The 3rd International Congress on Lipid Metabolism & Atherosclerosis

The 48th Fall Conference of the Korean Society of Lipidology & Atherosclerosis

Grand Hilton Seoul, Korea
September 12(Fri) ~ 13(Sat), 2014
### September 12(Fri), 2014

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**Venue**: Convention Hall A, Convention Center 4F

### Oral Presentation 1

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Toru Takahashi¹*, Miki Tokunaga¹, Ram B. Singh²  
Fukuoka Women's University¹, Halberg Hospital and Research Institute, Japan³

**OP1-2**  
Cardiac VEGF System in Diabetic Estrogen/Estrogen Receptor Manipulated Animal Model  
Subrina Jesmin¹, Arifur Rahman¹, Majedul Islam¹, Farzana Sohael¹, Nobutake Shimojo³,  
Sayeeda Nusrat Sultana¹, Naoto Yamaguchi², Osamu Okazaki⁴  
Health and Disease Research Center for Rural Peoples, Bangladesh¹, Institute of Clinical Medicine, University of Tsukuba,  
Tsukuba, Japan², Center for Health Science, Ibaraki Prefectural University, Ami, Japan³, National Center for Global Health  
and Medicine, Tokyo, Japan⁴

**OP1-3**  
Oxidative Stress Promotes Atherosclerosis via Impaired Lipophagy in Peroxiredoxin 1 Deficient Macrophages  
Se-Jin Jeong*, Sinae Kim, Goo Taeg Oh  
Department of Life Science and GT5 Program, Ewha Womans University, Seoul, Korea

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SR-BI Mediates High Density Lipoprotein (HDL)-induced Anti-inflammatory Effect in Macrophages  
Seong-Min Kim*, Gyun Jee Song, Ki-Hoon Park, Jihoe Kim, Inho Choi, Kyung-Hyun Cho  
School of Biotechnology, Yeungnam University, Gyeongsan, Research Institute of Protein Sensor, Yeungnam University, Gyeongsan,  
BK21Plus Program Serum Biomedical Research and Education Team, Yeungnam University, Gyeongsan, Korea

**OP1-5**  
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Hyoung Kyu Kim*, Tae Hee Ko, In-Sung Song, Seung Hun Jeong, Sung Ryul Lee,  
Hye Jin Heo, Nari Kim, Kyung Soo Ko, Byoung Doo Rhee, Jin Han  
National Research Laboratory for Mitochondrial Signaling Laboratory, Department of Physiology, College of Medicine,  
Cardiovascular and Metabolic Disease Center, Inje University, Busan, Korea

**OP1-6**  
Fatty Acid Synthase Regulates Macrophage Activation  
Sang Eun Lee*, Eun-Byeol Hong, Hyo-Soo Kim, Young-Bae Park  
Division of Cardiology, Department of Internal Medicine, Seoul National University Hospital, Seoul, Korea

### Oral Presentation 2

**OP2-1**  
Prevalence and Control of Dyslipidemia in Chinese Adults  
Jianhong Li*, Linmin Wang, Mei Zhang, Yichong Li, Linhong Wang  
The National Center for Chronic and Noncommunicable Disease Control and Prevention, Chinese Center for Disease Control and Prevention, Beijing, China

**OP2-2**  
Increased Risk of Diabetes and Post-diabetes Adverse Events in Patients with Stroke: Two Nationwide Retrospective Cohort Studies  
Yi-Chun Chou  
Department of Physical Medicine and Rehabilitation, China Medical University Hospital, Taichung, Taiwan, School of Medicine,  
Taipei Medical University, Taipei, Taiwan

**OP2-3**  
Healthy Dietary Pattern Exerts Positive Effect on Cardiometabolic Risk in Healthy Adolescents Even after Controlling for Socioeconomic, Pubertal Growth Status and Lifestyle Factors  
Leng Huat Foo¹*, Nurul-Fadilah Abdullah¹, Pey Sze Teo¹, Mohd Ezane Aziz²  
School of Health Sciences, University Sains Malaysia, Health Campus, Kubang Kerian 16150, Kelantan, Malaysia¹, School of Medical Sciences, University Sains Malaysia, Malaysia²
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OP2-4 Dietary Intervention Replacing Carbohydrate with Protein and Fat has Greater Effect on Peripheral Blood Mononuclear Cell Metabolites Than on Plasma Metabolites in Patients with Prediabetes or Type-2 Diabetes
Minjoo Kim1,3*, Jey Sook Chae1,2, Jung Hyun Kwak1,2, Mi-Hyang Lee1,3, Miso Kang1,3, Jong Ho Lee1,2,3,4
National Leading Research Laboratory of Clinical Nutrigenetics/Nutrigenomics, Department of Food and Nutrition, College of Human Ecology, Yonsei University, Seoul1, Research Center for Silver Science, Institute of Symbiotic Life-TECH, Yonsei University, Seoul2, Department of Food and Nutrition, Brain Korea 21 PLUS Project, College of Human Ecology, Yonsei University, Seoul3, Cardiovascular Research Institute, Yonsei University College of Medicine, Seoul, Korea4

OP2-5 Impact of Obesity on the Clinical Outcomes in Diabetic Patients with Acute Myocardial Infarction
Mi-Seon Ji*, Myung-Ho Jeong
Cardiovascular Convergence Research Center of Chonnam National University Hospital, Gwangju, Korea

OP2-6 Circulating Anti-elastin Antibody Levels and Arterial Disease Characteristics: Association with Arterial Stiffness and Atherosclerosis
Seung-Hyun Lee1*, Kihyuk Shin1, Sungha Park1, Seok-Min Kang1, Seung-Hyo Lee2
Division of Cardiology, Severance Hospital, Department of Internal Medicine, Yonsei University College of Medicine, Seoul1, Graduate School of Medical Science and Engineering, Korea Advanced Institute of Science and Technology, Daejeon, Korea2

POSTER PRESENTATION

Time & Date : 13:20~14:00, September 13(Sat), 2014
Venue : Diamond Hall, Convention Center 3F

Poster Presentation 1

PP1-1 Increased Risk of Stroke and Post-stroke Outcomes in Patients with Diabetes: Two Nationwide Studies
Chien-Chang Liao1*, Ta-Liang Chen1, Chun-Chuan Shih2
School of Medicine, Taipei Medical University, Taipei, Taiwan1, School of Chinese Medicine for Post-Baccalaureate, I-Shou University, Kaohsiung City, Taiwan2

PP1-2 Serum Leptin Can be used as Biological Marker to Detect Metabolic Syndrome in Premenopausal Females; A Cross-sectional Study
Jeevantha Nanayakkara1*, Sarath Lekamwasam2, Sri Lanka2, Chandrani Liyanage3
Senior lecturer Department of Pharmacology Faculty of Medicine, University of Ruhuna, Galle, Sri Lanka1, Dean Faculty of Medicine, University of Ruhuna Galle, Sri Lanka2, Head, Department of Community Medicine, Faculty of Medicine, University of Ruhuna, Galle, Sri Lanka3

PP1-3 Mitochondrial Oxidative Phosphorylation (OXPHOS) Dysfunction Leads to Insulin Resistance and Increase Myokines Secretion in C2C12 Cells
Min Kyeong Kim1*, Se hyun Chae2, Dae hee Hwang2, Soo-Heon Kwak1, Hye Seung Jung3, Young Min Cho1, Young Joo Park1, Kyong Soo Park3
Department of Internal Medicine, Seoul National University College of Medicine, Seoul1, Center for Systems Biology of Plant Senescence and Life History, Institute for Basic Science, Daegu Gyeongbuk Institute of Science and Technology, Daegu2, Department of Molecular Medicine and Biopharmaceutical Sciences, Graduate School of Convergence Science and Technology, Seoul National University, Seoul, Korea3

PP1-4 Inhibition of Estrogen Related Receptor γ (ERRγ) Attenuates Vascular Calcification
Seung Hee Choi1*, Ji-Hyun Kim1, Yeon Kyung Choi3, Ji-min Lee2, Hyeon-Ji Kang2, Bo-Yoon Park2, Chae-Myeong Ha1, Byong-keol Min1, Themis Thoudam1, Hye Ji Lee2, Keun-Gyu Park2, In-Kyu Lee1
Department of Biochemistry and Cell Biology, Kyungpook National University School of Medicine, Daegu1, Department of Biomedical Science, Graduate School, Kyungpook National University, Daegu2, Departments of Internal Medicine, Kyungpook National University Hospital, Daegu, South Korea3
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Poster Presentation 2

PP2-1 Higher Level of Endothelin-1 in Hypertensive Rural Women in Bangladesh. Results of a Community based Cross-sectional Study
Arifur Rahman2*, Subrina Jesmin1, Yoshio Iwashima4, Masao Moroi5, Atahar Ali2, Amiruzaman Khan1, Shamima Akter3, Majedul Islam1, AKM Ahsan Habib2, Satoru Kawano1, Naoto Yamaguchi6
Graduate School of Medicine, University of Tsukuba, Japan1 Shahid Ziaur Rahman Medical College, Bogra, Bangladesh2, Health & Disease Research Center for Rural Peoples (HDRCRP), Dhaka, Bangladesh3, National Cerebral and Cardiovascular Center, Suita City, Osaka, Japan4, National Center for Global Health and Medicine (NCGM), Tokyo, Japan5, Center for Global Health Science, Ibaraki Prefectural University, Ami, Japan6

PP2-2 Effects of Cocoa on Blood Glucose, TNF-alpha, Oxidative Stress, and Nitric Oxide in Patients with Hyperlipidemia
Miki Tokunaga1*, Toru Takahashi1, Ram B. Singh2
Fukuoka Women's University, Fukuoka, Japan1, Halberg Hospital and Research Institute, Moradabad, Japan2

PP2-3 Adipokine Retnla Protects against Hypercholesterolemia and Atherosclerosis
Mi-Ran Lee1*, Chae-ji Lim1, You-Han Lee1, Jong-Gil Park1, Seong Keun Sonn1, In-Hyuk Jung1, Se-Jin Jeong1, Sejin Jeon2, Myoungsook Lee2, Ki Sook Oh3, Young Yang4, Jae Bum Kim3, Hueng-Sik Choi2, Woojin Jeong2, Tae-Sook Jeong5, Won Kee Yoon5, Hyoung Chin Kim6, Jae-Hoon Choi6, Goo Taeg Oh1
Department of Life Sciences, Ewha Womans University, Seoul1, Department of Food and Nutrition, Sungshin Women's University, Seoul2, Department of Life Science, Research Center for Women's Disease, Sookmyang Women's University, Seoul3, National Creative Research Initiatives Center for Adipose Tissue Remodeling, Department of Biological Sciences, Institute of Molecular Biology and Genetics, Seoul National University, Seoul4, National Creative Research Initiatives Center for Nuclear Receptor Signals, Hormone Research Center, School of Biological Sciences and Technology, Chonnam National University, Gwangju5, National Research Laboratory of Lipid Metabolism & Atherosclerosis, KRB, Daejeon6, Biomedical Mouse Resource Center, KRB, Chungbuk7, Department of Life Science, College of Natural Sciences, Research Institute for Natural Sciences, Hanyang University, Seoul, Korea8

PP2-4 Increased Arterial Stiffness is Associated with Poor Collaterals of Chronic Total Occlusion of Coronary Artery
Kihyun Jeon*, Hack-Lyoung Kim, Jae-Bin Seo, Woo-Young Chung, Sang-Hyun Kim, Joo-Hee Zo, Myung-A Kim
Division of Cardiology, Department of Internal Medicine, Seoul National University Boramae Medical Center, Seoul National University College of Medicine, Seoul, Korea

POSTER EXHIBITION

Time & Date : 09:00~18:00, September 12(Fri)~13(Sat), 2014
Venue : Diamond Hall, Convention Center 3F

Lipid Metabolism

PE1 Incorporation of SAA in rHDL Containing apoA-I Impaired Functions and Structure via Displacement of apoA-I from HDL
Eun young Lee*, Ju-Yong Park, Kyung-Hyun Cho
School of Biotechnology, Yeungnam University, Gyeongsan, Research Institute of Protein Sensor, Yeungnam University, Gyeongsan, BK21plus Program Serum Biomedical Research and Education Team, Yeungnam University, Gyeongsan, Korea

PE2 Kimchi Methanol Extract and Kimchi Active Compound, 3’-(4’-hydroxy-3,5’-dimethoxyphenyl) Propionic Acid Down-regulate CD36 in THP-1 Macrophages Stimulated by oXLDL
Hyun Ju Kim*, Ye-Rang Yun1, Yeong-Ok Song1, Choi Hak-Jong2, Jang Ja-Yong2, Oh Young Jun2, Choi En Ji2
Department of Food Science and Nutrition, Kimchi Research Institute, Pusan National University, Busan1, World Institute of Kimchi, Gwangju, Korea2
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PE3 Overexpression of Human Proinsulin Impaired Beneficial Functions of Reconstituted High-density Lipoprotein (HDL)
Ju-Yong Park*, Kyung-Hyun Cho
School of Biotechnology, Yeungnam University, Gyeongsan, Research Institute of Protein Sensor, Yeungnam University, Gyeongsan, BK21plus Program Serum Biomolecular Research and Education Team, Yeungnam University, Gyeongsan, Korea

PE4 Chronic Ethanol Consumption Promotes the Impairment of Glucose Metabolism and Type 2 Diabetes: Role of FFA-induced ATF3 on Sphingolipid Composition
Keon Jae Park*, Ji Yeon Kim, Dae Yeon Lee, Yoo Jeong Lee, Gyu Hee Kim, Won-Ho Kim
Division of Metabolic Diseases, Center for Biomedical Sciences, National Institutes of Health, Cheongju, Korea

PE5 Effect of Modern Lifestyle Habits on Prevalence of Obesity and Lipid Levels among School Going Adolescents
Prerana Singh1*, Shivendra Kumar Singh2, Narsingh Verma1, Sandeep Bhattacharya1, Abbas Ali Mahdi3, B Anjum3, Saumya Mishra1, Narsingh Verma1
Department of Physiology, King George's Medical University, Lucknow, India1, Upgraded Department of Community Medicine and Public Health, King George's Medical University, Lucknow, India2, Department of Biochemistry, King George's Medical University, Lucknow, India

Coronary Artery & Other Vascular Diseases

PE6 The Difference between Vascular Smooth Muscle Contraction and Relaxation in Four Different Aortic Regions and Their Aortic Parameters in Rats
Bolor-Erdene Sarankhuu*, Nari Kim
National Research Laboratory for Mitochondrial Signaling Laboratory, Department of Physiology, College of Medicine, Cardiovascular and Metabolic Disease Center, Inje University, Busan, Korea

PE7 Increased Risk of Acute Myocardial Infarction and Mortality in Patients with Systemic Lupus Erythematosus: Two Nationwide Retrospective Cohort Studies
Chien-Chang Liao, Ta-Liang Chen
School of Medicine, Taipei Medical University, Taipei, Taiwan

PE8 Early versus Delayed Thrombolysis in Acute Arterial Occlusion
Chung Kang*, Dong In Nam, Il Hyung Jung, Won Yu Kang, Sun Ho Hwang, Wan Kim, Sang Cheol Cho
Division of Cardiology, Department of Internal Medicine, Gwangju Veterans Hospital, Gwangju, Korea

PE9 Prevalence of Metabolic Syndrome Components among Early Age Onset Acute Coronary Syndrome Patients in Bangladesh
Arifur Rahman1*, Subrina Jesmin1, AKM Ahsan Habib3, Sibly Haider3, Amiruzaman Khan3, Majedul Islam1, Omar Faruque1, Sayeeda Nusrat Sultana1, Naoto Yamaguchi3, Satoru Kawano1, Toufiquar Rahman2, Masao Moroi3
Graduate School of Medicine, Faculty of Medicine, University of Tsukuba, Tsukuba, Japan1, Health and Disease Research Center for Rural Peoples, Dhaka, Bangladesh2, Shahid Ziaur Rahman Medical College, Bogra, Bangladesh3, National Center for Global Health and Medicine, Tokyo, Japan4, Center for Health Science, Ibaraki Prefectural University, Ami, Japan5, National Institute of Cardiovascular Disease, Dhaka, Bangladesh6

PE10 PrdxII Deficiency Promotes Inflammatory Abdominal Aortic Aneurysms in Angiotensin II-infused Mice
Na Young Ko1*, Jong-Gil Park1, Goo Taeg Oh1
Department of Life Sciences and GT5 program, Ewha Womans University, Seoul, Korea1, Department of Pathology and Laboratory Medicine, New York, NY 10065, USA2

PE11 Study of Alpha Adducin Gene Polymorphism in Young Essential Hypertensive North Indians
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**PE12** Beneficial Functions of Apolipoprotein A-I and High-density Lipoprotein Were Impaired by Incorporation of b-amyloid  
So-Hee Kim*, Ju-Yong Park, Kyung-Hyun Cho  
School of Biotechnology, Yeungnam University, Gyeonggan, Research Institute of Protein Sensor, Yeungnam University, Gyeonggan, School of Biotechnology, Yeungnam University, Gyeonggan, Korea

**Cardiometabolic Risk Factors and Biomarkers in Atherosclerosis**

**PE13** The Metabolites in Peripheral Blood Mononuclear Cells Showed Greater Differences between Patients with Prediabetes or Type 2 Diabetes and Healthy Controls Than Those in Plasma  
Hyeon Yeong Ahn 1,2,3,4, Mi-Hyang Lee 2,3, Minkyung Kim 2,3, Young Ju Lee 2,3, Cho Rong Seo 1,2,3,4, Jong Ho Lee 1,2,3,4  
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**PE14** CD137 Signaling in the Vulnerable Plaques of Mouse Model  
In-Hyuk Jung 1,2, Jing Jin 1, Daeyong Kim 1, Goo Taeg Oh 1  
Department of Life Sciences and GT5 Program, Ewha Womans University, Seoul 1, Department of Veterinary Pathology, College of Veterinary Medicine, Seoul National University, Seoul, Korea 2

**PE15** Modified High-density Lipoproteins by Artificial Sweetener, Aspartame and Saccharin, Showed Loss of Anti-atherosclerotic Activity and Toxicity in Zebrafish  
Jae-Yong Kim*, Ki-Hoon Park, Kyung-Hyun Cho  
School of Biotechnology, Yeungnam University, Gyeonggan, Research Institute of Protein Sensor, Yeungnam University, Gyeonggan, BK21Plus Program Serum Biomedical Research and Education Team, Yeungnam University, Gyeongsan, Korea

**PE16** Functional and Structural Difference of apoA-I and apoA-IV in Reconstituted HDL State with Different Particle Size  
Jeong-Ah Yoo 1,3,4,5, WookJu Jang 1,3,4,5, Yoon Park 2, Seung-Taek Lee 2, Kyung-Hyun Cho 1,2,3,4,5  
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**PE17** Inflammation and Subclinical Atherosclerosis in Patients of Psoriasis  
Kumari Asha 1,2, Archana Singal 2, Suman Bala Sharma 1, Amitesh Aggarwal 3  
Department of Biochemistry, University College of Medical Sciences (University of Delhi) and G.T.B. Hospital, Dilshad Garden, Delhi, India 1, Department of Dermatology, University College of Medical Sciences (University of Delhi) and G.T.B. Hospital, Dilshad Garden, Delhi, India 2, Department of Medicine, University College of Medical Sciences (University of Delhi) and G.T.B. Hospital, Dilshad Garden, Delhi, India 3

**PE18** Metabolic Syndrome among Rural Bangladeshi Women: A Community Survey  
Arifur Rahman 1,2, Subrina Jesmin 1, Farzana Sohail 1, Majedul Islam 1, Tanjila Khatun 1, Sayeeda Nusrat Sultana 1, Omar Faruque 1, Naoto Yamaguchi 1, Masao Moroi 3, Osamu Okazaki 3, Michiaki Hiroe 3, Satoru Kawamoto 1  
Graduate School of Medicine, Faculty of Medicine, University of Tsukuba, Japan 1, Health & Disease Research Center for Rural Peoples (HDRCRP), Bangladesh 2, National Center for Global Health and Medicine (NCGM), Japan 3

**PE19** An Analysis of Association between Circulatory Level of Endothelin-1 and Metabolic Syndrome in Bangladesh Rural Women  
Arifur Rahman 1,2, Subrina Jesmin 1, Farzana Sohail 1, Majedul Islam 1, Ahsan Habib 4, Shamima Akter 3, Omar Faruque 1, Nobutake Shimojo 1, Sohel Zadeh 1, Naoto Yamaguchi 1, Masao Moroi 3, Osamu Okazaki 3, Michiaki Hiroe 3, Satoru Kawamoto 1  
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PE20 Ribose Treated apoA-I and HDL Showed Severe Glycation to Exacerbate Atherosclerosis and Senescence
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PE21 Association between Arterial Stiffness and Serum L-octanoylcarnitine and Lactosylceramide in Overweight Middle-aged Subjects: 3-year Follow-up Study
Minjoo Kim1,2*, Saem Jung2, Jey Sook Chae1,2, Jung Hyun Kwak2,3, Gayoung Song2,3, Jong Ho Lee1,2,3,4
National Leading Research Laboratory of Clinical Nutrigenetics/Nutrigenomics, Department of Food and Nutrition, College of Human Ecology, Yonsei University, Seoul1, Department of Food and Nutrition, Brain Korea 21 PLUS Project, College of Human Ecology, Yonsei University, Seoul2, Research Center for Silver Science, Institute of Symbiotic Life-TECH, Yonsei University, Seoul3, Cardiovascular Research Institute, Yonsei University College of Medicine, Seoul, Korea4

PE22 SJJ1 Deficiency Exacerbates Atherosclerosis via Increasing Infiltrated Immune Cells into Aortic Vascular Endothelial Cells
Sejin Jeon*, Je-Jin Jeong, In-Hyuk Jung, Jaejung Kim, Goo Taeg Oh
Division of Life Science and GTS Program, Ewha Womans University, Seoul, Korea

PE23 Age-related Increase in LDL-cholesterol is Associated with Enhanced Oxidative Stress and Disturbed Sphingolipid Metabolism
Saem Jung1,2*, Minjoo Kim1,2, Hyeon Yeong Ahn1,3, Minkyung Kim1,2, Hye Jin Yoo1,2, Jong Ho Lee1,2,3,4
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PE24 Modified Lipoproteins by Acrylamide Showed More Atherogenic Properties and Exposure of Acrylamide Induces Acute Hyperlipidemia and Fatty Liver Changes in Zebrafish
So-Mang Llim*, Seong-Min Kim, Ji-Mi Baek, Kyung-Hyun Cho
School of Biotechnology, Yeungnam University, Gyeongsan, Research Institute of Protein Sensor, Yeungnam University, Gyeongsan, BK21plus Program Serum Biomedical Research and Education Team, Yeungnam University, Gyeongsan, Korea

PE25 Role of Estrogen Receptors in Regulating VEGF Signaling in Female Mice Heart
Subrina Jesmin1*, Arifur Rahman1, Farzana Sohaed1, Majedul Islam1, Nobutake Shimojo2, Tanzila Khatun1, Sayeeda Nusrat Sultana1, Naoto Yamaguchi3, Saturo Kawano1
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PE26 VEGF Angiogenic Signaling System in Metabolic Syndrome in Rural Bangladeshi Women
Subrina Jesmin1*, Arifur Rahman1, Majedul Islam1, Shamima Akter1, Mizanur Rahman1, Sayeeda Nusrat Sultana1, Naoto Yamaguchi1, Nobutake Shimojo2, Osamu Okazaki3, Masao Moroi4, Saturo Kawano1
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PE27 National Burden of Non-communicable Disease Risk Factors in Bangladesh
Subrina Jesmin1*, Arifur Rahman2, AKM. Ahsan Habib2, Majedul Islam1, Farzana Sohaed2, Tanjila Khatun1, Sayeeda Nusrat Sultana1, Omar Fanaque2, Nobutake Shimojo2, Osamu Okazaki3, Masao Moroi4, Naoto Yamaguchi5, Saturo Kawano1
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PE28 The Association of Homeostatic Model Assessment of Insulin Resistance with Lipids And Lipid Peroxidation: A Cross-sectional Study in Type 2 Diabetic Patients
Zahra Bahadoran1,*, Fereidoun Azizi2, Parvin Mirmiran1
Nutrition and Endocrine Research Center, Research Institute for Endocrine Sciences, Shahid Beheshti University of Medical Sciences1, Endocrine Research Center, Research Institute for Endocrine Sciences, Shahid Beheshti University of Medical Sciences, Islamic Republic of Iran2

PE29 A Possible Link between H.pylori-induced Gastric Atrophy and Dyslipidemia: Cross-sectional Study in Type 2 Diabetic Patients
Zahra Bahadoran1,*, Maryam Zarif Yeganeh1, Fereidoun Azizi2, Parvin Mirmiran1
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PE30 Optimal High-density Lipoprotein Cholesterol Cutoff for Predicting Cardiovascular Disease for the Korean Population
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PE31 Family History of Diabetes Increases the Risk of Metabolic Syndrome and Type 2 Diabetes
Eun Roh1,2,*, Kyung Min Kim1,3, Soo Lim1,3, Hak Chul Jang1,3, Sung Hee Choi1,3
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PE32 Comparisons of the Effects of Vildagliptine and Glimepiride on Glycemic Variability and Cardiovascular Risk Factors
Kyeong Seon Park*, Soo-Heon Kwak, Young Min Cho, Kyong Soo Park, Seong Yeon Kim, Hye Seung Jung
Department of Internal Medicine, Seoul National University College of Medicine, Seoul, Korea

Management of Atherosclerosis, Hypertension, and Dyslipidemia

PE33 Adverse Outcomes after Non-neurological Surgery in Patients with Stroke: A Nationwide Cohort Study
Chien-Chang Liao*, Ta-Liang Chen
Department of Anesthesiology, Taipei Medical University Hospital, Taipei, Taiwan

PE34 High Intake of Sodium Chloride Exacerbates Degradation of Human Lipoproteins and Impairment of Reproductive Capacity via Testicular Toxicity in Zebrafish
Eun young Lee*, Gyun Jee Song, Kyung-Hyun Cho
School of Biotechnology, Yeungnam University, Gyeongsan, Research Institute of Protein Sensor, Yeungnam University, Gyeongsan, K21plus Program Serum Biomedical Research and Education Team, Yeungnam University, Gyeongsan, Korea

PE35 The Association between Ambulatory Blood Pressure Profile and Brachial-ankle Pulse Wave Velocity in Untreated Hypertensive Subjects
Hack-Lyoung Kim*, Jae-Bin Seo, Woo-Young Chung, Sang-Hyun Kim, Joo-Hee Zo
Seoul National University Boramae Medical Center, Seoul, Korea

PE36 Dyslipidemia and Electrolyte Metabolism in Essential Hypertensive North Indians
Qulsoom Naz1,*, Narsingh Verma2, Mohammad Serajuddin1, A. A. Mehdi4, M. L. Patel5
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PE37  Anti-atherogenic Effect of Mitochondrial Catalytic Enzyme 3 in Hyperlipidemic Mice
Shin Kyoung Hur*, Shin Kyoung Hur, Ji Young Yoo, Goo Taeg Oh
Department of Life Science and GT5 Program, Ewha Womans University, Seoul, Korea

PE38  Selective HDAC6 Inhibitor Attenuates Renal Fibrosis and Epithelial-Mesenchymal Transition in Angiotensin II-hypertensive Mice
Sin Young Choi1*, Hae Jin Kee1, Yuhee Ryu1, Soo-Na Cho1, Gwi Ran Kim1, Hyung-Suk Kim2,
In-Kyeom Kim3, Jae Yeong Cho3, Young Joon Hong3, Hyung Wook Park1, Youngkeun Ahn1,
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Kyungpook National University School of Medicine, Daegu, Korea3

PE39  Beneficial Effects of Honokiol on Hypercholesterolemia in High-Cholesterol Diet-fed Mice
Young-Je Kim*, Ye Jin Kim, Ri Ryu, Myung-Sook Choi, Un Ju Jung
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Daegu, Korea

PE40  A Functional Food-based Diet Approach for Treatment of Dyslipidemia in Type 2 Diabetic Patients: A Randomized Clinical Trial
Zahra Bahadoran1*, Mahdieh Golzarand1, Somayeh Hossainpour1, Fereidoun Azizi2, Parvin Mirmira1
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Nutritional Aspects of Atherosclerosis

PE41  Antihypercholesterolemic Effect of Pinus Koraiensis in Human Subjects with Borderline Hypercholesterolemia
Hansongyi Lee1,2*, Ryowon Choue1,2, Hyunjung Lim1,2
Department of Medical Nutrition, Graduate School of East-West Medical Science, Kyung Hee University, Yongin1, Research Institute of Medical Nutrition, Kyung Hee University, Seoul Korea2

PE42  Association of Serum Ferritin with Metabolic Syndrome in Korean Men
Eugene Chang*, Seohyun Lee, Soojung Oh, Yangha Kim
Department of Nutritional Science and Food Management, Ewha Womans University, Seoul, Korea

PE43  Effects of Arginyl-fructose Supplementation on Glucose Control in Subjects with Prediabetes and Newly Diagnosed Type 2 Diabetes
Jung Hyun Kwak1,2*, Jey Sook Chae1,2, Hyeon Yeong Ahn1,3, Young Ju Lee1,4, Jong Ho Lee1,2,4,5
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PE44  High Sodium Intake Enhances Weight Gain in Children with ACC Mutant Of Grk4 A486V: A 3-Year Cohort Study
Myoungsook Lee1*, In-Kwon Yeo3, Jung Ran Choi2, Haengshin Lee4, Dae Young Kwon5
Department of Food and Nutrition, Sungshin Women's University1, Research Institute of Obesity Science, Sungshin Women's University2, Department of Statistics, Sookmyung Women's University3, Korea Health Industry Development Institute4, Nutrition and Metabolism Research Group, Korea Food Research Institute, Korea5
PE45  High Consumption of Iron(II) Cause Hyperlipidemia and Sterility via Degradation of Serum Lipoprotein in Zebrafish  
So-Hee Kim*, Kyung-Hyun Cho  
School of Biotechnology, Yeungnam University, Gyeongsan, Research Institute of Protein Sensor, Yeungnam University, Gyeongsan, School of Biotechnology, Yeungnam University, Gyeongsan, Korea

PE46  Effects of Sweet Taste Preference on Nutrient Intake and Serum Lipid Profiles in Korean Women  
Yoonjin Shin*, Hyeyoung Park, Seunghae Kim, Yangha Kim  
Department of Nutritional Science and Food Management, Ewha Womans University, Seoul, Korea

PE47  Effects of Fast Food Consumption on Lipid and Lipoprotein Levels after 3-years of Follow-up: Tehran Lipid and Glucose Study  
Zahra Bahadoran1*, Fereidoun Azizi2, Parvin Mirmiran1  
Nutrition and Endocrine Research Center, Research Institute for Endocrine Sciences, Shahid Beheshti University of Medical Sciences1, Endocrine Research Center, Research Institute for Endocrine Sciences, Shahid Beheshti University of Medical Sciences, Islamic Republic of Iran2

PE48  Dietary Phytochemical Index and Subsequent Changes of Lipid and Lipoprotein Levels: A Prospective Approach in Tehran Lipid and Glucose Study  
Zahra Bahadoran1*, Mahdieh Golzarand1, Fereidoun Azizi2, Parvin Mirmiran1  
Nutrition and Endocrine Research Center, Research Institute for Endocrine Sciences, Shahid Beheshti University of Medical Sciences1, Endocrine Research Center, Research Institute for Endocrine Sciences, Shahid Beheshti University of Medical Sciences, Islamic Republic of Iran2

PE49  A Second-generation of Kinesin Spindle Protein Inhibitor-SB743921 Induces Cell Death via the Mitochondrial Pathway in Multiple Myeloma Cells  
Bayalagmaa Nyamaa*, Jin Han  
National Research Laboratory for Mitochondrial Signaling Laboratory, Department of Physiology, College of Medicine, Cardiovascular and Metabolic Disease Center, Inje University, Busan, Korea

PE50  Isolation of Anti-obesity Compounds from Korean Soybean Paste  
Changhyun Roh*  
Korea Atomic Energy Research Institute, Daejeon, Korea

PE51  Stroke Risk and Outcomes in Patients with Traumatic Brain Injury: 2 Nationwide Studies  
Chien-Chang Liao*, Ta-Liang Chen  
Department of Anesthesiology, Taipei Medical University Hospital, Taipei, Taiwan

PE52  Overexpression of Sjj24 Induced Abnormal Cardiac Development  
Han Na Lee*, Chae-ji Lim, Sejin Jeon, Goo Taeg Oh  
Department of Life Sciences and GT5 program, Ewha Womans University, Seoul, Korea

PE53  For Definition of Metabolic Syndrome in Adolescents  
Hyo-Jin Kim1*, Han Byul Jang1, Kyung-Hee Park2, Jae Heon Kang3, Hye-Ja Lee1, Sang Ick Park1  
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PE54  Strong Association of IL-6 Gene with Obese Male Infertility-study on an Indian Populations  
Kamla Kant Shukla1*, Sanjeev Misra2, Praveen Sharma1, Abbas Ali Mahdi2, Saryu Naryan Sankhwar3  
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PE55  A Mutant of Apolipoprotein A-I, V156K, in rHDL Accelerate Heart Regeneration in Zebrafish with Least Inflammation and Scarring under Consumption of Both Normal and Hypercholesterolemic Diet
Ki-Hoon Park*, Kyung-Hyun Cho
School of Biotechnology, Yeungnam University, Gyeongsan, Research Institute of Protein Sensor, Yeungnam University, Gyeongsan, BK21plus Program Serum Biomedical Research and Education Team, Yeungnam University, Gyeongsan, Korea

PE56  Total Polyphenols Content and Radical Scavenging Activity of Fermented Gastrodia Elata Blume by Phellinus Linteus
Mi Hyun Kim
School of Food Science, Kyungil University, Gyeongsan, Korea

PE57  Anticancer and Anti-obesity Activities of Fermented Gastrodia Elata Blume
Mi Hyun Kim
School of Food Science, Kyungil University, Gyeongsan, Korea

PE58  Different Prognostic Factors According to Left Ventricular Systolic Function in Patients with Acute Myocardial Infarction
Moon-Sun Im1*, Hack-Lyoung Kim1, Jae-Bin Seo1, Woo-Young Chung1, Joo-Hee Zo1, Myung-A Kim1, Kyung-Woo Park2, Bon-Kwon Koo2, Hyo-Soo Kim2, In-Ho Chae3, Dong-Ju Choi3, Myeong-Chan Cho4, Young-Jo Kim5, Ju Han Kim6, Youngkeun Ahn6, Myung Ho Jeong6, Sang-Hyun Kim6
Seoul National University Boramae Medical Center, Seoul1, Seoul National University Hospital, Seoul2, Seoul National University Bundang Hospital, Seongnam3, Department of Internal Medicine, Chungbuk National University, Cheongju4, Yeungnam University Hospital, Daegu5, Chonnam National University Hospital, Gwangju, Korea6

PE59  Cortisol Stimulates the Pump Activity of Na, K-ATPase Possibly through Non-genomic Manner
Sung Ryul Lee*, Tae Hee Ko, Hyoung Kyu Kim, Jae Boum Youm, Kyung Soo Ko, Byoung Doo Rhee, Jin Han, Nari Kim
Cardiovascular and Metabolic Disease Center, College of Medicine, Inje University, Busan, Korea

PE60  Shockwave Promotes Macrophage Migration and May Facilitate Macrophage Egress
Wonkyoung Cho*, Myeongsook Jeong, Young Mi Park
Ewha Womans University Medical School, Department of Molecular Medicine, Seoul, Korea

PE61  Risk and Mortality of Traumatic Brain Injury in Stroke Patients: Two Nationwide Cohort Studies
Yi-Chun Chou1*, Chien-Chang Liao2, Ta-Liang Chen3
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