-dimer levels in cerebrospinal fluid as a biomarker of Subarachnoid Hemorrhage: A case report**  
**Adriana G. Pose**, Anna G. Barindelli, Gabriela Villanueva  
*Prof Adpto Dpto Laboratorio Clinico, Hospital de Clinicas, Uruguay*
- P11-8 The changes of coagulation parameters in plasma samples reflecting different hematocrit values**  
**Sebahat Ozdem<sup>1</sup>**, Ikbal O. Kucukcetin<sup>1</sup>, Gultekin Yuce<sup>1</sup>, Sadi S. Ozdem<sup>2</sup>  
<sup>1</sup>*Department of Biochemistry, Akdeniz University School of Medicine, Turkey,* <sup>2</sup>*Department of Pharmacology, Akdeniz University School of Medicine*

## P12 Microbiology: Drug Resistance

- P12-1 Systemic analysis of the mecA gene using a bioinformatics tool**  
**Shin-Yi Tsai<sup>1,2,3</sup>**, Fu-Chieh Chang<sup>4</sup>, Kevinsheng-Kai Ma<sup>2</sup>, Cheng-Wei Hsu<sup>2</sup>, Po-Ya Tung<sup>2,3</sup>, Yan-Jiun Hung<sup>2,3</sup>, Yi-Ting Chou<sup>2</sup>, Chien-Feng Kuo<sup>5</sup>  
<sup>1</sup>*Johns Hopkins University Baltimore, USA,* <sup>2</sup>*Department of Laboratory Medicine, Mackay Memorial Hospital, Taipei, Taiwan,* <sup>3</sup>*Department of Medicine, Mackay Medical College, New Taipei City, Taiwan,* <sup>4</sup>*Infection Control Center, Mackay Memorial Hospital, Taipei, Taiwan,* <sup>5</sup>*Department of Infectious Disease, Mackay Memorial Hospital, Taipei, Taiwan*
- P12-2 The evaluation of “Mastdiscs Carba plus” for differentiation of carbapenemase-producing Enterobacteriaceae**  
**Satomi Takei**, Ayako Nakamura, Shigeki Misawa, Takashi Horii, Akimichi Ohsaka  
*Department of Clinical Laboratory, Juntendo University Hospital, Tokyo, Japan*
- P12-3 Molecular and epidemiological characteristics of IMP-1 producing *K. pneumoniae* in a university hospital in Japan**  
**Hiromi Yamakawa<sup>1,2</sup>**, Kosuke Kosai<sup>1</sup>, Norihiko Akamatsu<sup>1</sup>, Junichi Matsuda<sup>1</sup>, Norihito Kaku<sup>2</sup>, Naoki Uno<sup>2</sup>, Hiroo Hasegawa<sup>1</sup>, Katsunori Yanagihara<sup>2</sup>  
<sup>1</sup>*Department of Laboratory Medicine, Nagasaki University Hospital, Nagasaki, Japan,* <sup>2</sup>*Department of Laboratory Medicine, Nagasaki University Graduate School of Biomedical Sciences, Nagasaki*
- P12-4 Cancelled**
- P12-5 The *Clostridium perfringens* RelA and DTD control sporulation**  
**Ryoichi Saito<sup>1,2</sup>**, Mahfuzur R. Sarker<sup>2</sup>  
<sup>1</sup>*Department of Microbiology and Immunology, Field of Applied Laboratory Science, Graduate School of Health Care Sciences, Tokyo Medical and Dental University, Japan,* <sup>2</sup>*Department of Biomedical Sciences, College of Veterinary Medicine, Oregon State University*
- P12-6 Comparing the various diagnostic techniques to differentiate diagnose protothecosis**  
**Chien-Feng Kuo<sup>1</sup>**, Ning Chuang<sup>2,3</sup>, Po-Ya Tung<sup>2,3</sup>, Kai-Lan Chang<sup>2,3</sup>, Hsiang-Ting Chen<sup>2,3</sup>, Yu-Hung Wu<sup>3,5</sup>, Shin-Yi Tsai<sup>2,3,4</sup>  
<sup>1</sup>*Department of Infectious Disease, Mackay Memorial Hospital, Taipei, Taiwan,* <sup>2</sup>*Department of Laboratory Medicine, Mackay Memorial Hospital, Taipei, Taiwan,* <sup>3</sup>*Department of Medicine, Mackay Medical College, New Taipei City, Taiwan,* <sup>4</sup>*Johns Hopkins University, Baltimore, MD,* <sup>5</sup>*Department of Dermatology, Mackay Memorial Hospital, Taipei, Taiwan*
- P12-7 Intraabdominal infection (IAI)**  
**Ika Priatni<sup>1</sup>**, Tonny Loho<sup>2</sup>  
<sup>1</sup>*Department of Clinical Pathology, University of Indonesia/ Cipto Mangunkusumo General Hospital-Persahabatan Hospital, Jakarta, Indonesia,* <sup>2</sup>*Department of Clinical Pathology, University of Indonesia/ Cipto Mangunkusumo General Hospital, Jakarta*

## P13 Microbiology: Fungus, etc.

- P13-1 The clinical study of Nocardiosis in a college hospital**  
**Yukimasa Ooi<sup>1</sup>**, Tomohiro Higashiyama<sup>1</sup>, Toshiyuki Ikemoto<sup>2</sup>, Yoko Matsumura<sup>2</sup>, Toyofumi Nakanishi<sup>1</sup>, Akira Ukimura<sup>1</sup>, Yoshikatsu Okada<sup>2</sup>  
<sup>1</sup>*Department of Infection Control and Prevention, Osaka Medical College Hospital, Osaka, Japan,* <sup>2</sup>*Department of Clinical Laboratory Medicine, Osaka Medical College Hospital, Osaka*

- P13-2 Eosinophil extracellular traps are abundant in the bronchial mucus plugs of patients with ABPA**  
**Mineyo Fukuchi<sup>1</sup>**, Shigeharu Ueki<sup>1</sup>, Masahide Takeda<sup>1</sup>, Ayumi Omokawa<sup>1</sup>, Tomoo Saga<sup>1</sup>, Akira Hebisawa<sup>2</sup>, Koichiro Asano<sup>3</sup>, Josiane Neves<sup>4</sup>, Makoto Hirokawa<sup>1</sup>  
<sup>1</sup>Department of General Internal Medicine and Clinical Laboratory Medicine, Akita University Graduate School of Medicine, Akita, Japan, <sup>2</sup>Clinical Research Center and Pathology Division, National Hospital Organization Tokyo National Hospital, Tokyo, Japan, <sup>3</sup>Division of Pulmonary Medicine, Department of Medicine, Tokai University School of Medicine, Kanagawa, Japan, <sup>4</sup>Institute of Biomedical Sciences, Federal University of Rio de Janeiro, Rio de Janeiro, RJ, Brazil
- P13-3 Cancelled**
- P13-4 Alpha-1 antichymotrypsin is involved in astrocyte injury during the development of acute hepatic encephalopathy**  
**Jonghyuk Park**, Takahiro Masaki, Yoshihiro Mezaki, Hiroshi Yokoyama, Mariko Nakamura, Haruka Maehashi, Tomokazu Matsuura  
 Department of Laboratory Medicine, The Jikei University School of Medicine, Japan
- P13-5 Clostridium sordellii Infection in a patient with liver cirrhosis: An autopsy case**  
**Takeshi Fujii<sup>1,3</sup>**, Mayu Hakozaiki<sup>1,4</sup>, Masahiro Kobayashi<sup>2,3</sup>, Fumitaka Suzuki<sup>2,3</sup>  
<sup>1</sup>Department of Pathology, Toranomon Hospital, Tokyo, Japan, <sup>2</sup>Department of Hepatology, Toranomon Hospital, Tokyo, <sup>3</sup>Okinaka Memorial Institute for Medical Research, Tokyo, <sup>4</sup>Department of Pathology, Graduate School of Medicine, The University of Tokyo, Tokyo
- P13-6 A study for etiologic pathogens of acute gastroenteritis with negative stool culture results in routine culture media**  
**Bo-Moon Shin**  
 Department of Laboratory Medicine, Sanggye Paik Hospital, Inje University, Seoul, Japan
- P13-7 Rapid screening of urinary tract infection using bacteria mode of UF-5000**  
**Sun Hoe Koo<sup>1</sup>**, Seon Young Kim<sup>1</sup>, Jong Wan Kim<sup>2</sup>, Gye Cheol Kwon<sup>1</sup>  
<sup>1</sup>Department of Laboratory Medicine, Chungnam National University School of Medicine, Daejeon, Korea, <sup>2</sup>Department of Laboratory Medicine, Dankook University College of Medicine, Cheonan, Korea
- P13-8 Trimethyl chitosan-capped silver nanoparticles: Their catalytic activity and antibacterial spectrum**  
**Tzong-Shi Chiueh<sup>1</sup>**, T.Y. Chang<sup>2,3</sup>, C.C. Chen<sup>2,3</sup>, K.M. Cheng<sup>2</sup>, C.Y. Chin<sup>2</sup>, Y.H. Chen<sup>2</sup>, X.A. Chen<sup>2</sup>, J.R. Sun<sup>3,4</sup>, J.J. Young<sup>2</sup>  
<sup>1</sup>Chang Gung Memorial Hospital, Taiwan, <sup>2</sup>Institute of Preventive Medicine, National Defense Medical Center, New Taipei, Taiwan, <sup>3</sup>Graduate Institute of Medical Science, National Defense Medical Center, Taipei City, Taiwan, <sup>4</sup>Division of Clinical Pathology, Department of Pathology, Tri-Service General Hospital, National Defense Medical Center, Taipei, Taiwan
- P13-9 Assessment of therapeutic effect of nifedipine, a calcium blocker on trypanosomiasis in infected albino rats**  
**Adeyemi A. Adesina<sup>1</sup>**, Olufemi O. Oyetoke<sup>2</sup>  
<sup>1</sup>Department of Chemical Pathology, Obafemi Awolowo University Teaching Hospital, Ile-Ife, Osun, Nigeria, <sup>2</sup>Department of Medical Microbiology and Parasitology, Obafemi Awolowo University Teaching Hospital, Ile-Ife, Osun, Nigeria

## P14 Microbiology: Mycobacterium

- P14-1 Cancelled**
- P14-2 Xpert MTB/RIF assay for detection of mycobacterium tuberculosis complex during routine practice**  
**Soon-Pal Suh<sup>1</sup>**, Hyun-Seung Lee<sup>1</sup>, Jun-Hyung Lee<sup>1</sup>, Eun-Jeong Won<sup>1</sup>, Hyun-Jeong Choi<sup>1</sup>, Seung-Jung Kee<sup>1</sup>, Soo-Hyun Kim<sup>1</sup>, Myung-Geun Shin<sup>1</sup>, Jong-Hee Shin<sup>1</sup>, Bock-Hee Park<sup>2</sup>  
<sup>1</sup>Department of Laboratory Medicine, Chonnam National University Hospital, Gwangju, Korea, <sup>2</sup>Department of Food & Nutrition, Mokpo National University, Chonnam, Korea

- P14-3 Whole blood cytokine profiles provide distinct signatures in human tuberculosis**  
**Seung-Jung Kee<sup>1</sup>**, Yong-Jun Kwon<sup>1</sup>, Eun-Jeong Won<sup>1</sup>, Jong-Hee Shin<sup>1</sup>, Soon-Pal Suh<sup>1</sup>, Bock-Hee Park<sup>2</sup>  
<sup>1</sup>Department of Laboratory Medicine, Chonnam National University Hospital, Gwangju, Korea, <sup>2</sup>Department of Food & Nutrition, Mokpo National University, Chonnam, Korea
- P14-4 Prevalence of MPT64 Ag negative *Mycobacterium tuberculosis* complex strains isolated from clinical specimens in Korea**  
**Yong-Kyun Kim**, Geehay Hong, Hyeyoung Lee, Soyeon Seo, Hyun Young Chi, Young-Sook Cho  
 Laboratory Medicine, Samkwang Medical Laboratories, Seoul, Korea
- P14-5 IGRA tests among Japanese medical students and non-Japanese international students**  
**Chiaki Suto<sup>1</sup>**, Larasati Martha<sup>2</sup>, Ai Saito<sup>1</sup>, Toshiya Inoue<sup>1</sup>, Rika Hasegawa<sup>1</sup>, Maika Sano<sup>1</sup>, Azusa Uchida<sup>1</sup>, Tetsuo Machida<sup>1</sup>, Takao Kimura<sup>1,2</sup>, Masami Murakami<sup>1,2</sup>  
<sup>1</sup>Clinical Laboratory Center, Gunma University Hospital, Japan, <sup>2</sup>Department of Clinical Laboratory Medicine, Gunma University Graduate School of Medicine
- P14-6 High ethambutol and fluoroquinolons resistance among rifampicin-resistant *Mycobacterium kansasii* infection in Taiwan**  
**Hsin-Ni Huang<sup>1</sup>**, Qiao-Ting Chao<sup>1</sup>, Ping-Hung Chen<sup>1</sup>, Jung-Yien Chien<sup>2</sup>, Po-Ren Hsueh<sup>1,2</sup>  
<sup>1</sup>Department of Laboratory Medicine, National Taiwan University Hospital, National Taiwan University College of Medicine, Taipei, Taiwan, <sup>2</sup>Departments of Internal Medicine, National Taiwan University Hospital, National Taiwan University College of Medicine, Taipei, Taiwan
- P14-7 *Mycobacterium kyorinense* infection: Clinical, biological and genetic features**  
**Hiroaki Ohnishi<sup>1</sup>**, Kouki Ohtsuka<sup>1</sup>, Yuko Kazumi<sup>2</sup>, Takemasa Takii<sup>2</sup>, Satoshi Mitarai<sup>2</sup>, Satsuki Matsushima<sup>1</sup>, Shota Yonetani<sup>1</sup>, Satoshi Otani<sup>3</sup>, Takashi Yoshiyama<sup>4</sup>, Yasuhiro Kato<sup>5</sup>, Yuta Hayashi<sup>6</sup>, Junichi Machiya<sup>7</sup>, Kaneyuki Kida<sup>8</sup>, Jun Sugihara<sup>9</sup>, Satoko Yamasaki<sup>1</sup>, Tomonori Kishino<sup>1</sup>, Hajime Goto<sup>4</sup>, Takashi Watanabe<sup>1</sup>  
<sup>1</sup>Department of Laboratory Medicine, Kyorin University School of Medicine, Japan, <sup>2</sup>The Research Institute of Tuberculosis, Japan Anti-Tuberculosis Association, <sup>3</sup>Oita Prefectural Hospital, <sup>4</sup>Head of Tuberculosis Center, Fukujiji Hospital, Japan Anti-tuberculosis Association, <sup>5</sup>Respiratory Medicine, Nippon Medical School Chiba Hokusai Hospital, <sup>6</sup>Department of Respiratory Medicine, National Hospital Organization Higashinagoya National Hospital, <sup>7</sup>Nihonkai General Hospital, <sup>8</sup>Clinical Laboratory, Japanese Red Cross Otsu Hospital, Shiga, <sup>9</sup>Health Science Division, Minister's Secretariat, Ministry of Health, Labour and Welfare
- P14-8 Intestinal parasitic infections among diabetes mellitus patients in a tertiary care hospital**  
**Vinay Khanna**  
 Department of Microbiology, Kasturba Medical College, Karnataka, India
- P14-9 Evaluation of AdvanSure Mycobacteria GenoBlot assay for the identification of nontuberculous mycobacteria**  
**Jeong-Hwan Shin<sup>1,2</sup>**, Si-Hyun Kim<sup>1,2</sup>, Sae-Am Song<sup>1</sup>, Hye-Ran Kim<sup>1</sup>, Dongeun Yong<sup>3</sup>, Jun-Yong Choi<sup>4</sup>, Joong-Ki Kook<sup>5</sup>  
<sup>1</sup>Department of Laboratory Medicine, Inje University College of Medicine, Busan, Korea, <sup>2</sup>Paik Institute for Clinical Research, Inje University College of Medicine, Busan, <sup>3</sup>Department of Laboratory Medicine and Research Institute of Antimicrobial Resistance, Yonsei University College of Medicine Seoul, Korea, <sup>4</sup>Division of Infectious Disease, Department of Internal Medicine and AIDS Research Institute, Yonsei University College of Medicine Seoul, Korea, <sup>5</sup>Department of Oral Biochemistry, School of Dentistry, Chosun University, Gwangju, Korea

- P15-1 Correlation between serum level of presepsin conditions and SOFA score on sepsis patients**  
**Ellyza Nasrul<sup>1</sup>, Efrida<sup>1</sup>, Rismawati Yaswir<sup>1</sup>, Desywar<sup>1</sup>, Emilzon Taslim<sup>2</sup>**  
<sup>1</sup>Department of Clinical Pathology, Faculty of Medicine, University of Andalas, Padang, Indonesia, <sup>2</sup>Department of Anesthesiology & Reanimation, Faculty of Medicine, University of Andalas, Padang
- P15-2 Direct identification of microorganisms from positive blood cultures by MALDI-TOF MS using an in-house saponin method**  
**Shota Yonetani<sup>1</sup>, Hiroaki Ohnishi<sup>1,2</sup>, Kiyofumi Ohkusu<sup>3</sup>, Tetsuya Matsumoto<sup>3,4</sup>, Takashi Watanabe<sup>1,2</sup>**  
<sup>1</sup>Department of Clinical Laboratory, Kyorin University School of Medicine, Japan, <sup>2</sup>Department of Laboratory Medicine, Kyorin University School of Medicine, Tokyo, Japan, <sup>3</sup>Department of Microbiology, Tokyo Medical University, Tokyo, Japan, <sup>4</sup>Department of Infection Control, Tokyo Medical University Hospital, Tokyo, Japan
- P15-3 Use of the iCubate platform for detecting drug-susceptible and -resistant Gram-positive cocci in flagged blood cultures**  
**Pei-Chien Chuang<sup>1</sup>, Tai-Fen Lee<sup>1</sup>, Jung-Yien Chien<sup>2</sup>, Shey-Ying Chen<sup>3</sup>, Jian Han<sup>4</sup>, Po-Ren Hsueh<sup>1,2</sup>**  
<sup>1</sup>Department of Laboratory Medicine, National Taiwan University Hospital, National Taiwan University College of Medicine, Taipei, Taiwan, <sup>2</sup>Department of Internal Medicine, National Taiwan University Hospital, National Taiwan University College of Medicine, Taipei, Taiwan, <sup>3</sup>Department of Emergency Medicine, National Taiwan University Hospital, National Taiwan University College of Medicine, Taipei, Taiwan, <sup>4</sup>iCubate Inc., Huntsville, Alabama, USA
- P15-4 High mortality impact of Staphylococcus argenteus on patients with community-onset bacteremia**  
**Hao Lee<sup>1</sup>, Shin-Hei Du<sup>1</sup>, Shey-Ying Chen<sup>2</sup>, Xiao-Mei Wang<sup>3</sup>, Tai-Fen Lee<sup>1</sup>, Chun-Hsing Liao<sup>4</sup>, Lee-Jene Teng<sup>1,6</sup>, Po-Ren Hsueh<sup>1,5</sup>**  
<sup>1</sup>Department of Laboratory Medicine, National Taiwan University Hospital, College of Medicine, Taipei, Taiwan, <sup>2</sup>Emergency Medicine, National Taiwan University Hospital, College of Medicine, Taipei, Taiwan, <sup>3</sup>Medical Genetics, National Taiwan University Hospital, College of Medicine, Taipei, Taiwan, <sup>4</sup>Department of Internal Medicine, Far Eastern Memorial Hospital, Taipei, Taiwan, <sup>5</sup>Internal Medicine, National Taiwan University Hospital, College of Medicine, Taipei, Taiwan, <sup>6</sup>Department of Graduate Institute of Clinical Laboratory Sciences and Medical Biotechnology, National Taiwan University, Taipei, Taiwan
- P15-5 Lactate and lactate clearance as prognostic markers in severe sepsis**  
**Deborah Theresia, Yusra**  
 Clinical Pathology Department, University of Indonesia-Ciptomangunkusumo Hospital, Indonesia

- P16-1 Association of baseline CD4 T cells count with immune system reconstitution in antiretroviral-treated HIV-1 infected patients**  
**Efrida<sup>2</sup>, Nasrul E.<sup>1</sup>, Ida Parwati<sup>2</sup>, Jamsari<sup>3</sup>**  
<sup>1</sup>Department of Clinical Pathology, Faculty of Medicine Andalas University, Padang, Indonesia, <sup>2</sup>Department of Clinical Pathology, Faculty of Medicine Padjadjaran University, Bandung, Indonesia, <sup>3</sup>Department of Agriculture, Andalas University, Padang, Indonesia
- P16-2 Evaluation of the Multisure HIV Rapid Test in the Korean population: A multi-center study**  
**Ahram Yi<sup>1</sup>, Hyeong-Nyeon Kim<sup>1</sup>, Mina Hur<sup>1</sup>, Hanah Kim<sup>1</sup>, Eun-Jee Oh<sup>2</sup>, Young-Sook Cho<sup>3</sup>, Sung Eun Cho<sup>4</sup>, Jinhee Cho<sup>5</sup>, Ah Ra Cho<sup>6</sup>, Seungman Park<sup>7</sup>, Hee-Won Moon<sup>1</sup>, Yeo-Min Yun<sup>1</sup>**  
<sup>1</sup>Department of Laboratory Medicine, Konkuk University School of Medicine, Konkuk University Hospital, Seoul, Korea, <sup>2</sup>Department of Laboratory Medicine, College of Medicine, The Catholic University of Korea, Seoul, Korea, <sup>3</sup>Samkwang Medical Laboratories, Seoul, Korea, <sup>4</sup>Labgenomics Clinical Laboratories, Seongnam, Korea, <sup>5</sup>Eone Laboratories, Incheon, Korea, <sup>6</sup>Seoul Clinical Laboratories, Yongin, Korea, <sup>7</sup>Green Cross Laboratories, Yongin, Korea
- P16-3 Cancelled**
- P16-4 The profile of Hepatitis B patients samples in clinical pathology department Moewardi General Hospital**  
**Lusi Oka Wardhani, Brigitte Rina Aninda Sidharta**  
 Indonesian Association of Clinical Pathology and Laboratory Medicine, Indonesia

- P16-5 Association of human leukocyte antigen variants-DP with response to hepatitis B vaccine in a Japanese population**  
**Yuya Okada**<sup>1</sup>, Naoki Uno<sup>1,2</sup>, Sayaka Mori<sup>1</sup>, Daisuke Sasaki<sup>1</sup>, Norihito Kaku<sup>1,2</sup>, Kosuke Kosai<sup>1,2</sup>, Yoshitomo Morinaga<sup>1,2</sup>, Hiroo Hasegawa<sup>1,2</sup>, Katsunori Yanagihara<sup>1,2</sup>  
<sup>1</sup>Department of Laboratory Medicine, Nagasaki University Hospital, Japan, <sup>2</sup> Department of Laboratory Medicine, Nagasaki University Graduate School of Biomedical Sciences
- P16-6 Hepatitis C virus attenuates host cellular microRNA functions by targeting the microRNA-induced silencing complex**  
**Takahiro Masaki**, Yoshihiro Mezaki, Tomokazu Matsuura  
 Department of Laboratory Medicine, The Jikei University School of Medicine, Japan
- P16-7 Immune status of measles- and rubella-specific immunoglobulin G among Japanese college students**  
**Yoshifumi Shoho**<sup>1,2</sup>, Takao Kimura<sup>1,3</sup>, Yoshimaro Yanagawa<sup>1,2</sup>, Ai Takeichi<sup>3</sup>, Toshiya Inoue<sup>3</sup>, Chiaki Suto<sup>3</sup>, Katsuhiko Tsunekawa<sup>1,3</sup>, Osamu Araki<sup>1,3</sup>, Makoto Nara<sup>1,4</sup>, Yutaka Tokue<sup>4</sup>, Masami Murakami<sup>1,3</sup>  
<sup>1</sup>Department of Clinical Laboratory Medicine, Gunma University Graduate School of Medicine, Gunma, Japan, <sup>2</sup>Department of Childcare, Ikuei Junior College, <sup>3</sup>Clinical Laboratory Center, Gunma University Hospital, Gunma, Japan, <sup>4</sup> Infection Control and Prevention Center, Gunma University Hospital, Gunma, Japan

## P17 Laboratory Management

- P17-1 Analysis of time required for resetting postural effects on concentrations of serum constituents in healthy individuals**  
**Yoshihisa Shimizu**<sup>1</sup>, Kiyoshi Ichihara<sup>2</sup>  
<sup>1</sup>Department of Medical Life Science, Faculty of Medical Bioscience, Kyushu University of Health and Welfare, Miyazaki, Japan, <sup>2</sup>Department of Clinical Laboratory Sciences, Faculty of Health Sciences, Yamaguchi University Graduate School of Medicine, Yamaguchi
- P17-2 Applying the PDCA principles to improving blood collection services**  
**Weihsin Hung**, Ya-Wen Tsai, Wen-Yen Lo, Li-Ching Wu  
 Department of Pathology, Chi-Mei Foundation Medical Center, Tainan, Taiwan
- P17-3 Applying priority blood collection services to elderly outpatients**  
**Weihsin Hung**, Ya-Wen Tsai, Wen-Yen Lo, Li-Ching Wu  
 Department of Pathology, Chi-Mei Foundation Medical Center, Tainan, Taiwan
- P17-4 Identification of samples quality in Clinical Pathology Department Moewardi General Hospital**  
**Brigitte Rina Aninda**  
 Indonesian Association of Clinical Pathology and Laboratory Medicine, Indonesia
- P17-5 Calculation of reference change values for haematological parameters**  
**Filiz Akbiyik**, Yusuf Bayrakceken, Zeliha Gunnur Dikmen  
 Department of Medical Biochemistry, Faculty of Medicine, Hacettepe University, Ankara, Turkey
- P17-6 Strategies for operating costs reduction of hospital through laboratories integration using DMAIC model**  
**Yu-Hong Tsai**, Linlin Pan  
 Chiayi Chang Gung Memorial Hospital, Taiwan
- P17-7 Correlation between dimensions of service quality and patients satisfaction at central laboratory Dr.M. Djamil Hospital**  
**Desywar**, Rima Semiarti, Aumas Pabuti  
 Department of Clinical Pathology, Faculty of Medicine, University of Andalas, Padang, Indonesia

- P18-1 The standard lipid profile results in samples collected with and without fasting state of 12 hours in Brazil**  
**Nairo M. Sumita**, Jose de Sa, Sara J. Mena, Jose S. Jangrossi, Gustavo Loureiro  
*Grupo Fleury, Sao Paulo, Brazil*
- P18-2 Evaluation of LDL-cholesterol by Martin equation and measured LDL-cholesterol for triglycerides levels above 400 mg/dL**  
**Nairo M. Sumita**, Jose de Sa, Sara J. Mena, Jose S. Jangrossi, Gustavo Loureiro  
*Grupo Fleury, Sao Paulo, Brazil*
- P18-3 Analysis of serum triacylglycerol metabolites in hypertriglyceridemia**  
**Sunao Morita**<sup>1</sup>, Makoto Yamaura<sup>1</sup>, Tomo Sato<sup>1</sup>, Atsushi Hori<sup>1</sup>, Tsuyoshi Uehara<sup>2</sup>, Hiroya Hidaka<sup>1</sup>  
<sup>1</sup>*School of Health Sciences, Shinshu University School of Medicine, Matsumoto, Japan*, <sup>2</sup>*Department of Laboratory Medicine, Shinshu University School of Medicine*
- P18-4 GPIHBP1 levels are elevated in hypertensive disorders of pregnancy**  
**Hisanobu Sadakata**<sup>1,2</sup>, Tetsuo Machida<sup>3</sup>, Kazuya Miyashita<sup>1,3</sup>, Katsuyuki Nakajima<sup>1,3</sup>, Masami Murakami<sup>3</sup>, Takashi Kameda<sup>4</sup>, Hiroshi Kishi<sup>4</sup>, Takashi Minegishi<sup>5</sup>, Anne P. Beigneux<sup>6</sup>, Stephen G. Young<sup>6</sup>, Yumiko Abe<sup>1</sup>  
<sup>1</sup>*Department of Laboratory Sciences, Graduate School of Health Sciences, Gunma University, Japan*, <sup>2</sup>*Department of Obstetrics and Gynecology, Kiryu Kosei General Hospital*, <sup>3</sup>*Department of Clinical Laboratory Medicine, Graduate School of Medicine, Gunma University*, <sup>4</sup>*Department of Obstetrics and Gynecology, Graduate School of Medicine, Gunma University*, <sup>5</sup>*Gunma University*, <sup>6</sup>*Department of Medicine, University of California Los Angeles*
- P18-5 Automated method for measuring human lipoprotein lipase and hepatic lipase activities in post-heparin plasma**  
**Tetsuo Machida**<sup>1</sup>, Kiyomi Nakajima<sup>1</sup>, Shigeyuki Imamura<sup>2</sup>, Daisuke Kawase<sup>3</sup>, Masahiro Maeda<sup>3</sup>, Junji Kobayashi<sup>4</sup>, Yuji Muraba<sup>5</sup>, Takao Kimura<sup>6</sup>, Katsuyuki Nakajima<sup>5</sup>, Masami Murakami<sup>5</sup>  
<sup>1</sup>*Clinical Laboratory Center, Gunma University Hospital, Japan*, <sup>2</sup>*Imamura Enzyme Technology Laboratory, Shizuoka, Japan*, <sup>3</sup>*Immuno-Biological Laboratories, Fujioka, Japan*, <sup>4</sup>*Kanazawa Medical University, Kanazawa, Japan*, <sup>5</sup>*Department of Clinical Laboratory Medicine, Gunma University Graduate School of Medicine, Japan*
- P18-6 Analysis of human lipid molecular species using thin-layer chromatography fractionation and mass spectrometry**  
**Tomo Sato**<sup>1</sup>, Makoto Yamaura<sup>1</sup>, Sunao Morita<sup>1</sup>, Atsushi Hori<sup>1</sup>, Tsuyoshi Uehara<sup>2</sup>, Hiroya Hidaka<sup>1</sup>  
<sup>1</sup>*School of Health Sciences, Shinshu University School of Medicine, Matsumoto, Japan*, <sup>2</sup>*Department of Laboratory Medicine, Shinshu University School of Medicine*
- P18-7 Difference in reactivity among lipids in lipoprotein fractionation using agarose gel electrophoresis**  
**Natsumi Yamaguchi**<sup>1</sup>, Kazuki Nakajima<sup>2</sup>, Makoto Matsushita<sup>1</sup>  
<sup>1</sup>*Department of Clinical Chemistry, Saitama Prefectural University, Saitama, Japan*, <sup>2</sup>*Department of Clinical Chemistry, Saitama Prefectural University Graduate School, Saitama*
- P18-8 Increase of Lp(a) in remnant lipoproteins after fat load**  
**Takumi Nagasawa**<sup>1</sup>, Katsuyuki Nakajima<sup>1</sup>, Kazuya Miyashita<sup>1</sup>, Fumiyoshi Tsunoda<sup>2</sup>, Shinji Koba<sup>2</sup>, Yumiko Abe<sup>1</sup>  
<sup>1</sup>*Department of Health Sciences, Graduate School of Gunma University, Maebashi, Japan*, <sup>2</sup>*Division of Cardiology, Department of Medicine, Showa University School of Medicine, Tokyo, Japan*

## P19 Point of Care Testing

- P19-1 Development of Point of Care Testing device for hemoglobin test in home health nursing**  
**Hiroyuki Nozaka<sup>1</sup>**, Hiroki Sazawa<sup>1</sup>, Erika Ozaki<sup>1</sup>, Manabu Nakano<sup>1</sup>, Hideki Takami<sup>1</sup>, Masakatsu Ooura<sup>2</sup>  
*<sup>1</sup>Hirosaki University Graduate School of Health Sciences, Japan, <sup>2</sup>CONSIS CO., LTD.*
- P19-2 Development and evaluation of Point of Care Testing device for whole blood albumin test in home health nursing**  
**Hiroyuki Nozaka<sup>1</sup>**, Hiroki Sazawa<sup>1</sup>, Erika Ozaki<sup>1</sup>, Manabu Nakano<sup>1</sup>, Hideki Takami<sup>1</sup>, Masakatsu Ooura<sup>2</sup>  
*<sup>1</sup>Hirosaki University Graduate School of Health Sciences, Japan, <sup>2</sup>CONSIS CO., LTD.*

## P20 Team Practice and Education

- P20-1 Clinical importance of CGM and roles of the medical technologist with CDE certification**  
**Ryoko Nonobe<sup>1</sup>**, Yoshikazu Ono<sup>1</sup>, Michiko Sato<sup>1</sup>, Yuko Kageyama<sup>1</sup>, Kohei Shimizu<sup>1</sup>, Eri Madate<sup>1</sup>, Satomi Noda<sup>1</sup>, Megumi Takahashi<sup>1</sup>, Shinji Sone<sup>2</sup>, Makoto Kurano<sup>1</sup>, Yutaka Yatomi<sup>1</sup>  
*<sup>1</sup>Department of Clinical Laboratory, The University of Tokyo Hospital, Tokyo, Japan, <sup>2</sup>Department of Transfusion Medicine & Immunohematology, The University of Tokyo Hospital*
- P20-2 Possibility of team practices by the clinical pathologist**  
**Yuji Imafuku**  
*Asama General Hospital, Japan*
- P20-3 Performing annual health check by the clinical pathologist**  
**Yuji Imafuku**  
*Asama General Hospital, Japan*
- P20-4 Education in nursing school by the clinical pathologist**  
**Yuji Imafuku**  
*Asama General Hospital, Japan*
- P20-5 Training and education of laboratory professionals in Mongolia**  
**Oyundelger Ertsuud Munkhtuvshin**  
*Mongolian Association of the Laboratory Medicine, Mongolia*
- P20-6 Establishing a remote education system on hematological morphology between Japan and Cambodia**  
**Yoshiko Kudo<sup>1</sup>**, Asako Kimura<sup>1</sup>, Chhea Sophearom<sup>2</sup>, Ket Vansith<sup>2</sup>, Chea Sin<sup>2</sup>, Susumu Osawa<sup>1</sup>  
*<sup>1</sup>International University of Health and Welfare, Japan, <sup>2</sup>University of Puthisastra*

## P21 Urinalysis and Kidney Diseases

- P21-1 Evaluation of a new automated system for urinalysis UN-3000 (SYSMEX) in a public university hospital in Brazil**  
**Nairo M. Sumita**, Livia B. Avallone, Cyntia G.C.N. Freire, Kelly S. Clemente, Liane M.A. Toledo, Bianca V.T. Antunes, Maria E. Mendes  
*Central Laboratory Division, Hospital das Clinicas da Faculdade de Medicina da Universidade de Sao Paulo, Sao Paulo, Brazil*
- P21-2 Performance evaluation of the UF-5000 automated urine analyzer**  
**Young-Jae Kim**  
*Department of Laboratory Medicine, Samsung Changwon Hospital, Chang Won, Korea*



- P21-3 Urinary sedimentation test contributes to the diagnosis of colovesical fistula: A case report**  
**Yoshie Yamada<sup>1</sup>, Miki Matsuki<sup>1</sup>, Mitsuru Wakita<sup>1</sup>, Hiroyuki Takemura<sup>1</sup>, Yoko Tabe<sup>2</sup>, Takashi Horii<sup>1</sup>, Akimichi Ohsaka<sup>1,3</sup>**  
<sup>1</sup>Department of Clinical Laboratory, Juntendo University Hospital, Japan, <sup>2</sup>Department of Clinical Laboratory Medicine, Juntendo University School of Medicine, <sup>3</sup>Department of Transfusion and Stem Cell Regulation Juntendo University School of Medicine
- P21-4 Urinary protein analysis for early detection of IgA nephropathy**  
**Mihoko Nishizawa<sup>1</sup>, Ryo Kubota<sup>2</sup>, Toru Igarashi<sup>3</sup>, Nobue Sakai<sup>2</sup>**  
<sup>1</sup>Department of Clinical Laboratory Sciences, Nitobe Bunka College, Tokyo, Japan, <sup>2</sup>Department of Health Sciences, Saitama Prefectural University, Saitama, Japan, <sup>3</sup>Department of Pediatrics, Nippon Medical School Hospital, Tokyo, Japan
- P21-5 A rapid and simple method to measure Tamm-Horsfall protein in the urine and to investigate its clinical significance**  
**Kouki Hosaka<sup>1</sup>, Kiko Kawamitsu<sup>2</sup>, Masaru Akimoto<sup>2</sup>, Miyuki Sakemoto<sup>2</sup>, Miki Kawano<sup>1,3</sup>, Takiko Tateishi<sup>1,4</sup>, Taeko Hotta<sup>2</sup>, Dongchon Kang<sup>5</sup>, Yuzo Kayamori<sup>6</sup>, Eisaku Hokazono<sup>6</sup>**  
<sup>1</sup>Division of Medical Technology, Department of Health Sciences, Graduate School of Medicine, Kyushu University, Japan, <sup>2</sup>Department of Clinical Chemistry and Laboratory Medicine, Kyushu University Hospital, <sup>3</sup>Department of Medical Technology and Sciences, School of Health and Sciences at Narita, International University of Health and Welfare, <sup>4</sup>Department of Medical Technology, Faculty of Health Sciences, Junshin Gakuen University, <sup>5</sup>Department of Clinical Chemistry and Laboratory Medicine, Faculty of Medical Sciences, <sup>6</sup>Department of Health Sciences, Faculty of Medical Sciences, Kyushu University
- P21-6 Relationship of plasma and urine NGAL with the acute kidney injury and the inflammatory markers**  
**Yeo-Min Yun, Ahram Yi, Hanah Kim, Hee-Won Moon, Mina Hur**  
 Department of Laboratory Medicine, Konkuk University School of Medicine, Konkuk University Hospital, Seoul, Korea
- P21-7 LC-MS/MS detection of podocyturia in nephrotic syndrome**  
**Halide Akbas<sup>1</sup>, Bahar Akkaya<sup>2</sup>, Bilge Karatoy Erdem<sup>1</sup>, Vural Taner Yilmaz<sup>3</sup>, Mualla Ozcan<sup>2</sup>, Busra Harmanci<sup>1</sup>, Fevzi Ersoy<sup>3</sup>, Ramazan Cetinkaya<sup>3</sup>, Gultekin Suleymanlar<sup>3</sup>**  
<sup>1</sup>Department of Biochemistry, Akdeniz University School of Medicine, Turkey, <sup>2</sup>Department of Pathology, Akdeniz University School of Medicine, <sup>3</sup>Akdeniz University, School of Medicine, Department of Nephrology
- P21-8 Evaluation of chronic kidney disease for cigarette smoker in the general population**  
**Michiko Yamazaki<sup>1,2</sup>, Masao Ishizaki<sup>2</sup>, Masaru Sakurai<sup>2</sup>, Yuka Noborisaka<sup>2</sup>, Akihiro Inazu<sup>1</sup>**  
<sup>1</sup>Department of Laboratory Science, Molecular Biochemistry and Molecular Biology, Graduate School of Medical Science, Kanazawa University, Japan, <sup>2</sup>Department of Social and Environmental Medicine, Kanazawa Medical University School of Medicine
- P21-9 The clinical significance of ERC/mesothelin in peritoneal dialysis patients**  
**Mayumi Idei<sup>1</sup>, Yoko Tabe<sup>1</sup>, Masaaki Abe<sup>2</sup>, Chieko Hamada<sup>3</sup>, Kazunori Miyake<sup>1</sup>, Okio Hino<sup>2</sup>, Takashi Miida<sup>1</sup>**  
<sup>1</sup>Department of Clinical Laboratory Medicine, Juntendo University Graduate School of Medicine, Tokyo, Japan, <sup>2</sup>Department of Pathology and Oncology, Juntendo University Faculty of Medicine, Tokyo, <sup>3</sup>Division of Nephrology, Department of Internal Medicine, Juntendo University Faculty of Medicine, Tokyo
- P21-10 The relationship of iron deficiency and soluble transferrin receptor (sTfR) in patients with renal transplantation**  
**Halide Akbas<sup>1</sup>, Busra Harmancik<sup>1</sup>, Gultekin Suleymanlar<sup>2</sup>, Gultekin Yucel<sup>1</sup>**  
<sup>1</sup>Department of Biochemistry, Akdeniz University School of Medicine, Turkey, <sup>2</sup>Department of Nephrology, Akdeniz University School of Medicine