Program

Lecture by the President-Elect

S67

March 22 (Tuesday) 12:45-13:25 venue 1

Chairperson: Hidekuni Inadera

LPE-01 Traditions and Challenges in Environmental Health and Preventive Medicine Yuji Nishiwaki

JSH Award Lecture

S71

March 22 (Tuesday) 14:25-14:55 venue 1

Chairperson: Yoshiki Kuroda

JAL-01 Research on health promotion and disease prevention effect of forest environment (Shinrin-yoku/Forest Bathing/) - the Establishment of "Forest Medicine"
Qing Li

Young Investigators Award Lecture

S79

March 22 (Tuesday) 15:00-15:40 venue 1

Chairperson: Takahiko Yoshida

- YIA-01 Influence of circulating CD34-positive cell on hypertension and atherosclerosis: Epidemiological study Yuji Shimizu
- YIA-02 Epidemiological study on mental health and suicide prevention in the general and workers population Takashi Yamauchi

Educational Lecture 1

S85

March 22 (Tuesday) 16:00-17:00 venue 2

Chairperson: Kouichi Yoshimasu

EL1-01 Disasters and mental health; Current understanding and treatment of Depression and Anxiety disorders
Tomohiro Nakao

Educational Lecture 2

S87

March 22 (Tuesday) 17:05-18:05 venue 2

Chairperson: Takahiko Katoh

EL2-01 Importance of *ALDH2* polymorphism rs671 in public health and medicine Akiko Matsumoto

Educational Lecture 3 S91

March 23 (Wednesday) 14:00-14:50 venue 1

Chairperson: Masayuki Shima

EL3-01 Current state of tick bites and tick-born infectious diseases in Japan

Masaru Natsuaki

Special Lecture S93

March 23 (Wednesday) 13:00-13:50 venue 1

Chairperson: Masayuki Shima

SL-01 Ambient air pollution and health in China in the context of zero-net emission and accelerating aging Xinbiao Guo

Main Symposium S97

March 22 (Tuesday) 16:00-18:00 venue 1

Planetary health: environment, society and human health in the Anthropocene

Chairperson: Chiho Watanabe / Masahiro Hashizume

MSY-01 Planetary Health: Addressing the biggest global health challenges of our times

Tony Capon

MSY-02 Current status and challenges for Planetary Health research and activities

Chiho Watanabe

MSY-03 Carbon footprint for health care services in Japan

Keisuke Nansai

MSY-04 Global Commons Stewardship and Food System Transformation

Naoko Ishii

MSY-05 Climate change and health: impacts and adaptation from the IPCC 6th Assessment Report

Masahiro Hashizume

Symposium 1 S103

March 21 (Monday) 16:00-18:00 venue 1

The role of forest medicine in post-COVID-19 health management and disease prevention

Chairperson: Qing Li / Masayuki Shima

SY1-01 The role of forest medicine in post-COVID-19 health management and disease prevention in Japan Qing Li

- **SY1-02** The role of forest medicine in post-COVID-19 health management and disease prevention in China Min Du
- **SY1-03** The role of forest medicine in post-COVID-19 health management and disease prevention in Korea Won Sop Shin
- **SY1-04** The role of forest medicine in post-COVID-19 health management and disease prevention in Canada Bernadette Rey
- **SY1-05** The role of forest medicine in post-COVID-19 health management and disease prevention in Germany Melanie H. Adamek
- **SY1-06** The role of forest medicine in post-COVID-19 health management and disease prevention in Italy Francesco Riccardo Becheri
- SY1-07 The role of forest medicine in post-COVID-19 health management and disease prevention in the UK Gary Evans
- **SY1-08** The role of forest medicine in post-COVID-19 health management and disease prevention in the world Qing Li

Symposium 2 S111

March 22 (Tuesday) 9:30-11:30 venue 1

Assessing the risk of COVID-19 from exposure to SARS-CoV-2 and the practical infection control in occupational and general environment

Chairperson: Kenichi Azuma / Teruomi Tsukahara

- SY2-01 Viral droplet/aerosol dispersion simulation on the supercomputer "Fugaku" and infection risk assessment Makoto Tsubokura
- **SY2-02** Evaluation of ventilation measures against COVID-19 considering infection probability

 Takashi Kurabuchi
- **SY2-03** Analysis of the secondary infection and cluster of COVID-19 and the practical infection control Atsushi Mizukoshi
- SY2-04 Is it a risk reduction measure for the spread of COVID-19 infection? Thinking from the behavior change of infected people by using the antigen test kit at home.

 Satoko Iwasawa

Symposium 3 S115

March 22 (Tuesday) 9:30-11:30 venue 2

Birth cohort collaboration

Chairperson: Fumihiro Sata

SY3-01 Building, Maintaining, and Updating the Infrastructure for Domestic Birth Cohort Collaboration: Efforts for Birth Cohorts in Japan

Fumihiro Sata

SY3-02	Creating an infrastructure for Meta-Analysis across Birth Cohorts in Japan Naho Morisaki
SY3-03	IPD analysis in genomic cohort studies Atsushi Shimizu
SY3-04	Seiiku-Boshi cohort in collaboration with multiple birth cohort study in Japan Reiko Horikawa
SY3-05	Hamamatsu Birth Cohort for Mothers and Children (HBC Study): the role in the birth cohort collaborative consortium Kenji J Tsuchiya
SY3-06	The BOSHI Study Hirohito Metoki
Symposiu	ım 4 S121
March 2	23 (Wednesday) 9:30-11:30 venue 1
Environr	nental chemical exposure and health effects: current findings and future perspectives
	Chairperson: Yuki Ito / Atsuko Ikeda
SY4-01	Our health and environment: A review of Japan Environment and Children's Study Miyuki Iwai-Shimada
SY4-02	Longitudinal epidemiological findings of health effect and ongoing challenges in the Hokkaido Study on Environment and Children's Health Chihiro Miyashita
SY4-03	Toward reducing exposure to environmental chemicals: findings from our dietary surveys Yuki Ito
SY4-04	Trials of developing AI system/OMCS to predict onset of effects caused by environmental factors Seiichiroh Ohsako
Symnosii	ım 5

Symposium 5 S125

March 23 (Wednesday) 9:30-11:30 venue 2

Air pollutants and health effects: Impact on child health and lifestyle-related diseases

Chairperson: Jiro Okumura / Kanae Bekki

SY5-01 Maternal exposure to air pollutants and obstetric complications
Takehiro Michikawa

SY5-02 Exposure to Asian dust and allergic symptoms on pregnant mothers and infants Kumiko Kanatani T

SY5-03 Short-term effects of air pollutants on pulmonary function among healthy students Yoshiko Yoda

SY5-04 Formulation of air quality standards (benzene, fine particulate matter (PM 2.5), etc.) Kiwamu Nagoshi

SY5-05 Estimating maternal exposures of ambient key air pollutants for the Japan Environment and Children's Study (JECS)

Shin Araki

Symposium 6 S131

March 23 (Wednesday) 13:00-15:00 venue 2

Health Promotion by Brain Training Using Electroencephalography and Intelligent Systems

Chairperson: Hiroki Takada

SY6-01 Development of a cognitive training system based on an EEG-BMI and its application to "bSports" Ryohei, P. Hasegawa

SY6-02 Effect of difference in way of viewing movies on brain activation

Akihiro Sugiura

SY6-03 Social implementation of b-sports

Hitoshi Hirata

SY6-04 Towards Teleoperation of Robots based on Human Motion Measurement and Imitation and Brain-Machine Interface

Satoki Tsuichihara

Young Researchers Association Workshop 1

S137

March 21 (Monday) 12:00-14:40 venue 2

Potential for preemptive medicine for the development of hygiene

Chairperson: Takehiro Suzuki / Mano Horinaka

YSCM-01 Preemptive medicine in hygiene and environmental medicine

Kanae Mure

YSCM-02 Preemptive medicine and single nucleotide polymorphisms (SNPs): the Hokkaido study on environment

and children's health

Sumitaka Kobayashi

YSCM-03 Development of data-driven approaches to preventive and pre-emptive medicine

Eiryo Kawakami

YSCM-04 Ethics in health research and solidarity

Yusuke Inoue

YSCM-05 Development of management systems for hereditary cancers with the spread of precision medicine

Hisako Ono

Young Researchers Association Workshop 2

S143

March 21 (Monday) 14:50-15:50 venue 2

Young Researchers Exchange Program and Annual Meeting of Young Researchers Association

Chairperson: Hatasu Kobayashi

Free-Style Session

S145

March 21 (Monday) 16:00-18:00 venue 2

Issues in infection control in developing countries and Japan - including viewpoints from preventive measures against COVID-19

Chairperson: Nobumichi Kobayashi

SCM-01 Developing countries and Japan for Salmonella infection -With Salmonella and Zero COVID 19 in Lao PDR - Yutaka Morikawa

SCM-02 Human filariasis in Lao People's Democratic Republic

Satoshi Nakamura

SCM-03 Serious Disaster and Vector-bone Disease

Kimio Hirabayashi

SCM-04 Antimicrobial resistance of pathogenic bacteria in Myanmar and Bangladesh: present status and future issues

Nobumichi Kobayashi

Public Open Seminar

S151

March 21 (Monday) 13:30-15:30 venue 1

Toward Future-Oriented Hygiene Overcoming Environmental Pollution: Environment and Health in Hanshin Region in Japan

Chairperson: Masayuki Shima / Shin Yamazaki

CL-01 A historical review and current status on health effects of air pollution

Masayuki Shima

CL-02 Asbestos scattering and health damage

Tomotaka Sobue

CL-03 Activities for environmental issues in the Hanshin-Awaji Earthquake

Hiroshi Matsugi

CL-04 Measures against asbestos in Amagasaki city

Kazumi Inamura

CL-05 Aiming for a healthy society for the next generation (Japan Environment and Children's Study)

Shin Yamazaki

Seminar for Board Certified Supervisory Physician for Public Health and Social Medicine

S157

March 23 (Wednesday) 15:00-16:00 venue 1

Chairperson: Gen Kohashi

FRM-01 Seminar for Board Certified Supervisory Physician for Public Health and Social Medicine

Yasushi Okubo

Sponsored Seminar 1

S159

March 21 (Monday) 12:00-12:50 venue 1

Progress and Perspectives of the Japan Environment and Children's Study (JECS)

Chairperson: Masayuki Shima

LS1-01 Overview of the Japan Environment and Children's Study

Shin Yamazaki

LS1-02 The road to the launch of the Japan Environment and Children's Study (JECS)

Hideki Hasunuma

LS1-03 Efforts in Hyogo Regional Center for JECS

Masayuki Shima

Co-Sponsor: Hyogo Regional Center for the Japan Environment and Children's Study

Sponsored Seminar 2

S163

March 22 (Tuesday) 11:50-12:40 venue 1

Chairperson: Yuji Takada

LS2-01 Does electromagnetic field exposure cause electromagnetic hypersensitivity (EHS)? WHO's view.

Chiyoji Ohkubo

Co-Sponsor: Japan EMF Information Center

Sponsored Seminar 3

S165

March 23 (Wednesday) 12:00-12:50 venue 1

Climate Change Health Impact Assessment and Adaptation

Chairperson: Hideaki Nakane

LS3-01 Prediction and adaptation of health effects due to climate change - Dengue fever, heat stroke, new

coronavirus infection

Hiroshi Nishiura

LS3-02 Evaluation of impact assessment in the hot environment on heat stroke in an aging society

Keiichi Kitazume

Co-Sponsor: Environmental Restoration and Conservation Agency (ERCA)

Oral Session

March 22 (Tuesday) venue 3 9:00-9:50 Oral 1 Air, Water, Physical Factors, and Radiation on Health and Illness 1 **S170** Chairperson: Masashi Kato O01-01 Influence of Implementing the Environmental Governance Policies on Polycyclic Aromatic Hydrocarbons (PAHs) and Nitro-PAHs (NPAHs) in Xinxiang, China. Hao Zhang O01-02 Yearly variation and health risk of polycyclic aromatic hydrocarbons and nitro-polycyclic aromatic hydrocarbons in Vladivostok, Russia. Yan Wang O01-03 Air pollution exposure and lung function among residents: a pilot survey in heavy-polluted cities of China Xuan Zhang O01-04 Variations in concentration and composition of polycyclic aromatic hydrocarbons observed in Wajima during the Asian dust events Pengchu Bai O01-05 Development of remediation system for tannery-related water pollution by phenolic compounds in Bangladesh Fitri Kurniasari 10:00-10:40 **Oral 2** Air, Water, Physical Factors, and Radiation on Health and Illness 2 **S171** Chairperson: Takehiro Michikawa Relationship between Intranasal Lead levels and Allergic Symptoms in Patients with Allergic Rhinitis O02-01 Takumi Kagawa Lowest observed adverse effect level of nitrous acid in guinea pig specific airway resistance O02-02 Masayuki Ohyama O02-03 Association between indoor nitrous acid, outdoor nitrogen dioxide, and asthma attacks: results of a pilot study Masayuki Ohyama O02-04 Emergency Transport Because Of Illness During Bathing Process In Japan Tomohiro Umemura S172 10:50-11:40 **Oral 3** Industrial and Occupational Health Chairperson: Yasushi Suwazono O03-01 A study on the chemical substance permeation performance in chemical protective clothing materials Hiroyuki Miyauchi O03-02 Differences in the rate of droplet penetration into the surgical masks according to the method of wearing.

Kazunari Onishi

March 22 (Tuesday) venue 4

Takamasa Kido

9:00-9:50 **Oral 4** Ecological Effects and Dynamics of Metals 1 **S173** Chairperson: Masato Matsuoka O04-01 Oxidative stress in associations with trace element exposure and diet in rural residents of Northern Laos Yuki Mizuno Basic consideration on total mercury in breast milk at 3-5 months after birth O04-02 Nozomi Tatsuta O04-03 Breast milk contribution to tissue mercury levels in rat pups: cross-fostering study at birth Mineshi Sakamoto The Effect of maternal methylmercury on the proliferation of neural stem cells in rat offspring O04-04 Takuya Wakasugi O04-05 Arsenic increased blood pressure in mice via enhancement of angiotensin II and inhibition of ACE2 MD Shiblur Rahaman

S174 10:00-10:40 **Oral 5** Ecological Effects and Dynamics of Metals 2 Chairperson: Yasumitsu Nishimura O05-01 Arsenite exposure induces premature senescence and following SASP induction in human hepatoma cell line Huh7 Kazuyuki Okamura O05-02 Involvement of endoplasmic reticulum stress/autophagy crosstalk mechanism and cell death in neuroblastoma SH-SY5Y following exposure to silver nanoparticles Takamitsu Miyayama O05-03 Promoting effect of zinc oxide nano-particles on induction of IL-8 release from human keratinocyte HaCaT cells. Shingo Yogosawa O05-04 Effect of T cell maturation process associated with thymic atrophy / fatty degeneration in zinc-deficient rats

10:50-11:40 Session for the Best Presentation by Young Investigators

Chairperson: Mayumi Tsuji

O01-05 Development of remediation system for tannery-related water pollution by phenolic compounds in Bangladesh

Fitri Kurniasari

O05-04 Effect of T cell maturation process associated with thymic atrophy / fatty degeneration in zinc-deficient rats
Takamasa Kido

O09-03 Asperuloside regulates metabolic signaling via changing gut microbiota composition

Anna Nakamura

O10-01 Associations between oral, cognitive function and falls who participate in community-based physical exercise groups

Chisato Hayashi

O19-05 Assessing the risk of a domestic outbreak of dengue infection under climate change Katsuma Hayashi

March 22 (Tuesday) venue 2

15:00-15:50 Oral 6 Ecological Effects and Dynamics of Chemical Substances

S175

Chairperson: Shoji Nakayama

O06-01 Analysis of phthalate esters, bisphenols, etc. in consumer products

Kouji Harada

O06-02 Influence of Perfluorooctane Sulfonate Isomers on Blood Analysis by GC-MS and LC-MS/MS Sani Soleman

O06-03 Investigation of role of Nrf2 in protective mechanism against toxicity of 1,2-dicholoropropane
Yusuke Kimura

O06-04 Effect of equol on thyroid hormone receptor action Yuki Fujiwara

O06-05 Effects of particle-containing personal care product on atopic dermatitis and the localization Akiko Honda

March 22 (Tuesday) venue 3

15:00-15:50 Oral 7 Stress, Behavioral Science, and Intractable Diseases 1

S177

Chairperson: Mariko Murata

O07-01 Analysis of cerebellar ataxia in c-Ret mutant mice

Keming Tong

O07-02 Analysis of stress vulnerability in fatty acid metabolism disorders

Miharu Ushikai

O07-03 Response of mice to a repeated novel environment exposure Sayuri Fushuku O07-04 Effects of exercise patterns considering human lifestyle on mice Haruko Takeshita O07-05 Identification and elucidation of the role of metabolites on the learning behavior in THA rats Hitoshi Endo **16:00-16:50 Oral 8** Stress, Behavioral Science, and Intractable Diseases 2 **S178** Chairperson: Keigo Saeki O08-01 Behavior change process of people who have little interest in their health: A qualitative study Takashi Shimazaki O08-02 Investigation of Relationships among Health Literacy, Social Determinants of Health, Menopausal Symptoms, Lifestyle-related Diseases, and Depression in Menopausal Women Kanae Takenaka O08-03 Research on workplace stress management measures by inhalation of forest odor component hinoki essential oil Qina Li O08-04 Social Inactivity and Symptom Severity in Patients with Neurofibromatosis Type 1 Fuiita Yuki O08-05 Social independence in Neurofibromatosis type 2 patients in Japan: follow-up survey of national registry of patients receiving financial aid for treatment Hiroto Okoshi March 22 (Tuesday) venue 4 15:00-15:50 **Oral 9** Lifestyle-Related Diseases **S179** Chairperson: Machi Suka Relationship of urinary liver-type fatty acid-binding protein with cardiovascular risk factors in the Japanese O09-01 population without chronic kidney disease: Sasayama study Yoshimi Kubota O09-02 Associations of habitual alcohol drinking with HDL cholesterol and d-dimer in patients with peripheral arterial disease Yoko Sotoda Asperuloside regulates metabolic signaling via changing gut microbiota composition O09-03 Anna Nakamura O09-04 Establishment of Liver Organoids Culture Method in High Fat Diet-Fed Rats

Elucidation of liver metastasis mechanism by metabolome analysis of colorectal cancer stem cells

Tomohide Sakakibara

Toshiaki Miyazaki

O09-05

March 23 (Wednesday) venue 3 **9:00-9:50 Oral 10** Elderly Health and Epidemiology **S180** Chairperson: Naoki Kunugita O10-01 Associations between oral, cognitive function and falls who participate in community-based physical exercise groups Chisato Hayashi O10-02 Relation between Skeletal Muscle Mass and Cognitive Function in Community-Dwelling Elderly Men: Crosssectional analyses of Fujiwara-kyo Osteoporosis Risk in Men (FORMEN) Study Chikako Nakama O10-03 Effect of "Tai Chi Exercise" on longevity: Survival analysis in Kitakata City, Fukushima Prefecture Nobuaki Moriyama O10-04 Variations in Deaths due to Vascular and Unspecified Dementia in Japan Masaki Bando O10-05 Modelling the long-term risk of heat stroke among elderly people Marie Fujimoto 10:00-10:40 **Oral 11** Preventive Medicine, Health Promotion, and Community Health **S182** Chairperson: Hirokazu Uemura 011-01 Effects of intake energy on nutrition intake status of female university students Atsuko Shinohara O11-02 Associations between smoking and blood lipids-related indices in women Yuri Chimura O11-03 Study on the assessment of exposure of tobacco product smokers to harmful chemical compounds 011-04 Effectiveness of partner support for smoking cessation received with pregnant women - A study of the relationship between behavioral change toward smoking cessation and parenthood-Yoshiko Hayashi 10:50-11:40 **Oral 12** Health Crisis Management and Medical Ethics **S183** Chairperson: Katsuyasu Kouda O12-01 Effectiveness of an intervention program to enhance "self-confidence in dealing with health-related anxiety about radiation" for nursery teacher Tomomi Kuga O12-02 Risk perception of genetic effects and mental health among residents of Kawauchi village, 10 years after the Fukushima Daiichi Nuclear Power Plant accident

Mengjie Liu

O12-03 Risk perception regarding a nuclear accident and common factors related to health among guardians living residing near a restarted nuclear power plant in Japan after the Fukushima accident

Hitomi Matsunaga

O12-04 Human selfishness and environmental problem

Takahiko Katoh

O12-05 Dairen Institute of Hygiene = Dairen Branch, Kanto Army Epidemic Prevention and Water Purification was disclosed through the National Archives of Japan

Katsuo Nishiyama

March 23 (Wednesday) venue 4

9:00-9:50 **Oral 13** Immunology, Genetics and Epigenetics **S184** Chairperson: Hirohisa Takano O13-01 Physiological role of *O*-linked *N*-acetylglucosamine transferase in macrophage nitric oxide production Ken Shirato O13-02 Oxidative DNA Damage Mechanism by Myricetin an Amyloid β Aggregation Inhibitor Yuichiro Hirao O13-03 Effect of *RNF213* suppression on endoplasmic reticulum stress **Sharif Ahmed** Functional genomics screening using bacterial ORF library to discover novel metabolic Achilles's heels in O13-04 human cancers Hiroto Katoh 5'UTR-dependent regulation of translational activity of SARS-CoV-2 O13-05

10:00-10:40 Oral 14 Biological Monitoring 1

S185

Chairperson: Koji Harada

Tatsuo Ito

- O14-01 The Interdisciplinary Investigation on the Technology, the Environment, and Fertility (IITEF) Project
- O14-02 Association of Sperm Mitochondrial DNA Copy Number with Semen Quality: The IITEF Project

 Momoka Masuda
- O14-03 Relationship between smoking status, cadmium exposure, and sperm mitochondrial DNA copy number: The IITEF project

Cindy Rahman Aisyah

O14-04 Associations of phthalate ester exposure with semen parameters and sperm mitochondrial DNA copy number: The IITEF project

Yuki Mizuno

10:50-11:30 Oral 15 Biological Monitoring 2

S186

Chairperson: Michihiro Kamijima

- O15-01 Exposure to bisphenols in Japanese females from 1993 to 2016: Temporal trends and associated health risks
 Zhaoqing Lyu
- O15-02 Dietary Inflammatory Index and Telomere Length in Japanese Female University Students

 Momoka Masuda
- O15-03 The factors affecting the elemental distribution in deciduous teeth

 Aya Hisada
- O15-04 Evaluation of the Variance of Time-series data of Flicker Fusion Threshold by Zung Self-Rating Depression Scale

Nobuyoshi Harada

March 23 (Wednesday) venue 3

13:00-13:50 Oral 16 Maternal and Child Health 1

S187

Chairperson: Hidetoshi Mezawa

O16-01 Lack of concern about body image and health during pregnancy linked to excessive gestational weight gain and small-for-gestational-age deliveries: JECS study

Naw Awn J-P

O16-02 Association between n-3 PUFAs intake during pregnancy and risk of infant maltreatment: the Japan Environment and Children's study

Kenta Matsumura

O16-03 Feelings about pregnancy and mother-infant bonding as predictors of persistent psychological distress in the perinatal period: The Japan Environment and Children's Study

Narumi Tokuda

O16-04 Birth month and infant gross motor development: Results from the Japan Environment and Children's Study (JECS)

Kahoko Yasumitsu-Lovell

O16-05 Association between surgical procedures under general anesthesia in infancy and developmental outcomes at 1 year: The Japan Environment and Children's Study

Yoshiko Kobayashi

14:00-14:50 Oral 17 Maternal and Child Health 2

S188

Chairperson: Kei Hamazaki

O17-01 Perinatal mental health support during pregnancy : Focus on psychiatric disorders, newborn weight and psychotropic drug.

Arisa Tanaka

O17-02 Contributing factors to change comprehensive judgment from 18-month-olds to 3-year-olds health checkups

Ritsuko Nishide

O17-03 Relationship between classification by Autism-Spectrum Quotient (AQ) for children and gaze measured by Gazefinder

Sayaka Kato

O17-04 Association between starting age of contacting mobile device and grade of behavioral problems among children in the Hokkaido Study on Environment and Children's Health

Chihiro Miyashita

O17-05 Association between Children's Screen Time and their Behavioral Problems in Hokkaido Study on Environmental and Children's Health

Naomi Tamura

15:00-16:00 Oral 18 Maternal and Child Health 3

S190

Chairperson: Yasuaki Saijo

- O18-01 Comparative study on overuse of feature phone and smart phone in Japanese pregnant women
- O18-02 The relationship between malocclusion and habits in elementary school children in Kuroishi city, Aomori prefecture.

Keishi Sato

- O18-03 Relationship between sensory profile and autism-spectrum quotient in schoolchildren Yuki Ito
- O18-04 Association of lifestyle with physical constitution and serum lipids among school children Yuya Makino
- O18-05 Association between allergic disposition and their symptoms among school children Kazue Ojima
- O18-06 Effects of early-life exposure to dust mite allergen and endotoxin on the development of asthma and wheezing: the Japan Environment and Children's Study

Hideki Hasunuma

March 23 (Wednesday) venue 4

13:00-13:50 Oral 19 Infectious Diseases and Control Measures

S191

Chairperson: Yoshiki Kuroda

O19-01 Analysis of the current situation of sexually transmitted diseases in Osaka Prefecture (comparison with the current situation at our hospital)

Takahisa Nagai

O19-02 Measurement and comparison of influenza vaccine-induced cell-mediated immunity.

Naruhito Otani

O19-03 Neutralizing and Epitope-specific Antibodies against respiratory syncytial virus in Maternal and Cord Blood Paired Samples

Fumi Mashiyama

O19-04 Post-pandemic epidemiology of varicella in Japan: The impact of public health and social measures on varicella dynamics

Ayako Suzuki

O19-05 Assessing the risk of a domestic outbreak of dengue infection under climate change Katsuma Hayashi

14:00-14:50 Oral 20 COVID-19 1

S192

Chairperson: Nobumichi Kobayashi

O20-01 Quantitative risk assessment of activity-dependent clustering of COVID-19

Minami Ueda

O20-02 The impact of mobility promotion on the spatial spread of COVID-19

Asami Anzai

O20-03 Estimation of vaccine effectiveness against coronavirus disease (COVID-19) using surveillance data Hiroshi Nishiura

O20-04 Averted number of COVID-19 cases and deaths directly attributed to vaccination program in Japan Taishi Kayano

O20-05 Real-time monitoring of vaccine-induced immunity against COVID-19 in Japan

Misaki Sasanami

15:00-15:50 Oral 21 COVID-19 2

S194

Chairperson: Hiroshi Nishiura

O21-01 Long COVID occurrence in COVID-19 survivors

Kanon Abe

O21-02 One-year changes in weight, physical activity, and complaints in Japanese employees: before and during the COVID-19 pandemic

Machi Suka

O21-03 Results of a semi-structured interview survey of university students in the clinical laboratory department for COV-19 vaccine

Yoshitoku Yoshida

O21-04 The relationships between participation in Kayoinoba and COVID-19 preventive health behaviors among older people: JAGES 2019-2020 study

Miyako Kimura

O21-05 Sense of coherence, preventive behaviors and coping among mothers of young children before and during COVID-19 pandemic

Miyako Kimura

Poster 1 Air, Water, Physical Factors, and Radiation on Health and Illness

S198

- **P-001** Comparison of total PM_{2.5} mass and its component concentrations in the 23 Tokyo wards Takehiro Michikawa
- **P-002** Short-time effects of chemical constituents of ambient particulate matter on pulmonary function among students

Satoru Kobayashi

- P-003 Distribution of phthalate esters and alternative materials in house dust in Japan Yohei Inaba
- **P-004** The effects of environmental exposure to simulate the International Space Station on cardiovascular regulation

Yojiro Ogawa

P-005 Exposure level of radio frequency electro-magnetic field among Japanese children in the Hokkaido Study on Environment and Children's Health

Keiko Yamazaki

- P-006 Cross Sectional Survey on Risk Perception About Health Effects of Electromagnetic Fields
 Hiroaki Miyagi
- **P-007** Role of neurotransmitters and neurotrophic factors in anxiety-like behaviors in rats exposed to air pollutants in early life

Tin Tin Win Shwe

P-008 Effect of Diesel Exhaust Particles on Human Lung Fibroblast Migration Yingji Li

Poster 2 Ecological Effects and Dynamics of Metals

S200

P-009 Effects of trace amount of Pb on zebrafish embryonic development

Yuta Komoike

P-010 Comparison of health effects of indium tin oxide nanoparticles after a subcutaneous injection or an intratracheal instillation in rat

Akiyo Tanaka

P-011 Creation of indium lung model mice by nasal administration of indium oxide

Keiko Yamasaki

- **P-012** Effects of low-level lead exposure on attention and hippocampal D,L-serine in postweaning rat pups Yuki Omori
- **P-013** Effects of the micro vesicles released from Cd-exposed cells on osteoblasts and osteoclasts Wataru Miyazaki
- **P-014** Eleven-year cohort study on farmers orally exposed to cadmium through consumption of self-harvested rice

Hyogo Horiguchi

Poster 3 Ecological Effects and Dynamics of Chemical Substances (Endocrine-Disrupt ing Chemicals and Pesticides) S201

P-015 PM_{2.5}-bound polycyclic aromatic hydrocarbons inside and outside a primary school classroom in Beijing, China

Lulu Zhang

P-016 Alterations in brain structure associated with perinatal dioxin exposure in men living in the most dioxincontaminated area in Vietnam

Hoa Vu Thi

P-017 Prenatal dioxin exposure and increased ADHD traits in a hot spot of dioxin contamination in Vietnam: Comparisons between children at 5 and 8 years of age

Muneko Nishijo

P-018 Usage of personal care products at pubertal age: The Hokkaido Study

Hideyuki Masuda

- **P-019** Relationship between urinary organophosphate metabolites and fecal short chain fatty acid Mai Hayashi
- **P-020** Study on exposure assessment of phthalate esters and alternative materials through baby toys Kanae Bekki
- **P-021** Association between principal components of serum perfluoroalkyl substances and global DNA methylation levels in peripheral blood leukocytes of Japanese women

Hiroaki Itoh

- **P-022** Hexachlorocyclohexane induces the changes of character in 3T3-L1 adipocytes Junetsu Ogasawara
- **P-023** Effects of maternal exposure to methyl mercury and polychlorinated biphenyls in offspring Rie Yanagisawa

Poster 4 Ecological Effects and Dynamics of Chemical Substances (Organic Solvents, Silica, and Asbestos) S203

P-024 Mutagenic effect of Fullerene C60 nanoparticle

Yoshiko Seki

P-025 Evaluation of immunological characteristics related to efficacy of treatment with nivolumab in malignant mesothelioma by principal component analysis

Yasumitsu Nishimura

P-026 The effects of fluoride on the central nervous system via drinking water of female adult rats evaluating by behavioral tests

Satoko Suzuki

P-027 Hydrophobic chemicals eluted from oral-ingested microplastics related to biological effects Shinichi Chisada

Poster 5 Biological Monitoring and Biomarkers

S204

P-028 A pilot study of metabolomics and lipidomics analysis of urine from patients with Alzheimer's disease. Yumi Watanabe

P-029* Discovery of serum biomarker for unstable carotid plaque in asymptomatic patients Yuki Kitamura

P-030 IQOS aerosol exposure causes oxidative stress in lung tissue and alveolar macrophages in mice.

Marie Sawa

P-031 Development of comprehensive analysis method for fungicides in human urine using mice
Hitomi Wasada

P-032 Biomonitoring of phthalate metabolites in diaper-extracted urine of Japanese toddlers using liquid chromatography-mass spectrometry

Nayan Chandra Mohanto

P-033 Validation and Application of Analytical Method of Urinary Repellents

Nanami Nishihara

P-034 Exposure to plastic additives among childrenThe Hokkaido Study

Atsuko Ikeda-Araki

Poster 6 Preventive Medicine and Health Promotion

S206

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