

Se 2018 Program

Oral Presentation

Monday, October 1, 2018

16:00 – 18:00 Registration
18:30 – 20:30 Welcome Party

Tuesday, October 2, 2018

7:30 - 8:30 **Breakfast**

Session I. Nutrition, Food and Agricultural Sciences of Selenium

Chairperson, Okhee Lee, N Tejo Prakash

9:00 -9:20 Okhee Lee (Dept. of Food Science and Nutrition, Yongin University, S-Korea)

O – 01 Serum selenium and zinc levels in female collegiate athletes and their associations with nutrients intake

9:20 -9:40 Liwei Cui, Xiaoying Lin, Jiating Zhao, Bai Li and Yu-Feng Li (CAS Key Laboratory for Biological Effects of Nanomaterials and Nanosafety, China)

O – 02 Translocation and transformation of Se in hyperaccumulator plant from Enshi, China and its possible role against Hg contamination

9:40 -10:00 Kazuaki Takahashi, Noriyuki Suzuki and Yasumitsu Ogra (Graduate School of Pharmaceutical Sciences, Chiba Univ., Japan)

O – 03 Effects of gastrointestinal microflora on metabolism and nutritional availability of bioselenocompounds

10:00 -10:20 **Coffee Break**

10:20 -10:40 Zhenying Hu^{1,2}, Noriyuki Suzuki² and Yasumitsu Ogra² (¹State Key Laboratory of Food Science and Technology, NanChang University, China, ²Laboratory of Toxicology and Environmental Health, Graduate School of Pharmaceutical Sciences, Chiba University, Japan)

O – 04 Speciation of selenium in brown rice fertilized with selenite and effects of selenium fertilization on rice proteins

10:40 -11:00 N.Tejo Prakash¹, Sumit Jaiswal², Ranjana Prakash³ and Sandeep Prabhu⁴ (¹School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, India, ²Department of Environmental Science and Engineering, Marwadi University, Rajkot, India, ³School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, India, ⁴Department of Veterinary Sciences, The Pennsylvania State University, University Park, PA, USA.)

O – 05 Quantification, bioaccessibility and cytoprotective activity of selenium containing protein from Se-accumulated Indian mustard

11:00 -11:20 Koji Ueda (Faculty of Pharmacy, Meijo University, Japan)

O – 06 Glutathione-mediated cellular uptake of Se

11:30 -13:00 **Lunch Break**

Session II. Function of Selenoprotein – I

Chiarperson, Mitsuko HiroSawa, Byeong Jae Lee

13:00 -13:20 Mitusko HIROSAWA^{1*}, Yasuyuki TABEL¹, Koji HAYAKAWA¹, Daisuke NARA¹, Kunio SHIOTA^{1, 2}, Satoshi TANAKA¹ (¹Cellular Biochemistry, Department of Animal Resource Sciences/Veterinary Medical Science, The University of Tokyo, JAPAN, ²Waseda Research Institute for Science and Engineering, Waseda University, JAPAN)

O – 07 Epigenetic Effect of Selenoprotein H

13:20 -13:40 Ki Young Kim¹, Geun-Hee Kwak¹, Mahendra Pratap Singh¹, Vadim N. Gladyshev², Hwa-Young Kim¹ (¹Department of Biochemistry and Molecular Biology, Yeungnam University College of Medicine, Republic of Korea, ²Division of Genetics, Department of Medicine, Brigham and Women's Hospital, Harvard Medical School, USA)

O – 08 Selenoprotein MsrB1 deficiency exacerbates acetaminophen-induced hepatotoxicity *via* increased oxidative damage

13:40 -14:00 Hui Chen, Shimu Liu, Jierui Chen, Jiazuan Ni, and Qiong Liu (College of Life Sciences & Oceanography, Shenzhen University, China)
O – 09 Selenoprotein W destabilizes abnormally accumulated tau proteins via thiol-blocking to intervene the process of Alzheimer's disease

14:00 -14:20 **Coffee Break**

14:20 -14:40 J Na, J Jung, J Bang, Q Lu, M Han, JE Choi, JH Kim and BJ Lee (School of Biological Sciences, Seoul National University, Korea)
O – 10 Selenophosphate synthetase 1 regulates redox homeostasis, defense and proliferation

14:40 -15:00 Hongmei Liu, Long Mao and Leilei Guo (School of Chemistry and Chemical Engineering, Huazhong University of Science and Technology, People's Republic of China)
O – 11 Selenium Nanoparticles Alleviate High-fat Diet-induced Hyperlipidemia and Atherosclerosis in ApoE-deficient Mice

15:00 -15:20 Taro Sakamoto and Hirotaka Imai (School of Pharmacy, Kitasato University, Japan)
O – 12 H₂O₂ produced by superoxide dismutase SOD-2 activates sperm in *Caenorhabditis elegans*

15:20 -15:40 **Coffee Break**

Session III. Selenium in Medicine - I

Chiarperson, Anatoly V. Skalny, Feng Zhang

15:40 -16:00 Feng Zhang, Yujie Ning, Ping Li and Yan Wen (The Institute of endemic diseases, School of Public Health, Xi'an JiaoTong University, the Key Laboratory of trace elements and endemic diseases of the National Health committee of PR of China, the Coordination Center in Shaanxi on Endemic Diseases and Health Promotion in Silk Road, China)
O – 13 Integrative analysis of DNA methylation and mRNA expression profiles confirmed the role of selenocompound in the pathogenesis of Kashin-Beck Disease

- 16:00 -16:20 Yan Wen, Sen Wang, Xiong Guo and Feng Zhang (The Institute of endemic diseases, School of Public Health, Xi'an JiaoTong University, the Key Laboratory of trace elements and endemic diseases of the National Health committee of PR of China, the Coordination Center in Shaanxi on Endemic Diseases and Health Promotion in Silk Road, China)
- O – 14** The DNA methylation changes of the environmental responsive genes of selenium in Kashin-Beck disease
- 16:20 -16:40 An-Sik Chung (Department of Biological Sciences, Korea Advanced Institute of Science and Technology, Korea)
- O – 15** Selenite maintains cell survival and proliferation by activating PI3-K/Akt and blocking ASK1/JUN signals
- 16:40 -17:00 **Coffee Break**
- 17:00 -17:20 Zhong-Hao Zhang, Jia-Zuan Ni and Guo-Li Song (College of Life Sciences and Oceanography, Shenzhen University, P.R.China)
- O – 16** Selenomethionine improves synaptic plasticity via modulating the balance of synaptic and extrasynaptic NMDA receptors in an Alzheimer's disease mouse model
- 17:20 -17:40 Donghyun Kang, Jisu Jung, Byeong Jae Lee, Jin-Hong Kim (Department of Biological Sciences, Seoul National University, South Korea)
- O – 17** The role of trace elements zinc and selenium in OA pathogenesis
- 17:40 -18:00 Anatoly V. Skalny^{1,2,3*}, Alexey A. Tinkov^{1,2} (¹Yaroslavl State University, Russia, ²Peoples' Friendship University of Russia (RUDN University), Russia, ³All-Russian Research Institute of Medicinal and Aromatic Plants (VILAR), Russia)
- O – 18** Selenium in autism spectrum disorder (ASD) and its clinical features
- 18:30 -20:00 **Dinner**
- 20:00 -21:00 **Poster Session I with drink bar**

Wednesday, October 3, 2018

7:30 - 8:30 **Breakfast**

Session IV. Selenium (Bio) Chemistry, Selenium "Omics"

Chiarperson, David G. Churchill, Yasumitsu Ogra

8:30 -8:50 Kei Goto, Ryutaro Kimura, Ryosuke Masuda, Takafumi Karasaki and Shohei Sase (Department of Chemistry, School of Science, Tokyo Institute of Technology, Japan)

O – 19 Modeling of Selenoprotein-derived Reactive Intermediates by Utilizing Cradled Selenocysteins

8:50 -9:10 Michio Iwaoka (Department of Chemistry, School of Science, Tokai University, Japan)

O – 20 Chemical Synthesis of Selenopeptides with Modified Functions

9:10 -9:30 Mahesh B. Halle¹, Woo Hyun Lee¹, Tesla Yudhistira¹, Shingo Shimodaira^{1,2}, Sandip V. Mulay¹ and David G. Churchill^{1,2,3}
(¹Department of Chemistry, Korea Advanced Institute of Science and Technology (KAIST), Republic of Korea, ²Center for Catalytic Hydrocarbon Functionalizations, Institute for Basic Science (IBS), Republic of Korea, ³KAIST Institute for Health Science and Technology (KIHST), KAIST, Republic of Korea.)

O – 21 Enlisting selenium for biothiols and ROS detection in fluorescence based chemosensing tools in the health sciences

9:30 -9:50 **Coffee Break**

9:50 -10:10 Noriyuki Suzuki, Hiroki Watanabe, Arata Shinohara, Haruka Kimura and Yasumitsu Ogra (Graduate School of Pharmaceutical Sciences, Chiba University, JAPAN)

O – 22 Development of chemical tools based on interaction of selenium functional groups with chromophores

10:10 -10:30 Yasumi Anan¹ and Yasumitsu Ogra² (¹Laboratory of Health Chemistry, Showa Pharmaceutical University, Japan, ²Laboratory of Toxicology and Environmental Health, Graduate School of Pharmaceutical Sciences, Chiba University, Japan)

- O – 23** Effects of selenocyanate on the reduction of inorganic mercury toxicity in rats

10:30 -10:50 Yasumitsu Ogra¹, Yasumi Anan² and Noriyuki Suzuki¹ (¹Laboratory of Toxicology and Environmental Health, Graduate School of Pharmaceutical Sciences, Chiba University, Japan, ²Laboratory of Health Chemistry, Showa Pharmaceutical University, Japan)

- O – 24** Analytical Chemistry of Selenium by Mass Spectrometry

Session V. SHIMADZU SEMINAR

Chairperson, Kaishi Akazawa

11:00 -11:30 Yusuke Kawano^{1, 2}, Kengo Suzuki², and Iwao Ohtsu^{1, 2}
(¹Faculty of Life and Environmental Sciences, University of Tsukuba, Japan, ²Department of Research and Development, Euglena Co., Ltd., Japan)

- O – 25** Sulfur index® for metabolomics analysis of comprehensive biological sulfur compounds using LC-MS/MS system

11:30 -13:00 **Lunch Break sponsored by SHIMADZU**

Session VI. Selenoprotein in Disease— I

Chairperson, Xin Gen Lei, Yoshiro Saito

13:00 -13:20 Fei Gao¹, Shuping Li¹, Yuanyuan Wu¹, Jiaqiang Huang¹, Sen Wu² and Xin Gen Lei^{1,3} (¹Beijing Advanced Innovation Center for Food Nutrition and Human Health and ²State Key Laboratory of Agrobiotechnology, College of Biological Sciences, China Agricultural University, China, ³Cornell University, USA)

- O – 26** Novel Avian Models for Studying Selenoprotein Functions

13:20 -13:40 Masahiro Yoshida¹, Shunsuke Minagawa^{1*}, Taro Sakamoto², Jun Araya¹, Hirotaka Imai² and Kazuyoshi Kuwano¹ (¹Division of Respiratory Diseases; Department of Internal Medicine; Jikei University School of Medicine, Japan, ²School of Pharmaceutical Sciences, Kitasato University, Tokyo, Japan)

- O – 27** Involvement of GPx4-mediated ferroptosis in COPD pathogenesis

13:40 -14:00 Xiao Zhang¹, Tong Wang^{1*} and Shie Li² (¹Institute of Keshan Disease, Chinese Center for Endemic Disease Control, Harbin Medical University, China, ²Harbin Center for Disease Control and Prevention, China)

O – 28 Spatial ecological study of Keshan Disease and Head-hair Selenium

14:00 -14:20 **Coffee Break**

14:20 -14:40 Tong Wang^{1*}, Xiao Zhang¹ and Shie Li² (¹Institute of Keshan Disease, Chinese Center for Endemic Disease Control, Harbin Medical University, China, ²Harbin Center for Disease Control and Prevention, China)

O – 29 Spatial ecological study of Keshan disease and selenoprotein P

14:40 -15:00 Hirofumi Mitsu^{1,2} (¹Department of Endocrinology and Metabolism, Kanazawa University Graduate School of Medical Sciences, Japan ²PRESTO, Japan Science and Technology Agency, Japan)

O – 30 Serum selenoprotein P, but not selenium, predicts future hyperglycemia in a general Japanese population

15:00 -15:20 Yoshiro Saito (Department of Medical Life Systems, Faculty of Life and Medical Sciences, Doshisha University, Japan)

O – 31 Selenoprotein P as a redox regulator *in vivo*: Development of the strategy for the protection of pancreatic β cells

15:20 -15:40 **Coffee Break**

Session VII. Selenoprotein Biosynthesis, Selenium in

Microbiology

Chiarperson, Hisaaki Mihara, Yan Zhang

15:40 -16:00 Ryuta Tobe¹, Atsuki Shimizu¹, Satoru Hagita¹, Takuya Ogawa², Yuu Hirose³, Tejo Prakash⁴, Tatsuo Kurihara², and Hisaaki Mihara¹ (¹Department of Biotechnology, College of Life Sciences, Ritsumeikan University, JAPAN, ²Institute for Chemical Research, Kyoto University, JAPAN, ³Department of Environmental and Life Sciences, Toyohashi University of Technology, JAPAN, ⁴School of Energy and Environment, Thapar Institute of Engineering and Technology, INDIA)

- O – 32** Functional analysis of thioredoxin in selenium delivery in bacteria
- 16:00 -16:20 Mst. Ishrat Jahan, Ryuta Tobe, and Hisaaki Mihara (Department of Biotechnology, College of Life Sciences, Ritsumeikan University, Japan)
- O – 33** Functional analysis of a novel porin-like protein, Extl, from *Geobacter sulfurreducens* and its implication in selenite and tellurite reduction
- 16:20 -16:40 Hisaaki Mihara, Miki Jinno, Nana Shimamoto, Mst. Ishrat Jahan, Yoshinobu Yamane, Momoka Kawakami, Yudai Ishido, and Ryuta Tobe (Department of Biotechnology, College of Life Sciences, Ritsumeikan University, Japan)
- O – 34** Selenium metabolism in *Geobacter sulfurreducens*
- 16:40 -17:00 **Coffee Break**
- 17:00 -17:20 Osamu Otsuka^{1,2}, Ryo Nishizato², Minoru Okuno², Hiroyuki Mutou², Naoto Watanabe², Tsutomu Matsuo², Fumiya Kotake³, Mitsuo Yamashita^{1,3} (¹Rare Metal Bioresearch Center, Research Organization for Advanced Engineering SIT, Shibaura Institute of Technology, Japan, ²KFC LTD, Japan, ³Shibaura Institute of Technology, Japan)
- O – 35** Bioremediation of selenate-contaminated soils using *Pseudomonas stutzeri* NT-I
- 17:20 -17:40 Toshifumi Sakaguchi¹, Seina Tanaka¹, Yoshiko Okamura², Yoriko Tominaga² and Makoto Maeda (¹Department of Life Sciences, Prefectural University of Hiroshima, Japan, ²Graduate School of Advanced Sciences of Matter, Hiroshima University, Japan, ³N-BARD, Hiroshima University, Japan)
- O – 36** Formation of amorphous nano-sized depositions that contained selenium and heavy metal by an aerobic marine selenate-reducer, *Shewanella* sp. strain KND-1
- 17:40 -18:00 Gaopeng Li and Yan Zhang (College of Life Sciences and Oceanography, Shenzhen University, P. R. China)
- O – 37** *In silico* prediction of new genes involved in selenium metabolism in eukaryotes

18:30 -20:00 **Dinner**

20:00 -21:00 **Poster Session II with drink bar**

Thursday, October 4, 2018

7:30 - 8:30 **Breakfast**

Session VIII. Function of Selenoprotein – II, Selenoprotein in Disease – II

Chiarperson, Hirotaka Imai, Ick Young Kim

9:00 -9:20 Jun Ki Jang, Jea Hwang Lee, and Ick Young Kim (Division of Life Sciences, Korea University, Republic of Korea)

O – 38 Degradation of Selenoprotein S and Selenoprotein K during adipocyte differentiation

9:20 -9:40 Xiaojing Li and Shiwen Xu (College of Veterinary Medicine, Northeast Agricultural University, P. R. China)

O – 39 SelenoS Silencing Triggers Mouse Hepatoma Cells Apoptosis and Necrosis Involving in Intracellular Calcium Imbalance and ROS-mPTP-ATP

9:40 -10:00 XX Zheng¹, BY Ren², J Zhou¹, J Tian², HM Liu¹ and KX Huang¹ (¹Hubei Key Laboratory of Bioinorganic Chemistry & Materia Medica, School of Chemistry and Chemical Engineering, Huazhong University of Science and Technology, China, ²College of Life Science and Oceanography, Shenzhen University, China)

O – 40 Effect of Selenof Gene Knockout on Glucose and Lipid Metabolism in Mice

10:00 -10:20 **Coffee Break**

10:20 -10:40 Hirotaka Imai^{*1,2}, Kahori Oka^{1,2}, Tomoko Koumura^{1,2}, Takeshi Kumagai^{1,2}, Taro Sakamoto^{1,2} and Masaki Matsuoka^{1,2} (¹School of Pharmaceutical Sciences, Kitasato University, Japan, ²AMED-CREST)

- O – 41** Lipid peroxidation dependent cell death by GPx4 depletion involves different cell death pathway from ferroptosis

10:40 -11:00 Takashi Ueta^{1,2}, Osamu Sakai^{1,3}, Takatoshi Uchida^{1,4} Hirotaka Imai⁵

(¹Department of Ophthalmology, Graduate School of Medicine and Faculty of Medicine, The University of Tokyo, Japan, ²Department of Ophthalmology, National Center for Global Health and Medicine, Japan, ³New Drug Research Laboratories, Senju Pharmaceutical Co., Ltd., Japan, ⁴Senju Laboratory of Ocular Sciences, Senju Pharmaceutical Co., Ltd., Japan, ⁵School of Pharmaceutical Sciences, Kitasato University, Japan)

- O – 42** Selenoprotein glutathione peroxidase 4 is involved in ocular pathogenesis in mice

11:00 -11:20 Xiong Guo, Feng Zhang, Sen Wang, Xiao-Wei Shi, Xi Wang, Yan Wen, Yu-Jie Ning and Cuiyan Wu (The Institute of endemic diseases, School of Public Health, Xi'an JiaoTong University, the Key Laboratory of trace elements and endemic diseases of the National Health committee of PR of China, the Coordination Center in Shaanxi on Endemic Diseases and Health Promotion in Silk Road, China)

- O – 43** Progress in molecular biology of Kashin-Beck disease

11:30 -13:00 **Lunch Break**

Session IX. Selenoprotein in Disease-III, Other Chalcogens

Chiarperson, Sihoon Lee, Shiwen Xu

13:00 -13:20 Hirofumi Ogino¹, Koichi Murano², Tomofumi Okuno¹, Tomohiro Arakawa¹ and Hitoshi Ueno¹ (¹Faculty of Pharmaceutical Sciences, Setsunan University, Japan, ²Division of Hygenic Chemistry, Osaka Institute of Public Health, Japan)

- O – 44** Role of supplementary seleno-L-methionine on oxidative stress and the induction of insulin resistance in high fat diet-fed NSY mice

13:20 -13:40 Eunkuk Park¹, Jaehoon Jung² Osamu Araki³, Katsuhiko Tsunekawa³, So Young Park⁴, Masami Murakami³, Seon-Yong Jeong¹ and Sihoon Lee⁵ (¹Department of Medical Genetics, Ajou University School

of Medicine, Korea, ²Department of Internal medicine, Gyeongsang National University School of Medicine, Korea, ³Department of Clinical Laboratory Medicine, Gunma University Graduate School of Medicine, Japan, ⁴Department of Internal Medicine, Dankook University College of Medicine, Korea, ⁵Department of Internal Medicine, Gachon University School of Medicine, Korea)

- O – 45** Concurrent TSHR mutations and DIO2 T92A polymorphism result in abnormal thyroid hormone metabolism

13:40 -14:00 Liming Shen, Kaoyuan Zhang, Na Jin, Yuxi Zhao, Qiong Liu, Jiazuan Ni and Javed Iqbal (College of Life Sciences and Oceanography, Shenzhen University, P. R. China)

- O – 46** Selenium positively affects the proteome of 3xTg-AD mice hippocampus and cortex by altering the expression of various key proteins- Unveiling the mechanistic role of selenium in AD prevention

14:00 -14:20 **Coffee Break**

14:20 -14:40 Qianru Chi, Yilin Luan and Shu Li (College of Veterinary Medicine, Northeast Agricultural University, China)

- O – 47** Selenium Deficiency Can Induce Chondrocyte Apoptosis through gga-miR-138-5p Targeting SelM-activated Mitochondrial Pathway

14:40 -15:00 Mengyuan Xing and Shiwen Xu (College of Veterinary Medicine, Northeast Agricultural University, P. R. China)

- O – 48** Selenium Regulates Chicken Skeletal Muscle Development Through miR-365-3p-SelT Axis

15:00 -15:20 Qi Liu and Ziwei Zhang (College of Veterinary Medicine, Northeast Agricultural University, P. R. China)

- O – 49** MiR-2954 induces autophagy and apoptosis by targeting PI3K in myocardium induced by Se deficiency

15:20 -15:40 Jie Yang and Ziwei Zhang (College of Veterinary Medicine, Northeast Agricultural University, P. R. China)

- O – 50** Role and Mechanism of Thioredoxin (Trx) in Chicken Cardiomyocytes Injury

15:40 -15:50 **Closing**

17:30 Departure from Doshisha Biwako Retreat Center

18:00 -20:00 Farewell Party
Restaurant Sho-Sui

Friday, October 5, 2018

Check out and Departure

(Optional) Roundtable on Planning Scientific cooperation and joint research

(Optional) Excursion, Kyoto City Tour

Poster Session

Tuesday, October 2, 2018

20:00-21:00

Poster Session I

- PI-1 Toru Takeda^{1,2}, Toshiki Takagai², Keizi Hirose¹, Mikiko Kotake¹, and Seika Takayama¹ (¹Department of Advanced Bioscience, Faculty of Agriculture, Kindai University, Japan, ²Advanced Bioscience, Graduate School, Kindai University, Japan)
Post-translational activation of NAD-glyceraldehyde dehydrogenase by specific incorporation of selenium via glutathione in plant
- PI-2 Miho Iwataka¹, Sakura Yoshida¹, Takeshi Fuchigami¹, Mamoru Haratake² and Morio Nakayama¹ (¹Graduate School of Biomedical Sciences, Nagasaki University, Japan, ²Faculty of Pharmaceutical Sciences, Sojo University, Japan)
Separation and bioavailability of selenium in Asari shellfish
- PI-3 Ryosuke Mori¹, Risako Hayashi¹, Sakura Yoshida¹, Takeshi Fuchigami¹, Mamoru Haratake² and Morio Nakayama¹ (¹Graduate School of Biomedical Sciences, Nagasaki University, Japan, ²Faculty of Pharmaceutical Sciences, Sojo University, Japan)
A selenium transport function of selenotrisulfide into neuronal cells
- PI-4 Sakura Yoshida¹, Eriko Hori¹, Sakiko Ura¹, Takeshi Fuchigami¹, Mamoru Haratake² and Morio Nakayama¹ (¹Graduate School of Biomedical Sciences, Nagasaki University, Japan, ²Faculty of Pharmaceutical Sciences, Sojo University, Japan)
A comprehensive analysis of selenium-binding proteins using its reactive metabolic intermediate
- PI-5 Mamoru Haratake¹, Shinya Matsumoto², Wataru Uehara², Hideaki Nakamura¹, Sakura Yoshida² and Morio Nakayama² (¹Faculty of Pharmaceutical Sciences, Sojo University, Japan, ²Graduate School of Biomedical Sciences, Nagasaki University, Japan)

A nanoparticulate glutathione peroxidase mimic based on a selenocystine-tryptophane-pullulan ternary conjugate

- PI-6 Taketoshi Tsuchida, Noriyuki Suzuki and Yasumitsu Ogra (¹Graduate School of Pharmaceutical Science, Chiba Univ., Japan)
Synthetic study of natural organoselenium compound “selenoneine”
- PI-7 Quan Zhou, Marcelo Verdugo and Yasumitsu Ogra (Laboratory of Toxicology and Environmental Health, Graduate School of Pharmaceutical Sciences, Chiba University, Japan)
Gene Expression Involved in Antimony Metabolism in HEK-293 cells
- PI-8 Margarita G. Skalnaya¹, Alexey A. Tinkov^{1,2}, Anatoly V. Skalny^{1,2,3} (¹Peoples' Friendship University of Russia (RUDN University), Russia, ²Yaroslavl State University, Russia, ³All-Russian Research Institute of Medicinal and Aromatic Plants (VILAR), Russia)
Selenium status of (pre)diabetic postmenopausal women
- PI-9 Andrei R. Grabeklis^{1,2}, Anatoly V. Skalny^{1,2,3} (¹Yaroslavl State University, Russia, ²Peoples' Friendship University of Russia (RUDN University), Russia, ³All-Russian Research Institute of Medicinal and Aromatic Plants (VILAR), Russia)
Lack of association between hair selenium levels and Down's syndrome

Wednesday, October 3, 2018

20:00-21:00

Poster Session II

- PII-1 Kaito Kiriya¹, Atsuki Shimizu¹, Ryuta Tobe¹, Yuu Hirose², Tejo N. Prakash³, and Hisaaki Mihara¹ (¹Department of Biotechnology, College of Life Sciences, Ritsumeikan University, Japan, ²Department of Environmental and Life Sciences, Toyohashi University of Technology, Japan, ³School of Energy and Environment, Thapar Institute of Engineering and Technology, India)
Selenite reduction by thioredoxin and its homologs in bacteria

- P1I-2 Yudai Ishido, Yoshinobu Yamane, Mst. Ishrat Jahan, Olajumoke Hajararat Kadiri, Ryuta Tobe, and Hisaaki Mihara (Department of Biotechnology, College of Life Sciences, Ritsumeikan University, Japan)
Purification and characterization of a putative rhodanese-like protein GSU2940 from *Geobacter sulfurreducens*
- P1I-3 Momoka Kawakami, Nana Shimamoto, Miki Jinno, Mst. Ishrat Jahan, Ryuta Tobe, and Hisaaki Mihara (Department of Biotechnology, College of Life Sciences, Ritsumeikan University, Japan)
Effect of a novel multiheme-containing selenoprotein (MHSEP) deficiency on selenium metabolism in *Geobacter sulfurreducens*
- P1I-4 Kohei Makimura¹, Isana Nada¹, Hirotaka Tajima¹, Ryuta Tobe¹, Tomoya Imai², Prakash Tejo³, and Hisaaki Mihara¹ (¹Department of Biotechnology, College of Life Sciences, Ritsumeikan University, Japan, ²Research Institute for Sustainable Humansphere, Kyoto University, Japan, ³ School of Energy and Environment, Thapar Institute of Engineering and Technology, India)
Selenite reduction mechanisms in *Cellulomonas* sp. D3a
- P1I-5 Itsuki Watanabe¹, Honoka Ikuta¹, Yuka Kuzuno¹, Ryuta Tobe¹, Jun Kawamoto², Tatsuo Kurihara², Yuu Hirose³, Tejo N Prakash⁴, and Hisaaki Mihara¹ (¹Department of Biotechnology, College of Life Sciences, Ritsumeikan University, JAPAN, ²Institute for Chemical Research, Kyoto University, JAPAN, ³Department of Environment and Life Sciences, Toyohashi University of Technology, JAPAN, ⁴School of Energy and Environment, Thapar Institute of Engineering and Technology, INDIA)
Selenite and tellurate reduction by sulfite reductase-like protein in *Bacillus* sp. NTP-1
- P1I-6 Sen Wang, Yan Wen, Bin Wang, Wuhong Tan & Xiong Guo (¹The Institute of endemic diseases, School of Public Health, Xi'an JiaoTong University, the Key Laboratory of trace elements and endemic diseases of the National Health committee of PR of China, the Coordination Center in Shaanxi on Endemic Diseases and Health Promotion in Silk Road , China)
The roles of Se-related genes in the pathogenesis of the endemic dilated cardiomyopathy Keshan disease

- P11-7 Byung Cheon Lee (¹College of Life Sciences and Biotechnology, Korea University, South Korea)
MsrB1 regulates innate immune response through control of anti-inflammatory cytokine expression in macrophages
- P11-8 Yoichi Takeda¹, Yuki Imamura¹, Takashi Kikuma¹, Akira Seko², and Yukishige Ito^{2,3} (¹Ritsumeikan University, Japan, ²JST-ERATO, Japan, ³RIKEN, Japan)
Analysis of Selenoprotein F Binding to UGGT
- P11-9 Kahori Oka^{1,2}, Rie Fukuda¹, Moe Nagahisa¹, Masaki Matsuoka^{1,2}, and Hirotaka Imai^{1,2} (¹School of Pharmaceutical Sciences, Kitasato University, Japan, ²AMED-CREST)
Role of Lipo-3 gene in GPx4 depleted novel cell death