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1982-2022

Korean Endocrine Society
40 Years Together,
New Leap Forward!



SICEM 2021

The 9th Seoul International Congress of Endocrinology and Metabolism
in conjunction with the 40th Annual Scientific Meeting of the Korean Endocrine Society

“Beyond COVID-19: Rebuilding the Future of Endocrinology”

October 28(Thu) - 30(Sat), 2021

BPEX (Busan Port International Exhibition & Convention Center)

Hybrid Congress

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WELCOME MESSAGE

Dear Colleagues,

It is our great pleasure to invite you to attend the 9th Seoul International Congress of Endocrinology and Metabolism in conjunction with the 40th Annual Scientific Meeting of Korean Endocrine Society (SICEM 2021), to be held 28-30 October 2021, in both Busan Port International Exhibition & Convention Center (BPEX), Busan and Online as a hybrid congress. The SICEM provides a platform for education of endocrinologists, trainees, medical students, and members of treatment teams from across the globe. The hallmarks of the meeting are a broad range of outstanding hands-on learning opportunities and discussion on the most recent developments in research, along with unparalleled access to peers, mentors, and expertise from all parts of the world, which is a 'must-attend' endocrine conference in Asia.

The Program Committee, in cooperation with our Integrated Research Groups (Bone, Thyroid, Diabetes, Adrenal Gland, Obesity, Pituitary, and every part), is planning an outstanding and stimulating Scientific Program. The Congress will address training needs, and equip teams with the skills required to achieve best outcomes in our ever-changing environment.

An exciting series of named lectures will be delivered by world-renowned experts in their respective fields. The program will focus on acquisition of knowledge and skills through best practices in education and training methods. More than 70 sessions on topics will be offered. The scientific program will include research oral presentations and posters.

Even if the worldwide Pandemic makes it difficult to attend a conference in person, we firmly believe that our passion for research can overcome these limitations.

We look forward to meeting you at the conference both online and offline.

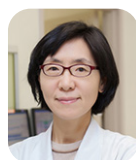
Yours sincerely,



Jae Hoon CHUNG, M.D., Ph.D.
Chairman,
Korean Endocrine Society



Soon Jib YOO, M.D., Ph.D.
President,
Board of Directors
Korean Endocrine Society



Min-Seon KIM, M.D., Ph.D.
Director,
Committee of Scientific Affairs
Korean Endocrine Society

SICEM 2021

ORGANIZATION

The 9th Seoul International Congress of Endocrinology and Metabolism
in conjunction with the 40th Annual Scientific Meeting of the Korean Endocrine Society

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Informatics : Tae Yong KIM (University of Ulsan)

Board Examination : Soo-Kyung KIM (CHA University)

Ethics : Byung Joon KIM (Gachon University)

Medical Practitioner : Seok O PARK (Baksem Internal Medicine Clinic)

Big Data : Kee Ho SONG (Konkuk University)

The 40th Anniversary :

Ki-Hyun BAEK (The Catholic University of Korea)

Yoon-Sok CHUNG (Ajou University)

Hyeong-Kyu PARK (Soon Chun Hyang University)



“Beyond COVID-19: Rebuilding the Future of Endocrinology”

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Yumie RHEE (Yonsei University)

Kyoung Min KIM (Yonsei University)

Sang Ouk CHIN (Kyung Hee University)

Jung Hee KIM (Seoul National University)

Ki Woo KIM (Yonsei University College of Dentistry)

Sung-Yon KIM (Seoul National University)

Hyung Jin CHOI (Seoul National University)

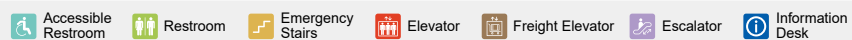
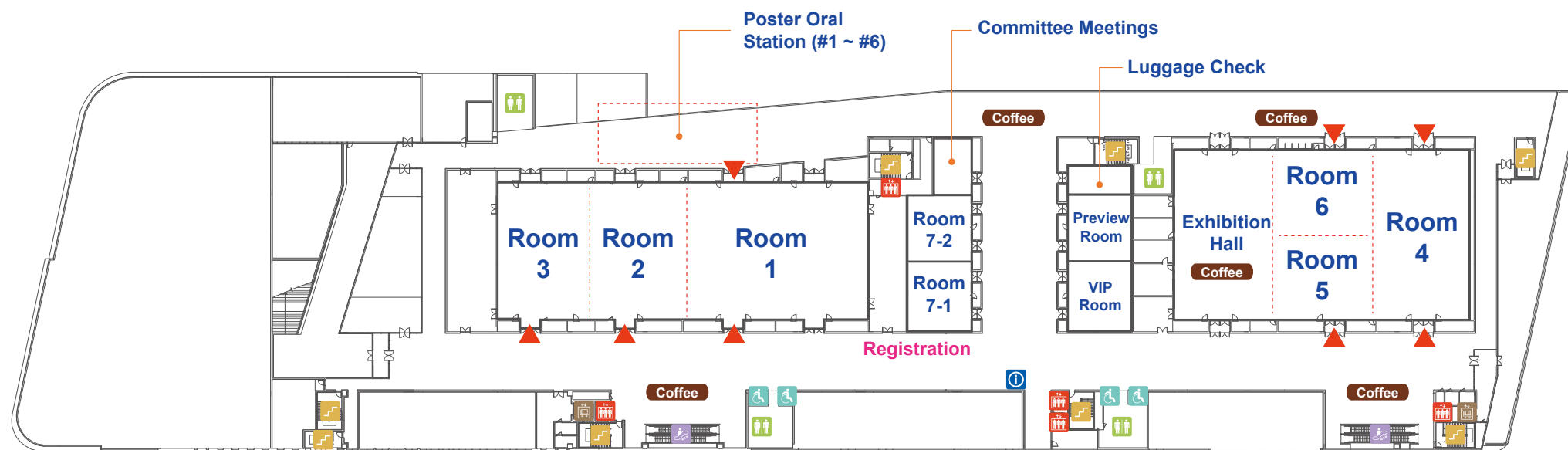
ADVISOR

Young-Bum KIM (Harvard University)



FLOOR PLAN

Location : 5th floor, Busan Port International Passenger Terminal, 206,
Choongjang-daero, Dong-gu, Busan, Republic of Korea





“Beyond COVID-19: Rebuilding the Future of Endocrinology”

PROGRAM AT A GLANCE

SICEM2021

The 9th Seoul International Congress of Endocrinology and Metabolism
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(K): Korean Session

DATE	October 28, Thursday				DATE	October 29, Friday						DATE	October 30, Saturday					
ROOM	Room 1 Live	Room 2 Live	Room 3 Live	Room 4 Live	ROOM	Room 1 Live	Room 2 Live	Room 3 Live	Room 4 Live	Room 5	Room 6	ROOM	Room 1 Live	Room 2 Live	Room 3 Live	Room 4 Live	Room 5	Room 6
07:00					07:00							07:00						
07:30					07:30							07:30						
08:00					08:00							08:00						
08:30					08:30							08:30						
09:00					09:00	HOT TOPIC 1 COVID-19 and Endocrine Disease	Meet the Professor 1 Pituitary	Meet the Professor 2 Bone	HOT TOPIC 2 DPP4-science Informs Mechanisms and Safety for Type 2 Diabetes	Plenary Oral 1 Thyroid, Basic Research	Plenary Oral 2 Neuroendocrine, Adrenal, Lipid	09:00	Symposium 11 Recent Advances in Thyroid Cancer Research	Special-interest Group 4 Role of Insulin-like Growth Factor-1 (IGF-1) from Normal Physiology to Pathophysiology	US ENDO-KES Joint Symposium Data-driven Glycemic Control to Improve Diabetes Care	Meet the Professor 4 Diabetes	Plenary Oral 3 Diabetes / Obesity	Plenary Oral 4 Bone / Nutrition
09:30					09:30							09:30						
10:00					10:00	Symposium 1 Thyroid Function and QoL	Symposium 2 Heterogeneity of Diabetes: From Pathophysiology to Precision Care	Symposium 3 Incretin Biology: Basics and Applications	Symposium 4 Aging Skeleton	Special Session 1 sponsored by Dong-A ST - Expansion of Diabetes Care: DPP-4i and Beyond DPP-4 Inhibitors in the Treatment of Type 2 Diabetes	Clinical Update 1 Clinical Updates for Diseases in Pituitary and Adrenal Gland (K)	10:00	Symposium 12 Lipid Metabolism and Complex Human Disease	Symposium 13 Functional Diversity in Adipose Tissue	Symposium 14 Hormonal Aspect of Musculoskeletal System	Special session 3 sponsored by Boehringer + Lilly - New Insights for Diabetes Management	EnM Hot Articles in 2020-2021	Special Session 4 sponsored by Celltrion Type 2 Diabetes: A Patient- centric Approach to Care (K)
10:30					10:30							10:30						
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“Beyond COVID-19: Rebuilding the Future of Endocrinology”

PROGRAM OVERVIEW

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PLENARY LECTURE

Plenary Lecture 1: Bone



**Parathyroid Diseases, 2021:
New Concepts, New Guidelines**

John P BILEZIKIAN, M.D.
Columbia University Vagelos College of
Physicians and Surgeons, USA

Plenary Lecture 2: Thyroid



**Antithyroid Treatment of
Graves' Hyperthyroidism**

Young Kee SHONG, M.D.
University of Ulsan, Korea

Plenary Lecture 3: Diabetes



**Human Beta Cell Regeneration
for Diabetes: A Journey from
Impossible to Possible**

Andrew STEWART, M.D.
Icahn School of Medicine at
Mount Sinai, USA

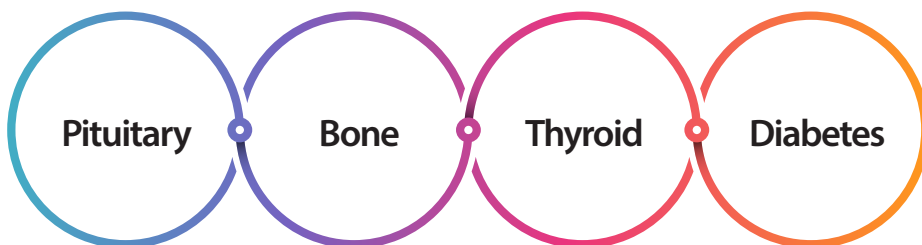
Plenary Lecture 4: Aging



How to Age Later?

Nir BARZILAI, M.D.
Albert Einstein
College of Medicine, USA

MEET THE PROFESSOR



SYMPOSIUM

Clinical

- ▶ Thyroid Function and QoL
- ▶ Heterogeneity of Diabetes:
From Pathophysiology to Precision Care
- ▶ Novel Mechanisms of Central Metabolic Regulation
- ▶ Lipid Management in the Era of Precision Medicine
- ▶ Personalized Medicine in Obesity
- ▶ Update in Primary Aldosteronism

Basic

- ▶ Incretin Biology: Basics and Applications
- ▶ Aging Skeleton
- ▶ Metabolic Regulation of Energy Expenditure
- ▶ Potential Molecular Mediators of Exercise Benefits
in Diabetes
- ▶ Recent Advances in Thyroid Cancer Research
- ▶ Lipid Metabolism and Complex Human Disease
- ▶ Functional Diversity in Adipose Tissue
- ▶ Hormonal Aspect of Musculoskeletal System

SPECIAL-INTEREST GROUP

Endocrinology in Geroscience - Senescence and Endocrine Regulations

Clinical Questions in Deciding Treatment in Thyroid Disease

Standing Together Against Endocrine Rare Disease

Role of Insulin-like Growth Factor-1 (IGF-1) from Normal Physiology to Pathophysiology

EDC and Metabolic Perturbation

PTH and Regenerative Medicine

Hot Topics in the Field of Adrenal Diseases

SPECIAL SYMPOSIUM

Hot Topic 1

COVID-19 and Endocrine Disease

Hot Topic 2

DPP4-science Informs Mechanisms
and Safety for Type 2 Diabetes

EnM Hot Articles in 2020-2021

SESSION IN KOREAN

Clinical Update

01 Clinical Updates for Diseases in Pituitary and Adrenal Gland

02 Osteoporosis Treatment: History Repeats Itself!

03 Clinical Updates in Diabetes Management

04 Therapeutic Strategy for Thyroid Disease: The Evolution

Special Lecture

Committee of the Health Insurance
Cutting Edge Care of KES

JOINT SYMPOSIUM

JES-KES Joint Symposium



ESA-KES Joint Symposium



US ENDO-KES Joint Symposium





DAY 1. OCTOBER 28 (THU)

Day 1. October 28 (Thu)

14:30-16:30	Cutting Edge Care of KES (K) LIVE Room 1
	Chair: Soon Jib YOO (President, Korean Endocrine Society / The Catholic University of Korea, Korea)
14:30-14:50	History of Endocrine Disease & Its Treatment
	Jong Chul WON (Inje University, Korea)
14:50-15:10	Future of Endocrine Disease and Care
	Jin Hwa KIM (Chosun University, Korea)
15:10-15:30	AI in Endocrine Care
	Yul HWANGBO (National Cancer Center, Korea)
15:30-15:50	Big Data in Endocrinology
	Kyungdo HAN (Department of Statistics and Actuarial Science, Soongsil University, Korea)
15:50-16:10	Clinical Research in Endocrinology
	Seung-Hwan LEE (The Catholic University of Korea, Korea)
16:10-16:30	40 Years Together, New Leap Forward!
	Hyuk-Sang KWON (The Catholic University of Korea, Korea)

Day 2. October 29 (Fri)

17:00-18:30	Special-interest Group 1: Endocrinology in Geroscience - Senescence and Endocrine Regulations LIVE Room 1
	Chairs: Kyungjin KIM (Brain & Cognitive Sciences, DGIST, Korea) Dong Won BYUN (Soon Chun Hyang University, Korea)
17:00-17:20	Aging and Changes in Water Balance
	Jeong Hyun PARK (Inje University, Korea)
17:20-17:40	Premature Ovarian Aging in a Mouse Model of Mitochondrial Dysfunction
	Keshav K SINGH (Department of Genetics, School of Medicine, The University of Alabama at Birmingham, USA)
17:40-18:00	Targeting β-cell Senescence and its SASP
	Cristina AGUAYO-MAZZUCATO (Joslin Diabetes Center, Harvard Medical School, USA)
18:00-18:30	Panel Discussion
	Junghyun NOH (Inje University, Korea) Jun Sung MOON (Yeungnam University, Korea) Jeonghoon HA (The Catholic University of Korea, Korea)

Day 3. October 30 (Sat)

POSTER

DAY 1. OCTOBER 28 (THU)

Day 1. October 28 (Thu)

17:00-18:30	Special-interest Group 2: Clinical Questions in Deciding Treatment in Thyroid Disease LIVE Room 2
	Chairs: Fen-Yu TSENG (President, The Endocrine Society of the Republic of China (Taiwan) / National Taiwan University, Taiwan) Jong Min LEE (The Catholic University of Korea, Korea)
17:00-17:20	Only TSH Increase in Thyroid Dysfunction: Treat with Thyroid Hormone or Not? (macro TSH issue)
	Naoki HATTORI (Department of Pharmaceutical Sciences, Ritsumeikan University, Japan)
17:20-17:40	TPOAb-positive Euthyroid Pregnant Women: Treat with Thyroid Hormone or Not?
	Tim KOREVAAR (The Erasmus University Medical Center, Netherlands)
17:40-18:00	Sorafenib vs. Lenvatinib in the 1st Line Treatment of Radioiodine-refractory Advanced/metastatic Differentiated Thyroid Carcinoma
	Won Gu KIM (University of Ulsan, Korea)
18:00-18:30	Panel Discussion
	Min-Hee KIM (The Catholic University of Korea, Korea) Hye In KIM (Sungkyunkwan University, Korea) Kyong Yeun JUNG (Eulji University, Korea)

Day 2. October 29 (Fri)

17:00-18:30	Special-interest Group 3: Standing Together Against Endocrine Rare Disease LIVE Room 3
	Chairs: Daisaku NAKATANI (Department of Medical Innovation, Osaka University Hospital, Japan) Sin Gon KIM (Korea University, Korea)
17:00-17:20	Challenging Research on Castleman Disease Develops Remarkable New Knowledges and Therapies
	Kazuyuki YOSHIZAKI (SANKEN, Osaka University, Japan)
17:20-17:40	Congenital Adrenal Hyperplasia
	Henrik FALHAMMAR (Karolinska Institutet, Sweden)
17:40-18:00	Cushing's Disease Registry in Korea
	Sang Ouk CHIN (Kyung Hee University, Korea)
18:00-18:30	Panel Discussion
	Cheol Ryong KU (Yonsei University, Korea) Sihoon LEE (Gachon University, Korea)

Day 3. October 30 (Sat)

POSTER



“Beyond COVID-19: Rebuilding the Future of Endocrinology”

DETAIL PROGRAM

SICEM2021

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DAY 1. OCTOBER 28 (THU)

- 17:00-18:30 **Special Lecture: Committee of the Health Insurance (K)** LIVE Room 4
Chairs: Tae Sun PARK (Jeonbuk National University, Korea)
Dae Jung KIM (Ajou University, Korea)
- 17:00-18:00 **Super-aged Society Japan Medical Care and Welfare: What Should We Learn?**
Chul Joong KIM (Chosun Media, Korea)
- 18:00-18:30 **Panel Discussion**
Kyeong Hye PARK (National Health Insurance Service Ilsan Hospital, Korea)
Ji A SEO (Korea University, Korea)
Seong Hee AHN (Inha University, Korea)

DAY 2. OCTOBER 29 (FRI)

- 08:30-09:20 **HOT TOPIC 1 : COVID-19 and Endocrine Disease** LIVE Room 1
Chair: Kyoil SUH (Soon Chun Hyang University, Korea)
- 08:30-08:50 **COVID-19 and Endocrine Disease**
Juliana CHAN (The Chinese University of Hong Kong, Hong Kong)
- 08:50-09:10 **Hypocalcemia in COVID-19: Prevalence, Clinical Significance and Therapeutic Implications**
Luigi DI FILIPPO (Vita-Salute San Raffaele University, Italy)
- 09:10-09:20 **Live Q&A**
- 09:30-11:00 **Symposium 1: Thyroid Function and QoL** LIVE Room 1
Chairs: Young Joo PARK (Seoul National University, Korea)
Ka Hee YI (Seoul National University, Korea)
- 09:30-09:50 **Thyroid Function and Psychiatric Diseases**
Hong Jin JEON (Department of Psychiatry, Sungkyunkwan University, Korea)
- 09:50-10:10 **Optimization of Therapy for Hypothyroidism**
Jacqueline JONKLAAS (Georgetown University, USA)
- 10:10-10:30 **Quality of Life of Differentiated Thyroid Cancer Survivors**
Jie LI (The First Affiliated Hospital, Sun Yat-sen University, China)
- 10:30-11:00 **Panel Discussion**
Eyun SONG (Korea University, Korea)
Dong Yeob SHIN (Yonsei University, Korea)
Yun Mi CHOI (Hallym University, Korea)
- 11:15-11:20 **Opening Address**
- 11:20-12:00 **Plenary Lecture 1: Bone** LIVE Room 1
Chair: Moo Il KANG (The Catholic University of Korea, Korea)
Parathyroid Diseases, 2021: New Concepts, New Guidelines
John P. BILEZIKIAN (Columbia University Vagelos College of Physicians and Surgeons, USA)

Day 1. October 28 (Thu)

Day 2. October 29 (Fri)

Day 3. October 30 (Sat)

POSTER

Day 1. October 28 (Thu)

Day 2. October 29 (Fri)

Day 3. October 30 (Sat)

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DAY 2. OCTOBER 29 (FRI)

DAY 2. OCTOBER 29 (FRI)

Day 1. October 28 (Thu)

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POSTER

12:10-13:10	Luncheon Symposium 1 LIVE Room 1
	Chair: Yong Ki KIM (KIM YONGKI Endocrine Clinic, Korea)
12:10-12:30	Individualized T2DM Treatment: Focused on Recent Treatment Option
	Young Min CHO (Seoul National University, Korea) by MSD
12:30-12:50	Successfully Managing Patients with Type 2 Diabetes and Complications
	Steven KAHN (University of Washington, USA) by Billy
14:00-14:40	Plenary Lecture 2: Thyroid LIVE Room 1
	Chair: Jae Hoon CHUNG (Chairman, Korean Endocrine Society / Sungkyunkwan University, Korea)
	Antithyroid Treatment of Graves' Hyperthyroidism
	Young Kee SHONG (University of Ulsan, Korea)
14:50-16:20	Symposium 5: Novel Mechanisms of Central Metabolic Regulation LIVE Room 1
	Chairs: Ja-Hyun BAIK (Department of Life Sciences, Korea University, Korea) Eun-Kyoung KIM (Brain & Cognitive Sciences, DGIST, Korea)
14:50-15:10	Increased Excitability of Hypothalamic AgRP Neurons Results in Increased Body Weight without Changes in Food Intake
	Jong-Woo SOHN (Department of Biological Sciences, KAIST, Korea)
15:10-15:30	Melanocortin Neurons and Body Weight Control in Mice and Humans
	Yong XU (Baylor College of Medicine, USA)
15:30-15:50	Direct Modulation of GFAP-expressing Glia in the Arcuate Nucleus Bi-directionally Regulates Feeding
	Weiping HAN (Institute of Molecular and Cell Biology, A*STAR, Singapore)
15:50-16:20	Panel Discussion
	Min Soo KIM (Brain Research Institute, KIST, Korea)
	Jaemin LEE (Department of New Biology, DGIST, Korea)
	Chan Hee LEE (Department of Biomedical Science, Hallym University, Korea)

16:30-18:00	Symposium 8: Personalized Medicine in Obesity LIVE Room 1
	Chairs: Soo LIM (Seoul National University, Korea) Byung-Wan LEE (Yonsei University, Korea)
16:30-16:50	Integrated Personal Omic Profiling for Obesity
	Brian PIENING (Providence, USA)
16:50-17:10	Quantitative Analysis of Metabolic Interactions between Mammalian Organs
	Cholsoo JANG (University of California Irvine, USA)
17:10-17:30	Development of Personalized Digital Obesity Management Prototype Based on Artificial Intelligence
	Sang Youl RHEE (Kyung Hee University, Korea)
17:30-18:00	Panel Discussion
	Ara KOH (Department of Life Sciences, POSTECH, Korea)
	Jang Won SON (The Catholic University of Korea, Korea)
	Sunjae LEE (School of Life Sciences, GIST, Korea)

Day 1. October 28 (Thu)

Day 2. October 29 (Fri)

Day 3. October 30 (Sat)

POSTER



DAY 2. OCTOBER 29 (FRI)

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Day 1. October 28 (Thu)

Day 2. October 29 (Fri)

Day 3. October 30 (Sat)

POSTER

08:30-09:20	Meet the Professor 1: Pituitary LIVE Room 2 Chair: Doo-Man KIM (Hallym University, Korea)
08:30-09:20	Cushing's Disease: Difficulty in Diagnosis, Localization & Treatment Eun Jig LEE (Yonsei University, Korea) Panelists Jae Hyuk LEE (Hanyang University, Korea) Jaewon HONG (Inje University, Korea)
09:30-11:00	Symposium 2: Heterogeneity of Diabetes: From Pathophysiology to Precision Care LIVE Room 2 Chairs: In Joo KIM (Pusan National University, Korea) Bong Soo CHA (Yonsei University, Korea)
09:30-09:50	Pathophysiology-based Subphenotyping of Individuals at Elevated Risk for Type 2 Diabetes Robert WAGNER (University Hospital Tübingen, Germany)
09:50-10:10	Interindividual Variations in Diabetic Complication Susceptibility Ronald MA (The Chinese University of Hong Kong, Hong Kong, China)
10:10-10:30	Rare Monogenic Forms of Diabetes and Precision Medicine Soo Heon KWAK (Seoul National University, Korea)
10:30-11:00	Panel Discussion Kyung-Soo KIM (CHA University, Korea) Sangsu KIM (Pusan National University, Korea) Dong-Mee LIM (Konyang University, Korea)
12:10-13:10	Luncheon Symposium 2 LIVE Room 2 Chair: Hyoung Woo LEE (Yeungnam University, Korea)
12:10-12:30	Familial Hypercholesterolemia: Diagnosis and LDL-C Management Bu Kyung KIM (Kosin University, Korea) by Amgen
12:30-12:50	Postprandial Hyperglycemia & Glycemic Variability Mi-kyung KIM (Inje University, Korea) by Dong-A ST

14:50-16:20	Symposium 6: Lipid Management in the Era of Precision Medicine LIVE Room 2 Chairs: Sung-Rae KIM (The Catholic University of Korea, Korea) SungHee CHOI (Seoul National University, Korea)
14:50-15:10	Lipid-lowering Therapy: Guidelines to Precision Medicine Sang-Hyun KIM (Department of Cardiology, Seoul National University, Korea)
15:10-15:30	Recent Advances in LDL-C Lowering Therapy in Familial Hypercholesterolemia Masahiro KOSEKI (Osaka University, Japan)
15:30-15:50	Role of Angiopoietin-like Proteins in Lipid Metabolism Sander KERSTEN (Wageningen University, Netherlands)
15:50-16:20	Panel Discussion Hyun Jin KIM (Chungnam National University, Korea) Jae Hyoung CHO (The Catholic University of Korea, Korea)
16:30-18:00	Symposium 9: Update in Primary Aldosteronism LIVE Room 2 Chairs: Choon Hee CHUNG (Yonsei University Wonju, Korea) Kyoung-Ah KIM (Dongguk University, Korea)
16:30-16:50	Aldosterone-regulating Receptor and Aldosterone-driver Mutation Jung Soo LIM (Yonsei University Wonju College of Medicine, Korea)
16:50-17:10	The AVIS-2 Study: A Multiethnic International Survey of Clinical Outcomes of 1625 Primary Aldosteronism Patients by Adrenal Vein Sampling Gian Paolo ROSSI (University of Padova, Italy)
17:10-17:30	Next Clinical Practice of Primary Aldosteronism: Simplifying the PA Diagnostic Flow Fumitoshi SATOH (Tohoku University Graduate School of Medicine, Japan)
17:30-18:00	Panel Discussion Kyoung Jin KIM (Korea University, Korea) Han Na JANG (Seoul National University, Korea) Dughyun CHOI (Soon Chun Hyang University, Korea)

Day 1. October 28 (Thu)

Day 2. October 29 (Fri)

Day 3. October 30 (Sat)

POSTER



DAY 2. OCTOBER 29 (FRI)

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POSTER

08:30-09:20	Meet the Professor 2: Bone LIVE Room 3 Chair: Yumie RHEE (Yonsei University, Korea)
08:30-09:20	Osteoanabolic Therapy for Osteoporosis John P. BILEZIKIAN (Columbia University Vagelos College of Physicians and Surgeons, USA) Panelists Sung Hwan SUH (Dong-A University, Korea) Namki HONG (Yonsei University, Korea)
09:30-11:00	Symposium 3: Incretin Biology: Basics and Applications LIVE Room 3 Chairs: Ho-Young SON (The Catholic University of Korea, Korea) Young Min CHO (Seoul National University, Korea)
09:30-09:50	Glucagon-like Peptide-1 (GLP-1) Signaling in the Brain: From Neural Circuits and Metabolism Kevin WILLIAMS (UT Southwestern Medical Center, USA)
09:50-10:10	The Role of the Alpha Cell in the Incretin Effect and Postprandial Metabolism Jonathan CAMPBELL (Duke University, USA)
10:10-10:30	Photodynamic Therapy for Endoscopic Duodenal Resurfacing in Obesity Treatment Pilgoo LEE (Department of Biomedical-Chemical Engineering, The Catholic University of Korea, Korea)
10:30-11:00	Panel Discussion Obin KWON (Biochemistry and Molecular Biology, Seoul National University, Korea) Tae Jung OH (Seoul National University, Korea) Sungsoon FANG (Biomedical Science, Yonsei University, Korea)
12:10-13:10	Luncheon Symposium 3 LIVE Room 3 Chair: Kwang Won KIM (Gachon University, Korea)
12:10-12:30	The Role of DPP-4i in guidelines and Alogliptin; What are the differences? Jung Hwan PARK (Hanyang University, Korea) by Celltrion
12:30-12:50	The Latest Options for Treatment of Type 2 Diabetes Patients Jae Hyuk LEE (Hanyang University, Korea) by Chong Kun Dang

14:50-16:20	JES-KES Joint Symposium: Rising Stars of Endocrinology in Japan and Korea LIVE Room 3 Chairs: Hirotaka SHIBATA (Managing Director, Chair of Finance Committee, Japan Endocrine Society / Oita University Faculty of Medicine, Japan) Min-Seon KIM (Director, Committee of Scientific Affairs, Korean Endocrine Society / University of Ulsan, Korea)
14:50-15:05	Temporal Tissue Coordination by the Circadian Clock and Metabolic Cycles Kenichiro KINOCHI (Division of Endocrinology, Metabolism, and Nephrology, Department of Internal Medicine, Keio University School of Medicine, Japan)
15:05-15:20	A Novel Etiology of Acquired Hypopituitarism - "Paraneoplastic Hypophysitis" Hironori BANDO (Kobe University Graduate School of Medicine, Japan)
15:20-15:35	Regulation of Energy Metabolism by Hypothalamic POMC Neuron-Adipose Tissue Interorgan Mitohormesis Response Se Hee MIN (University of Ulsan, Korea)
15:35-15:50	Immunometabolic Signatures Predict Recovery from Thyrotoxic Myopathy in Patients with Graves' Disease Hyon Seung YI (Chungnam National University, Korea)
15:50-16:05	Regeneration of Parathyroid Glands that Function in Response to Calcium Mayuko KANO (Division of Stem Cell Therapy, Institute of Medical Science, University of Tokyo, Japan)
16:05-16:20	Lactation Improves Glucose Tolerance by Improving Pancreatic Beta Cell Function Joon Ho MOON (Seoul National University, Korea)
16:30-18:00	ESA-KES Joint Symposium: Testosterone Treatment and T4DM LIVE Room 3 Chairs: Bu Beng YEAP (President, The Endocrine Society of Australia (ESA) / The University of Western Australia, Australia) Jae Hoon CHUNG (Chairman, Korean Endocrine Society / Sungkyunkwan University, Korea)
16:30-16:50	Testicular and Adrenal Metabolic Pathways of Androgen Man Ho CHOI (Department of Molecular Recognition, KIST, Korea)
16:50-17:10	Testosterone Treatment for the Prevention of Type 2 Diabetes in Men Gary WITTERT (University of Adelaide, Australia)
17:10-17:30	Testosterone and Male Osteoporosis Mathis GROSSMANN (University of Melbourne, Austin Health, Australia)
17:30-18:00	Panel Discussion Kwang Joon KIM (Department of Geriatrics, Yonsei University, Korea) Dong Sup LEE (Department of Urology, The Catholic University of Korea, Korea) Yoon-Sok CHUNG (Ajou University, Korea)

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08:30-09:20 **HOT TOPIC 2: DPP4-science Informs Mechanisms and Safety for Type 2 Diabetes** **LIVE** Room 4
Chair: Moon Kyu LEE (Eulji University, Korea)

08:30-09:10 **DPP4-science Informs Mechanisms and Safety for Type 2 Diabetes**
Daniel DRUCKER (Lunenfeld-Tanenbaum Research Institute, University of Toronto, Canada)

09:10-09:20 **Live Q&A**

09:30-11:00 **Symposium 4: Aging Skeleton** **LIVE** Room 4
Chairs: Hyeong Kyu PARK (Soon Chun Hyang University, Korea)
Soo Young LEE (Department of Life Science, Ewha Womans University, Korea)

09:30-09:55 **The Aging Osteocyte**
Lynda F. BONEWALD (Indiana Center for Musculoskeletal Health, USA)

09:55-10:20 **Mechanisms of Decreased Bone Formation with Aging**
Maria ALMEIDA (University of Arkansas for Medical Sciences, USA)

10:20-10:40 **Cellular Senescence and Degenerative Joint Disease**
Ok Hee JEON (Department of Biomedical Sciences, Korea University, Korea)

10:40-11:00 **Panel Discussion**
Beom-Jun KIM (University of Ulsan, Korea)
A Ram HONG (Chonnam National University, Korea)

14:50-16:20 **Symposium 7: Metabolic Regulation of Energy Expenditure** **LIVE** Room 4
Chairs: Cheol Soo CHOI (Gachon University, Korea)
Yun-Hee LEE (Department of Pharmacy, Seoul National University, Korea)

14:50-15:10 **Understanding Brown Adipose Tissue Metabolism Using Multidisciplinary Approach**
Su Myung JUNG (Department of Biological Sciences, Sungkyunkwan University, Korea)

15:10-15:30 **The Brainstem-Hypothalamic Circuitry Controls Body Temperature**
Wei SHEN (ShanghaiTech University, China)

15:30-15:50 **The Role of Leptin Signaling in Early Life**
Jose DONATO Jr. (University of Sao Paulo, Brazil)

15:50-16:20 **Panel Discussion**
Sung-Yon KIM (Department of Chemistry, Seoul National University, Korea)
Jae Geun KIM (Division of Life Science, Incheon National University, Korea)
MinWoo LEE (Soon Chun Hyang Institute of Medi-Bio Science, Korea)

16:30-18:00 **Special Session 2** **LIVE** Room 4
sponsored by Amgen - Precision Medicine in OP Treatment: Should We Treat-to-Target or Target-to-Treat?

Chairs: Hyun Koo YOON (CHEIL CLINIC, Korea)
Deog Yoon KIM (Kyung Hee University, Korea)

16:30-16:50 **First Treatment of Osteoporosis: A Matter of Order, a Matter of Choice**
Kyoung Min KIM (Yonsei University, Korea)

16:50-17:10 **Conquering Challenges in Treatment of Very High-Risk Osteoporosis Patients with Romosozumab**
Peter EBELING (Monash Medical Centre, Australia)

17:10-17:30 **What's Next for Non-responders? Sequenced Treatment Approach**
E. Michael LEWIECKI (New Mexico Clinical Research & Osteoporosis Center, USA)

17:30-18:00 **Panel Discussion**
Ha Young KIM (University of Ulsan, Korea)
Yumie RHEE (Yonsei University, Korea)
Jeonghoon HA (The Catholic University of Korea, Korea)

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08:30-09:20	Plenary Oral 2: Neuroendocrine, Adrenal, Lipid	Room 6
	Chairs: Chul Hee KIM (Soon Chun Hyang University, Korea) Dong Jun LIM (The Catholic University of Korea, Korea)	
PO2-1	SERUM STEROID PROFILE IS ASSOCIATED WITH METABOLIC SYNDROME IN CONGENITAL ADRENAL HYPERPLASIA ADULTS	
	Chang Ho AHN (Seoul National University College of Medicine, Korea)	
PO2-2	TIME-DEPENDENT RISK OF ATRIAL FIBRILLATION IN PATIENTS WITH PRIMARY ALDOSTERONISM AFTER MEDICAL OR SURGICAL TREATMENT INITIATION	
	Kyoung Jin KIM (Korea University College of Medicine, Korea)	
PO2-3	PREDICTORS OF CABERGOLINE RESPONSIVENESS AND CABERGOLINE-INDUCED CSF RHINORRHEA IN PATIENTS WITH BIOACTIVE MACROPROLACTINOMA	
	Hae Kyung KIM (Institute of Endocrine Research, Yonsei University College of Medicine, Korea)	
PO2-4	ELEVATED MIR-16-5P INDUCES SOMATOSTATIN RECEPTOR 2 EXPRESSION IN NEUROENDOCRINE TUMOR CELLS	
	Misu LEE (Incheon National University, Korea)	
09:30-11:00	Clinical Update 1: Clinical Updates for Diseases in Pituitary and Adrenal Gland (K)	Room 6
	Chairs: Young Sik CHOI (Kosin University, Korea) Bo Hyun KIM (Pusan National University, Korea)	
09:30-09:50	Diagnosis of Cushing's Syndrome Using the Case: Fact and Fiction	
	Seung Hun LEE (University of Ulsan, Korea)	
09:50-10:10	Recent Updates on Neuroendocrine Tumors (NETs) of the Gastrointestinal Tract and Pancreas (GEP) (GEP-NETs)	
	Jin Won KIM (Department of Hematology & Medical Oncology, Seoul National University, Korea)	
10:10-10:30	Update in Guidelines for Acromegaly	
	Sang Ouk CHIN (Kyung Hee University, Korea)	
10:30-11:00	Panel Discussion	
	Eu Jeong KU (Chungbuk National University, Korea)	
	Joo Young KIM (Hanil General Hospital, Korea)	
	Chang Ho AHN (Seoul National University, Korea)	

14:50-16:20	Clinical Update 2: Osteoporosis Treatment: History Repeats Itself! (K)	Room 6
	Chairs: Yong Ki MIN (Sungkyunkwan University, Korea) Seongbin HONG (Inha University, Korea)	
14:50-15:10	The Efficacy of Active Vitamin D Therapy in the Management of Bone Loss and Fractures	
	Yong Jun CHOI (Ajou University, Korea)	
15:10-15:30	Older, but Newer Roles of Bisphosphonate	
	Seong Hee AHN (Inha University, Korea)	
15:30-15:50	Re-visit of SERM in New Era of Aging Society	
	Yunkyoung JEON (Pusan National University, Korea)	
15:50-16:20	Panel Discussion	
	Se Hwa KIM (Catholic Kwandong University, Korea)	
	Kee Ho SONG (Konkuk University, Korea)	
16:30-18:00	Clinical Update 3: Clinical Updates in Diabetes Management (K)	Room 6
	Chairs: Dong-Hyeok CHO (Chonnam National University, Korea) Soo-Kyung KIM (CHA University, Korea)	
16:30-16:50	2021 Diabetes Guideline; What's New?	
	Seung-Hyun KO (The Catholic University of Korea, Korea)	
16:50-17:10	2021 Treatment Guideline for Pharmacotherapy in Type 2 Diabetes Mellitus	
	Min Kyong MOON (Seoul National University, Korea)	
17:10-17:30	Web-based Clinical Decision Support System for Diabetes	
	Kyu Yeon HUR (Sungkyunkwan University, Korea)	
17:30-18:00	Panel Discussion	
	Nam Hoon KIM (Korea University, Korea)	
	Won Jun KIM (University of Ulsan, Korea)	
	Eun ROH (Korea University, Korea)	

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08:00-09:30	Symposium 11: Recent Advances in Thyroid Cancer Research LIVE Room 1 Chairs: Minho SHONG (Chungnam National University, Korea) Won Bae KIM (University of Ulsan, Korea)
08:00-08:20	The Role of Focal Adhesion Kinase in Thyroid Cancer Rebecca SCHWEPPE (University of Colorado Anschutz Medical Campus, USA)
08:20-08:40	Targeting Thyroid Carcinoma Microenvironment Carmelo NUCERA (Harvard Medical School, USA)
08:40-09:00	Tailored Approaches to Restore Iodine Avidity in Dedifferentiated Thyroid Cancers Byeong-Cheol AHN (Department of Nuclear Medicine, School of Medicine, Kyungpook National University, Korea)
09:00-09:30	Panel Discussion Young Shin SONG (CHA University, Korea) Min Ji JEON (University of Ulsan, Korea) Sun Wook CHO (Seoul National University, Korea)
09:40-11:10	Symposium 12: Lipid Metabolism and Complex Human Disease LIVE Room 1 Chairs: Kyu-Chang WON (Yeungnam University, Korea) Seung-Hoi KOO (Department of Life Sciences, Korea University, Korea)
09:40-10:00	Role of ER Stress Response Failure in the Development of Steatohepatitis Comorbid with Diabetes Takayoshi SASAKO (The University of Tokyo, Japan)
10:00-10:20	Control of Leptin Transport via LRP or LepR Young-Bum KIM (Harvard Medical School, USA)
10:20-10:40	Immune and Vascular Networks in the Pathogenesis of Atherosclerosis Goo Taeg OH (Department of Life Sciences, Ewha Womans University, Korea)
10:40-11:10	Panel Discussion Eun Hee KOH (University of Ulsan, Korea) Keun-Gyu PARK (Kyungpook National University, Korea) Eugene HAN (Keimyung University, Korea)
11:20-12:00	Plenary Lecture 3: Diabetes LIVE Room 1 Chair: Kun-Ho YOON (The Catholic University of Korea, Korea) Human Beta Cell Regeneration for Diabetes: A Journey from Impossible to Possible. Andrew STEWART (Icahn School of Medicine at Mount Sinai, USA)

12:10-13:10	Luncheon Symposium 4 LIVE Room 1 Chair: Nam Han CHO (Ajou University, Korea)
12:10-12:30	Exploring the Benefits of Switching from other DPP-4 Inhibitors to Tenueligliptin Hae Jin KIM (Ajou University, Korea) by Handok
12:30-12:50	The Importance of Hypoglycemia Management in Diabetic Patient : BRIGHT Study Mi Hae SEO (Soon Chun Hyang University, Korea) by Sanofi
14:00-14:40	Plenary Lecture 4: Aging LIVE Room 1 Chair: Young-Bum KIM (Harvard Medical School, USA) How to Age Later? Nir BARZILAI (Albert Einstein College of Medicine, USA)
14:40-15:10	Namgok Award Lecture LIVE Room 1 Chair: Young-kil CHOI (Kyung Hee University, Korea) The influence of obesity and metabolic health on vascular health Eun-Jung RHEE (Sungkyunkwan University, Korea)
15:20-16:50	Special Session 5: Steroidogenesis LIVE Room 1 Chairs: Hironobu SASANO (Department of Anatomic Pathology, Tohoku University, Japan) Man Ho CHOI (Department of Molecular Recognition, KIST, Korea)
15:20-15:40	Human Steroidogenesis and Adrenal Disorders Taninee SAHAKITRUNGKUANG (Chulalongkorn University, Thailand)
15:40-16:00	Regulation of SF-1 and Adrenal Glands by Insulin Signaling Ki Woo KIM (Yonsei University College of Dentistry, Korea)
16:00-16:20	The 11-hydroxy and 11-keto Hormones of Adrenal Androstenedione and Progesterone in Human Steroidogenesis Amanda C. SWART (Stellenbosch University, South Africa)
16:20-16:50	Panel Discussion Viroj BOONYARATANAKORNKIT (Chulalongkorn University, Thailand) Kyoung Jin KIM (Korea University, Korea) Chang Ho AHN (Seoul National University, Korea)
16:50-17:10	Closing Ceremony

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08:00-09:30 **Special-interest Group 4: Role of Insulin-like Growth Factor-1 (IGF-1) from Normal Physiology to Pathophysiology** **LIVE Room 2**
Chairs: DongSun KIM (Hanyang University, Korea)
Gwanpyo KOH (Jeju National University, Korea)

08:00-08:20 **Normal Physiology and Reference Range of IGF-I**
In-Kyung JEONG (Kyung Hee University, Korea)

08:20-08:40 **Growth Hormone (GH) and IGF-1: Discordant Results in Diagnosis and Treatment**
Hidenori FUKUOKA (Kobe University Hospital, Japan)

08:40-09:00 **Clinical Implications of Targeting the Growth Hormone (GH) Receptor in Acromegaly and Cancer**
Nicholas A TRITOS (Massachusetts General Hospital and Harvard Medical School, USA)

09:00-09:30 **Panel Discussion**
Cheol Ryong KU (Yonsei University, Korea)
Mi Kyung KIM (Keimyung University, Korea)
Jung Soo LIM (Yonsei University Wonju College of Medicine, Korea)

09:40-11:10 **Symposium 13: Functional Diversity in Adipose Tissue** **LIVE Room 2**
Chairs: Jae-woo KIM (Department of Biochemistry and Molecular Biology, Yonsei University, Korea)
Myung-Shik LEE (Biomedical Science Institute, Yonsei University, Korea)

09:40-10:00 **Epigenetic Regulation of Adipose Cell Fate and Function**
Takeshi INAGAKI (Gunma University, Japan)

10:00-10:20 **Functional Diversity of Adipocyte Progenitors**
Rana K. GUPTA (UT Southwestern Medical Center, USA)

10:20-10:40 **Ablation of TET Proteins in Adipocytes Protects Against Adiposity by Potentiating Energy Expenditure**
Myunggon KO (Department of Biological Sciences, UNIST, Korea)

10:40-11:10 **Panel Discussion**
Jiyoung PARK (Department of Biological Sciences, School of Life Sciences, UNIST, Korea)
Jae Myoung SUH (Graduate School of Medical Science and Engineering, KAIST, Korea)
Kae Won CHO (Soon Chun Hyang Institute of Medi-Bio Science, Korea)

12:10-13:10 **Luncheon Symposium 5** **LIVE Room 2**
Chair: Kyung Ah HAN (Eulji University, Korea)

12:10-12:30 **A View Beyond HbA1c: Clinical Implication of Glycemic Variability and Time in Range as a New Parameter**
So Hun KIM (Inha University, Korea)
by LG Chem

12:30-12:50 **The Rationale for Combining a GLP1 Analogue and Basal Insulin**
Sung Hee CHOI (Seoul National University, Korea)
by Novo Nordisk

15:20-16:50 **Special-interest Group 5: EDC and Metabolic Perturbation** **LIVE Room 2**
Chairs: Hong Kyu LEE (Seoul National University, Korea)
Jeong Hyun PARK (Inje University, Korea)

15:20-15:40 **EDC and Aryl Hydrocarbon Receptor (AhR)**
Youngmi KIM PAK (Department of Physiology, Kyung Hee University, Korea)

15:40-16:00 **How Does Prenatal Obesogen Exposure Lead to a Transgenerational Predisposition to Obesity?**
Bruce BLUMBERG (University of California, Irvine, USA)

16:00-16:20 **Endocrine Disrupting Chemicals and Risk of Diabetes**
Monica LIND (Occupational and Environmental Medicine, Uppsala University, Sweden)

16:20-16:50 **Panel Discussion**
Min Joo KIM (Seoul National University, Korea)
Suk CHON (Kyung Hee University, Korea)

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08:00-09:30 **US ENDO-KES Joint Symposium : Data-driven Glycemic Control to Improve Diabetes Care** **LIVE Room 3**
Chairs: Robert LASH (Chief Medical Officer, Endocrine Society, USA)
Kyong Soo PARK (Seoul National University, Korea)

08:00-08:20 **Practical Considerations for Utilizing Continuous Glucose Monitoring in Clinical Practice**
Carol H. WYSHAM (President, Endocrine Society / MultiCare Rockwood Clinic Diabetes & Endocrinology Center, USA)

08:20-08:40 **CGM Patterns-driven Diabetes Management: What's Different in Korea?**
Sang-Man JIN (Sungkyunkwan University, Korea)

08:40-09:00 **The Digital Solution for Improving the Care and Self-management of People with Diabetes**
Mansur SHOMALI (WellDoc, USA)

09:00-09:30 Discussion

09:40-11:10 **Symposium 14: Hormonal Aspect of Musculoskeletal System** **LIVE Room 3**
Chairs: Chan Soo SHIN (Seoul National University, Korea)
Je-Yong CHOI (Department of Biochemistry and Cell Biology, Kyungpook National University, Korea)

09:40-10:05 **Endocrine Actions of Sclerostin**
Ryan C. RIDDLE (Johns Hopkins University, USA)

10:05-10:25 **Impact of Skeletal Muscle on Metabolic Health**
Gyuri KIM (Sungkyunkwan University, Korea)

10:25-10:50 **Bone Regulation of Insulin Secretion and Glucose Homeostasis**
Patricia DUCY (Columbia University Medical Center, USA)

10:50-11:10 **Panel Discussion**
Sang Wan KIM (Seoul National University, Korea)
Ji Hyun PARK (Jeonbuk National University, Korea)

15:20-16:50 **Special-interest Group 6: PTH and Regenerative Medicine** **LIVE Room 3**
Chairs: Ho-Yeon CHUNG (Kyung Hee University, Korea)
Yoon-Sok CHUNG (Ajou University, Korea)

15:20-15:40 **Congenital Hypoparathyroidism Associated with Elevated Circulating Nonfunctional Parathyroid Hormone Due to Novel PTH Mutation**
Matti GILD (Royal North Shore Hospital, Australia)

15:40-16:00 **Understanding a Mechanism Underlying Bone Repair Process and Application for Bone Regeneration**
Hironori HOJO (The University of Tokyo, Japan)

16:00-16:20 **Stem Cell Therapy for Spinal Diseases**
Inbo HAN (Department of Neurosurgery, CHA University, Korea)

16:20-16:50 **Panel Discussion**
EunHee KIM (Pusan National University, Korea)
Soo Young LEE (Department of Life Science, Ewha Womans University, Korea)
Sihoon LEE (Gachon University, Korea)

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07:30-08:10	Breakfast Symposium 2 (K)	Room 5
	Chair: Sung Hoon KIM (MizMedi Hospital, Korea)	
07:30-07:50	Protective Role of the ACE2/Ang(1-7) in Cardiometabolic Disorders	
	Soo LIM (Seoul National University, Korea) by Daiichi Sankyo	
07:50-08:10	Pathogenic Treatment Strategy of Diabetic Peripheral Neuropathy (DPN)	
	Jun Hwa HONG (Eulji University, Korea) by Bukwang Pharmaceutical	
08:30-09:20	Plenary Oral 3: Diabetes/Obesity	Room 5
	Chairs: Dae-Ho LEE (Gachon University, Korea) Kee Ho SONG (Konkuk University, Korea)	
PO3-1	IMPORTANCE OF RESISTANCE TRAINING IN THE PREVENTION OF SARCOPENIA IN MEN: THE KOREAN FRAILTY AND AGING COHORT	
	Hun Jee CHOE (Seoul National University Hospital, Korea)	
PO3-2	PARADOXICAL ROLES OF ADIPOCYTE AND ADIPOSE TISSUE MACROPHAGE (ATM) LIPOPROTEIN LIPASE (LPL) IN THE REGULATION OF LIPID HOMEOSTASIS AND INSULIN RESISTANCE	
	Jiwon JEONG (SIMS, Soon Chun Hyang University, Korea)	
PO3-3	THE EFFICACY OF QUADRUPLE ORAL ANTIDIABETIC THERAPY COMPARED TO GLP-1RA BASED THERAPY IN POORLY CONTROLLED T2DM WITH TRIPLE ORAL THERAPY	
	Jongha BAEK (Gyeongsang National University Changwon Hospital, Korea)	
PO3-4	POSTPRANDIAL DYSLIPIDEMIA AFTER A STANDARDIZED HIGH-FAT MEAL IN BMI-MATCHED HEALTHY INDIVIDUALS, AND IN SUBJECTS WITH PREDIABETES OR TYPE 2 DIABETES	
	Soo LIM (Seoul National University Bundang Hospital, Korea)	

09:40-11:10	EnM Hot articles in 2020-2021	Room 5
	Chairs: Won Young LEE (Sungkyunkwan University, Korea) Eun-Jung RHEE (Sungkyunkwan University, Korea)	
09:40-10:00	Cushing Syndrome Associated Myopathy	
	Martin REINCKE (LMU Klinikum, Germany)	
10:00-10:20	Operationalizing Treat-to-Target for Osteoporosis	
	E. Michael LEWIECKI (New Mexico Clinical Research & Osteoporosis Center, USA)	
10:20-10:40	Subclinical Hypothyroidism: Prevalence, Health Impact, and Treatment landscape	
	Hyun-Kyung CHUNG (Dankook University, Korea)	
10:40-11:10	Panel Discussion	
	Mee Kyoung KIM (The Catholic University of Korea, Korea) Jung Hee KIM (Seoul National University, Korea) Han Seok CHOI (Dongguk University, Korea)	
15:20-16:50	Special Session 6 sponsored by MSD - Optimal Strategies for Individualized Treatment: Can We Delay Insulin Therapy for Type 2 Diabetes Patients?	Room 5
	Chairs: Stanley Liew Choon FONG (President, the Endocrine Metabolic Society of Singapore (EMSS), Singapore) Seok Won PARK (Yonsei University, Korea)	
15:20-15:40	How DPP4Is may Address the Treatment Strategies?	
	Juliana CHAN (The Chinese University of Hong Kong, Hong Kong)	
15:40-16:00	Keep Your Confidence on Type 2 DM in Broad Range of Patients	
	Su Kyoung KWON (Kosin University, Korea)	
16:00-16:20	The Latest Evidence of SGLT2 Inhibitors for Patients with Type 2 Diabetes	
	Jae-Han JEON (Kyungpook National University, Korea)	
16:20-16:50	Panel Discussion	
	Mi Kyung KIM (Keimyung University, Korea) Jae Hyun BAE (Korea University, Korea) So Yeon YOO (Jeju National University, Korea)	

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07:30-07:50	Breakfast Symposium 3 (K) Chair: Kang Seo PARK (Eulji University, Korea) The Role of the Incretin System in Type 2 Diabetes Eun-Hee CHO (Kangwon National University, Korea) by Lilly	Room 6
08:30-09:20	Plenary Oral 4: Bone/Nutrition Chairs: Eun Gyoung HONG (Hallym University, Korea) Hong Kyu KIM (Department of Health Medicine, University of Ulsan, Korea)	Room 6
PO4-1	RALOXIFENE USE AFTER DENOSUMAB DISCONTINUATION PARTIALLY ATTENUATED BONE LOSS AT LUMBAR SPINE IN POSTMENOPAUSAL OSTEOPOROSIS Sungjae SHIN (Yonsei University College of Medicine, Korea)	
PO4-2	ASSOCIATIONS OF VARIABILITY IN BODY WEIGHT AND GLUCOSE LEVELS WITH THE RISK OF HIP FRACTURE IN PEOPLE WITH DIABETES Jeongmin LEE (College of Medicine, The Catholic University of Korea, Korea)	
PO4-3	BONE RADIOMICS SCORE DERIVED FROM DXA HIP IMAGES ENHANCES HIP FRACTURE PREDICTION IN OLDER WOMEN Namki HONG (Yonsei University College of Medicine, Korea)	
PO4-4	EPIDEMIOLOGY AND PROGNOSIS OF PRIMARY HYPERPARATHYROIDISM: A NATIONWIDE COHORT STUDY Sung Hye KONG (Seoul National University Bundang Hospital, Korea)	

09:40-11:10	Special Session 4 sponsored by Celltrion - Type 2 Diabetes: A Patient-centric Approach to Care (K) Chairs: Hak Chul JANG (Seoul National University, Korea) Yu Bae AHN (The Catholic University of Korea, Korea)	Room 6
09:40-10:00	New ARB, Azilsartan for Hypertension treatment in patients with T2DM Chong Hwa KIM (Sejong General Hospital, Korea)	
10:00-10:20	Beta-cell Preservation & Durability of Glycemic Control, Additional Benefits: Pioglitazone Jun Sung MOON (Yeungnam University, Korea)	
10:20-10:40	Initial Combination Therapy for T2DM; For whom, what is the optimal combination? Se Eun PARK (Sungkyunkwan University, Korea)	
10:40-11:10	Panel Discussion Yeo Ree YANG (The Catholic University of Korea, Korea) Jung Eun LEE (CHA University, Korea) Ji Yun JEONG (Soon Chun Hyang University, Korea)	
15:20-16:50	Clinical Update 4: Therapeutic Strategy for Thyroid Disease: The Evolution (K) Chairs: Ho-Cheol KANG (Chonnam National University, Korea) EunSook KIM (University of Ulsan, Korea)	Room 6
15:20-15:40	Introduction of Revised K-TIRADS Ji-hoon KIM (Department of Radiology, Seoul National University, Korea)	
15:40-16:00	Diagnosis & Management of Thyroid Nodule and Cancer Eun Kyung LEE (National Cancer Center, Korea)	
16:00-16:20	Thyroid Functional Disease: Management of Graves' Disease Ji Min HAN (Sungkyunkwan University, Korea)	
16:20-16:50	Panel Discussion Eui Young KIM (Dongnam Institute of Radiological & Medical Sciences, Korea) Hyo-Jeong KIM (Eulji University, Korea) Jaehoon JUNG (Gyeongsang National University, Korea)	

Day 1. October 28 (Thu)

Day 2. October 29 (Fri)

Day 3. October 30 (Sat)

POSTER



POSTER ORAL PRESENTATION

DAY 2. OCTOBER 29 (FRI) 13:10-14:00 / POSTER ORAL SESSION 1

Hypothalamus and Pituitary Gland & Adrenal Gland

Podium A

PP01 **IMPACT OF DIFFERENT GH NADIR CUTOFFS ON LONG-TERM BIOCHEMICAL REMISSION IN ACROMEGALY PATIENTS**

Jiwon KIM (Severance Hospital, Yonsei University College of Medicine, Korea)

PP02 **OPPOSITE METABOLIC OUTCOMES OF HYPOTHALAMIC MICROGLIA GRANULIN DEFICIENCY IN NORMAL DIET- AND HIGH FAT DIET-FED MICE**

Chae Beom PARK (Asan Institute for Life Sciences, Korea)

PP03 **PREOPERATIVE DIABETES MELLITUS PREDICTS POSTOPERATIVE WEIGHT GAIN IN PATIENTS WITH ACROMEGALY**

Han Na JANG (Seoul National University Hospital, Seoul National University College of Medicine, Korea)

PP04 **PRIMARY CILUM MODULATES GONADOTROPHIN-RELEASING HORMONE RECEPTOR SIGNALLING**

Soo-Hyun KIM (St. George's, University of London, United Kingdom)

PP05 **EXPRESSION OF CYP11B1 AND CYP11B2 IN ADRENAL ADENOMA CORRELATES WITH CLINICAL CHARACTERISTICS OF PRIMARY ALDOSTERONISM**

Chang Ho AHN (Seoul National University College of Medicine, Korea)

PP06 **PERCUTANEOUS ADRENAL RADIOFREQUENCY ABLATION: A SHORT REVIEW FOR ENDOCRINOLOGISTS**

Byung Kwan PARK (Samsung Medical Center, Sungkyunkwan University School of Medicine, Korea)

Bone and Mineral Metabolism

Podium B

PP07 **COMPARISON OF THE EFFICACY OF MONTHLY ORAL IBANDRONATE IN POSTMENOPAUSAL OSTEOPOROSIS PATIENTS WITH AND WITHOUT TYPE 2 DIABETES: A PROSPECTIVE, OPEN-LABEL STUDY**

Jinyoung KIM (Yeouido St. Mary's Hospital/The Catholic University of Korea School of Medicine, Korea)

PP08 **EFFECT OF FOLLOW-UP RALOXIFENE THERAPY AFTER DENOSUMAB DISCONTINUATION IN POSTMENOPAUSAL WOMEN**

Jeonghoon HA (Seoul St. Mary's Hospital, College of Medicine, The Catholic University of Korea, Korea)

PP09 **FAMILIAL CORRELATION AND HERITABILITY OF MUSCLE STRENGTH IN KOREAN ADULTS (KNHANES 2014-2019)**

Seongha SEO (Inha University Hospital, Inha University School of Medicine, Korea)

PP10 **ROLE OF FOLLICLE STIMULATING HORMONE ON BONE METABOLISM AND BODY MASS IN LATE POSTMENOPAUSAL WOMEN**

Chaiho JEONG (Uijeongbu St. Marys Hospital, College of Medicine, The Catholic University of Korea, Korea)

POSTER ORAL PRESENTATION

PP11 **THE ORPHAN NUCLEAR RECEPTOR NR4A1 MIGHT BE RELATED TO BOTH OSTEOPOROSIS AND ADIPOGENESIS**

Yilan JIN (Ajou University Medical Center, Korea)

PP12 **THE PATHO-PHYSIOLOGICAL ROLE OF TETRASPANIN 7 IN OSTEOCLASTS**

Minhee KIM (Ewha Womans University, Korea)

Diabetes, Insulin Resistance, Hypoglycemia

Podium C

PP13 **A PERK INHIBITOR ENHANCED INSULIN SYNTHESIS IN BETA CELLS UNDER METABOLIC STRESS BY REGULATION OF AUTOPHAGY ACTIVITY WITH AN ATG7-DEPENDENT MANNER**

Seoil MOON (Seoul National University Hospital, Korea)

PP14 **BLOOD PRESSURE AND CARDIOVASCULAR AND RENAL OUTCOMES IN PATIENTS WITH TYPE 2 DIABETES**

Bo-Yeon KIM (Soon Chun Hyang University Bucheon Hospital, Korea)

PP15 **CLINICAL EFFECT OF HOME CARE MANAGEMENT AND SPECIALIZED EDUCATION PILOT PROGRAM FOR TYPE 1 DIABETES**

Sejeong LEE (Yonsei University College of Medicine, Korea)

PP16 **HIGH HOMEOSTASIS MODEL ASSESSMENT FOR INSULIN RESISTANCE VALUE AS A BIOMARKER FOR DEVELOPMENT OF TYPE 2 DIABETES MELLITUS AND RESULTING COMPLICATIONS IN NON-DIABETIC ADULTS: A KOGES PROSPECTIVE COHORT STUDY**

Jeong-Yun LEE (Gwangju Institute of Science and Technology, Korea)

PP17 **IMPROVEMENT OF BETA CELL FUNCTION OF PANCREAS ON KOREAN TYPE 2 DIABETICS BY LONGTERM INSULIN PUMP THERAPY**

Soo Bong CHOI (Konkuk University ChungJu Hospital, Korea)

PP18 **REGULATION OF NK CELLS BY OBESITY AND ITS IMPLICATION IN THE DEVELOPMENT OF INSULIN RESISTANCE**

Jieun KIM (Soon Chun Hyang Institute of Medi-Bio Science (SIMS), Korea)

PP19 **REMISSION OF TYPE 2 DIABETES AFTER METABOLIC AND BARIATRIC SURGERY ACCORDING TO BODY MASS INDEX: A SYSTEMATIC REVIEW AND META-ANALYSIS**

Jae Hyun BAE (Korean University Anam Hospital, Korea)

Miscellaneous

Podium D

PP20 **DEVELOPMENT OF NONALCOHOLIC FATTY LIVER DISEASE IN PATIENTS WITH GLOMERULAR HYPERFILTRATION: CROSSTALK BETWEEN LIVER AND KIDNEY**

Dae-Jeong KOO (Changwon Fatima Hospital, Korea)

Day 1. October 28 (Thu)

Day 2. October 29 (Fri)

Day 3. October 30 (Sat)

POSTER

Day 1. October 28 (Thu)

Day 2. October 29 (Fri)

Day 3. October 30 (Sat)

POSTER



POSTER ORAL PRESENTATION

POSTER ORAL PRESENTATION

Day 1. October 28 (Thu)

- PP21 **ASSOCIATION OF STATIN USE WITH LOSS OF SKELETAL MUSCLE MASS: A PROPENSITY SCORE? MATCHED ANALYSIS**
Jang Won SON (Bucheon St. Marys Hospital, The Catholic University of Korea, Korea)
- PP22 **DEVELOPMENT OF HYDROGEL-MEDIATED CELLULAR SENESENCE MODEL FOR AGING RESEARCH**
Shibo WEI (Sungkyunkwan University (SKKU) School of Medicine, Korea)
- PP23 **ELEVATED SERUM GAMMA-GLUTAMYL TRANSFERASE IS ASSOCIATED WITH LOW MUSCLE FUNCTION IN ADULTS, INDEPENDENT OF MUSCLE MASS**
Seunghyun LEE (Severance Hospital, Endocrine Research Institute, Yonsei University College of Medicine, Korea)

Day 2. October 29 (Fri)

- PP24 **IDENTIFICATION OF TISSUE-SPECIFIC SECRETORY PROTEINS IN THE CIRCULATION OF LIVE MICE**
Kwang-Eun KIM (Korea Advanced Institute of Science and Technology, Korea)
- PP25 **INTERACTIVE EFFECTS OF SERUM LEPTIN LEVELS AND PHYSICAL COMORBIDITY ON THE PHARMACOTHERAPEUTIC RESPONSE OF DEPRESSIVE DISORDERS**
Wonsuk CHOI (Chonnam National University Hwasun Hospital, Chonnam National University Medical School, Korea)
- PP26 **POTENTIALS OF RED CELL DISTRIBUTION WIDTH AS A BIOMARKER FOR POORER HOSPITALIZATION-RELATED OUTCOMES IN ADMITTED PATIENTS**
Seol A JANG (Yongin Severance Hospital, Yonsei University College of Medicine, Korea)

Obesity and Metabolism & Lipid and Cardiovascular Disease

Podium E

- PP27 **FRUCTOSE INDUCES HEPATIC FIBROGENESIS VIA REGULATING THE ACTIVATION AND MIGRATION OF HEPATIC STELLATE CELLS**
So Young PARK (Kangwon National University, Korea)
- PP28 **P32 AND LIVER FIBROSIS**
Giang Nguyen THI (Kangwon National University, Korea)
- PP29 **SHIFT WORK IS ASSOCIATED WITH NORMAL WEIGHT OBESITY IN COMMUNITY-DWELLING ADULTS**
Sungjae SHIN (Yonsei University College of Medicine, Korea)
- PP30 **THE EFFECTS OF IRISIN ON THE INTERACTION BETWEEN LX-2 HEPATIC STELLATE CELL AND THP-1 MACROPHAGE**
Dinh Vinh DO (Internal Medicine, Kangwon National University, School of Medicine, Korea)
- PP31 **THE ROLE OF OLFACTORY MARKER PROTEIN IN ADIPOGENESIS**
Ya Ru BAO (Yonsei University, Korea)
- PP32 **PAI-1 AND ITS POLYGENIC RISK SCORE ARE ASSOCIATED WITH THE INCIDENCE OF CARDIOVASCULAR DISEASE**
Yoo Hyung KIM (Seoul National University Hospital, Korea)

Withdrawal

Day 3. October 30 (Sat)

POSTER

Day 1. October 28 (Thu)

Day 2. October 29 (Fri)

Day 3. October 30 (Sat)

POSTER

Thyroid and Thyroid Cancer

Podium F

- PP33 **ALL-CAUSE MORTALITY RISK OF PATIENTS WITH THYROID CANCER COMPARED TO GENERAL POPULATION: A NATIONWIDE CASE-CONTROL COHORT STUDY**
Ji Yoon KIM (Korea University College of Medicine, Korea)
- PP34 **CLINICAL CHARACTERISTICS OF PATIENTS WITH THYROTOXIC PERIODIC PARALYSIS; AN EXPERIENCE FROM A TERTIARY CARE HOSPITAL**
Yu Ji KIM (Jeonbuk National University Hospital, Korea)
- PP35 **EXCESSIVE IODINE EXPOSURE DURING PREGNANCY IS RELATED TO THE MATERNAL THYROIDITIS AND HIGHER PRIMARY CESAREAN SECTION RATE**
Chae Won CHUNG (Seoul National University Hospital, Korea)
- PP36 **FREQUENT DIAGNOSTIC RADIATION EXPOSURE AND HIGH-DOSE RADIOACTIVE IODINE THERAPY ARE INDEPENDENT RISK FACTORS FOR SECONDARY PRIMARY MALIGNANCIES IN THYROID CANCER SURVIVORS: A NATIONWIDE COHORT STUDY**
Mijin KIM (Biomedical Research Institute, Pusan National University Hospital, Korea)
- PP37 **METASTATIC STATUS OF CENTRAL LYMPH NODE IS IMPORTANT FOR PREDICTING TUMOR RECURRENCE AND DISTANT METASTASIS IN PAPILLARY THYROID MICROCARCINOMA**
Ying LI (Seoul National University College of Medicine, Korea)
- PP38 **MOLECULAR CLASSIFICATION OF FOLLICULAR THYROID CARCINOMA BASED ON TERT PROMOTER MUTATIONS**
Hyunju PARK (Thyroid Center, Samsung Medical Center, Sungkyunkwan University School of Medicine, Korea)
- PP39 **MUTATIONS IN KEY FUNCTIONAL GROUPS ADDICTIVELY INCREASE MORTALITY IN PATIENTS WITH BRAFV600E MUTANT ADVANCED THYROID CANCER**
Eyun SONG (Korea University College of Medicine and School of Medicine, Korea)
- PP40 **TSH IS ASSOCIATED WITH CHOLESTEROL LEVEL IN TOTAL THYROIDECTOMIZED FEMALE REGARDLESS OF TPO ANTIBODY STATUS**
Yoon-A HWANG (Severance Hospital, College of Medicine, Yonsei University, Korea)



POSTER ORAL PRESENTATION

DAY 3. OCTOBER 30 (SAT) 13:10-14:00 / POSTER ORAL SESSION 2

Bone and Mineral Metabolism

Podium A

- PP41 **ADIPOGENESIS IS ASSOCIATED WITH LOW BONE MASS IN COMMUNITY-DWELLING NON-UNDERWEIGHT ADULTS, INDEPENDENT OF SARCOPENIA**
Seunghyun LEE (Severance Hospital, Endocrine Research Institute, Yonsei University College of Medicine, Korea)
- PP42 **DEVELOPMENT AND VALIDATION OF COMMON DATA MODEL-BASED FRACTURE PREDICTION MODEL**
Sung Hye KONG (Seoul National University Bundang Hospital, Korea)
- PP43 **PREOPERATIVE THORACIC MUSCLE MASS PREDICTS CHANGES IN BONE DENSITY AFTER PARATHYROIDECTOMY IN PRIMARY HYPERPARATHYROIDISM**
Seung Won BURM (Severance Hospital, Yonsei University College of Medicine, Korea)
- PP44 **RELATIONSHIP BETWEEN HIGH FATTY LIVER INDEX AND RISK OF FRACTURE: A NATIONAL POPULATIONBASED STUDY CONDUCTED IN KOREA**
Min-Ji KIM (Kyungpook National University Hospital, Korea)

Diabetes, Insulin Resistance, Hypoglycemia

Podium B

- PP45 **REAL WORLD RESULTS OF SGLT2I AND GLP1RA COMBINATION THERAPY**
Jun Hwa HONG (Daejeon Eulji Medical Center, Eulji University, Korea)
- PP46 **COMPARISON OF DRUG COMBINATIONS CONSIDERED WHEN STARTING BASAL INSULIN IN PATIENTS WITH TYPE 2 DIABETES MELLITUS WITH POOR GLYCEMIC CONTROL**
Young-Eun KIM (Yonsei University College of Medicine, Korea)
- PP47 **PROTEINURIA IS A SIGNIFICANT PREDICTIVE FACTOR FOR THE PROGRESSION OF CAROTID ARTERY ATHEROSCLEROSIS IN NON-DIABETES**
Young-Eun KIM (Yonsei University College of Medicine, Korea)
- PP48 **EFFECTS OF A KETOGENIC DIET ON MASS AND FUNCTION OF SKELETAL MUSCLE IN DIABETIC MICE**
Sol Been PARK (Seoul Women's University, Korea)
- PP49 **SGLT2 INHIBITORS REDUCED RENAL COMPOSITE OUTCOMES COMPARED TO DPP4 INHIBITORS IN REAL-WORLD CLINICAL PRACTICE**
Sang Joon PARK (Soon Chun Hyang University Hospital, Division of Endocrinology and Metabolism, Korea)
- PP50 **THE NEUROPROTECTIVE EFFECT OF RESVERATROL IN A MOUSE MODEL OF TYPE 2 DIABETES**
Oh Hee CHOI (Seoul Women's University, Korea)

POSTER ORAL PRESENTATION

Obesity and Metabolism & Adrenal Gland & Lipid and Cardiovascular Disease

Podium C

- PP51 **A RANDOM FOREST-DRIVEN DISCOVERY OF NASH-ASSOCIATED HEPATOKINES**
Baeki E KANG (Sungkyunkwan University (SKKU) School of Medicine, Korea)
- PP52 **MACHINE LEARNING-BASED DEVELOPMENT OF A NOVEL DIAGNOSTIC INDEX FOR NON-ALCOHOLIC HEPATIC STEATOSIS USING PLASMA METABOLOMICS**
Dongryeol RYU (Sungkyunkwan University (SKKU) School of Medicine, Korea)
- PP53 **MELATONIN PROTECT HIGH-FAT DIET INDUCED OBESITY VIA NUTRIENT TRANSPORTER AND CHOLESTEROL SYNTHESIS ALTERATIONS**
Bukyung KIM (Kosin University College of Medicine, Korea)
- PP54 **THE REGULATION OF DIFFERENTIATION, GLUCOSE METABOLISM AND THERMOGENESIS BY MIG-6 IN BROWN ADIPOCYTES**
Sorim CHOUNG (College of Medicine, Chungnam National University, Korea)
- PP55 **ASIAN CONFERENCE ON TUMOR ABLATION GUIDELINES FOR ADRENAL TUMOR ABLATION**
Byung Kwan PARK (Samsung Medical Center, Sungkyunkwan University School of Medicine, Korea)
- PP56 **PARADIGM SHIFT OF DYSLIPIDEMIA MANAGEMENT IN PRIMARY CARE, 1 YEAR COHORT STUDY**
Jun Hwa HONG (Daejeon Eulji Medical Center, Eulji University, Korea)

Thyroid and Thyroid Cancer

Podium D

- PP57 **ASSOCIATION BETWEEN LOW HIGH-DENSITY LIPOPROTEIN CHOLESTEROL LEVELS AND THYROID CANCER - A NATIONWIDE POPULATION-BASED STUDY**
Jinyoung KIM (Yeouido St. Mary's Hospital/The Catholic University of Korea School of Medicine, Korea)
- PP58 **MACHINE LEARNING-ASSISTED DIFFERENTIAL DIAGNOSIS OF THYROTOXICOSIS**
Jinyoung KIM (Yeouido St. Mary's Hospital/The Catholic University of Korea School of Medicine, Korea)
- PP59 **IGG4-RELATED THYROIDITIS, A SINGLE CENTER EXPERIENCE IN KOREA**
Meihua JIN (Asan Medical Center, Korea)
- PP60 **PREDICTING THE RISK OF RECURRENCE DURING TREATMENT OF ANTI-THYROID DRUG THERAPY USING THE CHANGE OF THYROTROPIN RECEPTOR ANTIBODY IN PATIENTS WITH GRAVES' HYPERTHYROIDISM**
Meihua JIN (Asan Medical Center, Korea)
- PP61 **INITIAL THYROID VOLUME REDUCTION IN SUBACUTE THYROIDITIS PATIENTS CAN PREDICT OVERT HYPOTHYROIDISM DURING THE DISEASE COURSE**
Ji Yong PARK (Chonnam National University Medical School, Korea)
- PP62 **LONG NONCODING RNA COMBINATIONS FOR MOLECULAR DIAGNOSIS OF THYROID CANCER**
Daham KIM (Yonsei University College of Medicine, Korea)
- PP63 **SEX AND AGE DIFFERENCES IN THYROID-DISRUPTING EFFECTS OF PERSISTENT ORGANIC POLLUTANTS AND THEIR MECHANISM OF ACTION AMONG GENERAL ADULT POPULATION: KOREAN NATIONAL ENVIRONMENTAL HEALTH SURVEY 2015-2017**
Min Joo KIM (Seoul National University College of Medicine, Korea)



POSTER EXHIBITION

POSTER EXHIBITION

Day 1. October 28 (Thu)

Day 2. October 29 (Fri)

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POSTER

Adrenal Gland

- PE001 **ALDOSTERONE IMMUNOASSAY-SPECIFIC CUTOFF VALUE IN SUPINE AND SEATED SALINE SUPPRESSION TEST FOR DIAGNOSING PRIMARY ALDOSTERONISM**
So Yoon KWON (Samsung Medical Center, Sungkyunkwan University School of Medicine, Korea)
- PE002 **ASSOCIATION OF ANDROGEN EXCESS AND BONE MINERAL DENSITY IN WOMEN WITH CONGENITAL ADRENAL HYPERPLASIA WITH 21-HYDROXYLASE DEFICIENCY**
Dong Ho LEE (Seoul National University Hospital, Korea)
- PE003 **METABOLIC SIGNATURES OF ADRENAL STEROIDS REVEAL SUBTYPES OF CONGENITAL ADRENAL HYPERPLASIA**
Jongsung NOH (Korea Institute of Science and Technology, Korea)
- PE004 **ONE-STEP SCREENING OF ADRENAL DISORDERS BASED ON METABOLIC PROFILING OF ADRENAL CORTICAL AND MEDULLARY HORMONES**
Chaelin LEE (Korea Institute of Science and Technology, Korea)
- PE005 **PREDICTING SURGICALLY CURABLE PRIMARY ALDOSTERONISM**
Miso YOO (Jeju National University School of Medicine, Korea)
- PE006 **SPONTANEOUS RUPTURE OF ADRENOCORTICAL CARCINOMA WITH SUBCLINICAL CUSHING'S SYNDROME: A CASE REPORT WITH LITERATURE REVIEW**
Young Ki KIM (Jeonbuk National University Medical School, Jeonbuk National University Hospital, Korea)
- PE007 **THE INCIDENCE OF CRITICAL ILLNESS RELATED CORTICOSTEROID INSUFFICIENCY AND CLINICAL OUTCOMES OF CRITICALLY ILL PATIENTS WITH COVID-19 AT A TERTIARY HOSPITAL**
Anna Elvira ARCELLANA (University of the Philippines-Manila, Philippine General Hospital, Philippines)

Bone and Mineral Metabolism

- PE008 **BIOLOGICAL EFFECT OF CORYLIN ON BONE DISORDERS: PHARMACOLOGICAL ASPECTS THROUGH LITERATURE DATA ANALYSIS**
Kanika PATEL (Sam Higginbottom University of Agriculture, Technology and Sciences, India)
- PE009 **CBFB PREVENTS ARTICULAR CARTILAGE DESTRUCTION BY MAINTAINING THE INTEGRITY OF THE TGF- β SIGNAL PATHWAY THROUGH STABILIZATION OF RUNX1**
Xiangguo CHE (School of Medicine, Kyungpook National University, Korea)
- PE010 **DIAGNOSTIC PERFORMANCE OF 18F-CHOLINE PET/CT FOR DETECTION OF HYPERFUNCTIONING PARATHYROID GLANDS IN PATIENTS WITH HYPERPARATHYROIDISM**
Jung HEO (Samsung Medical Center, Korea)

- PE011 **HEMOPHILIC PSEUDOTUMOR MASQUERADING AS ANEURYSMAL BONE CYST**
Rimlee DUTTA (AIIMS, India) **Withdrawal**

- PE012 **OVARIAN SMALL CELL CARCINOMA HYPERCALCEMIC TYPE: A RARE CASE REPORT**
Harshita DUBEY (All India Institute of Medical Sciences, India) **Withdrawal**

- PE013 **THERAPEUTIC POTENTIALS OF DIMERIC CYS25PTH(1-34) PEPTIDE FOR OSTEOPOROSIS AND FRACTURE HEALING OF THE BONES**

Sihoon LEE (Gachon University College of Medicine, Korea)

- PE014 **UNVEILING GENETIC VARIANTS FOR AGE-RELATED SARCOPENIA BY CONDUCTING A GENOME-WIDE ASSOCIATION STUDY ON KOREAN ELDERLY COHORTS**

Je Hyun SEO (Veterans Health Service Medical Center, Korea)

- PE015 **UNVEILING GENETIC VARIANTS UNDERLYING VITAMIN D DEFICIENCY IN MULTIPLE KOREAN COHORTS BY A GENOME-WIDE ASSOCIATION STUDY**

Ye An KIM (Veterans Health Service Medical Center, Korea)

Diabetes, Insulin Resistance, Hypoglycemia

- PE016 **A STUDY OF BLADDER DYSFUNCTION IN WOMEN WITH DIABETES MELLITUS**
Hoang NGOC (Family Hospital, Vietnam) **Withdrawal**

- PE017 **AMELIORATING EFFECTS OF PYRROLOQUINOLINE QUINONE, S. CUMINI AND VITAMIN C IN THE REGULATION OF DIABETES MELLITUS: A COMPARATIVE STUDY**

Narendra KUMAR (Devi Ahilya University, Indore, India)

- PE018 **ANALYSIS OF VAGINAL MICROBIOMIAL CHANGE IN 20-65YEARS OLD KOREAN WOMEN WITH DIABETES BY USING 16S RRNA SEQUENCING AND WHOLE-GENOME SEQUENCING (SHOTGUN METAGENOMICS)**

Min Jeong KIM (The Catholic University of Korea, Bucheon St. Mary's hospital, Korea)

- PE019 **ASSOCIATION BETWEEN DIFFERENT BODY ADIPOSITY INDICES AND INSULIN RESISTANCE IN COMMUNITY-DWELLING INDIVIDUALS**

Azadeh ALIZARGAR (National Taipei University of Technology, Taiwan)

- PE020 **ASSOCIATION BETWEEN INSULIN RESISTANCE AND ATHEROSCLEROSIS INDICES IN COMMUNITY-DWELLING INDIVIDUALS**

Javad ALIZARGAR (National Taipei University of Nursing and Health Sciences, Taiwan)

- PE021 **ASSOCIATION BETWEEN VITAMIN D AND BRAIN DERIVED NEUROTROPHIC FACTOR AND LEVELS IN TYPE TWO DIABETES MELLITUS PATIENTS**

Mohammad ALQUDAH (Arabian Gulf University, Bahrain)

Day 1. October 28 (Thu)

Day 2. October 29 (Fri)

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POSTER



POSTER EXHIBITION

POSTER EXHIBITION

Day 1. October 28 (Thu)

Day 2. October 29 (Fri)

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POSTER

- PE087 CAUSAL ASSOCIATION BETWEEN IRON IN EXCESS AND RISK FOR CARDIOMETABOLIC OUTCOMES IN TAIWANESE HAN CHINESE AND EUROPEAN ANCESTRY: MEDIAN RANDOMIZATION ANALYSES
Withdrawal
Vanessa Joy TIMOTEO (Taiwan International Graduate Program in Molecular Medicine, Taiwan)
- PE088 DYNAMIC ACTIN REMODELING MEDIATES LIPOSECRETION DURING DEDIFFERENTIATION OF MATURE ADIPOCYTES
Kun-Young PARK (Korea Advanced Institute of Science and Technology, Korea)
- PE089 EMBRYOTOXIC AND TERATOGENIC EFFECTS OF BISPHENOL ANALOGS AND THEIR MIXTURE IN ZEBRAFISH (DANIO RERIO) EMBRYOS
Razif DASIMAN (Universiti Teknologi MARA Selangor, 42300 Bandar Puncak Alam, Malaysia)
- PE090 IMPLICATIONS OF OBESITY ON MALE FERTILITY HORMONES
Withdrawal
Saheed Oladele AMUSAT (Chemical Pathology and Endocrine Laboratory, Federal Medical Centre Birnin Kudu, Nigeria)
- PE091 NEUROENDOCRINE TUMOR OF CERVIX: A CASE REPORT
Withdrawal
Saransh VERMA (Undergraduate, India)
- PE092 NUTRITIONAL, FUNCTIONAL, AND TOXICOLOGICAL PROFILE OF FREEZE-DRIED FRUITS OF LIPOTE (SYZYGIUM POLYCEPHALOIDES (C.B. ROB.) MERR.)
Ann CAYETANO (University of the Philippines Los Banos, Philippines)
- PE093 PROCYANIDIN TRIMER C1 MITIGATES BISPHENOL A-INDUCED MALE DYSFUNCTION OF AGING TESTICULAR IN MICE
Mastura Abd MALEK (Faculty of Medicine, Universiti Teknologi MARA, Malaysia)
- PE094 RAPID NUTRITION ASSESSMENT SURVEY ON FOOD INSECURITY, COPING MECHANISMS, AND NUTRITION-RELATED SERVICES IN THE PHILIPPINES DURING THE COVID-19 PANDEMIC
Withdrawal
Eva A. GOYENA (Food and Nutrition Research Institute, Philippines)
- PE095 SENSITIVITY AND SPECIFICITY OF CLINICAL SCORING SYSTEMS IN DIAGNOSING HYPOTHYROIDISM IN PATIENTS WITH TYPE 2 DIABETES MELLITUS
Wesley JOYAL (Christian Medical College, Baba Farid University, India)
- Obesity and Metabolism**
- PE096 ACETATE PROMOTES WEIGHT GAIN BY INCREASING INSULIN AND GHRELIN SECRETION THROUGH PARASYMPATHETIC ACTIVATION
Jae-Hyung PARK (Keimyung University School of Medicine, Korea)
- PE097 ASSOCIATION BETWEEN METABOLICALLY HEALTHY OBESITY AND SUBCLINICAL ATHEROSCLEROSIS IN THE CARDIOVASCULAR AND METABOLIC DISEASES ETIOLOGY RESEARCH CENTER (CMERC) COHORT
Seongha SEO (Inha University School of Medicine, Korea)

Day 1. October 28 (Thu)

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POSTER

- PE098 ASSOCIATION OF GLUCAGON-TO-INSULIN RATIO AND METABOLIC SYNDROME IN PATIENTS WITH TYPE 2 DIABETES
Juno LEE (College of Medicine, Jeju National University, Korea)
- PE099 DEVELOPMENT AND EVALUATION OF AN ALTERNATIVE OBESE RAT MODEL OF TYPE 2 DIABETES USING FRUCTOSE, SACCHARIN AND STREPTOZOTOCIN
Md. Shahidul ISLAM (University of KwaZulu-Natal, South Africa)
- PE100 EFFECT OF ADMINISTRATION OF AVOCADO JUICE (PERSEA AMERICANA MILL) ON RAT-INDUCED MALONDIALDEHYD (RATTUS NOVERG) LIVER DISEASE
Withdrawal
Kahinta PUTRI (Universitas Islam Indonesia, Indonesia)
- PE101 EFFECTS OF KEFIR (FERMENTED MILK) ON NON-ALCOHOLIC FATTY LIVER DISEASE
Withdrawal
Rizki Fajar UTAMI (Medical Faculty Islamic University of Indonesia, Indonesia)
- PE102 EFFICACY AND SAFETY OF SEMAGLUTIDE FOR WEIGHT LOSS IN OBESITY WITHOUT DIABETES: A SYSTEMATIC REVIEW AND META-ANALYSIS
Hanna Clementine TAN (St. Luke's Medical Center Quezon City, Philippines)
- PE103 FOOD CRAVING BEHAVIOR IS REGULATED BY DOPAMINE D2 RECEPTOR-EXPRESSING NEURONS IN THE CENTRAL AMYGDALA
Bokyeong KIM (Korea University, Korea)
- PE104 IRON SUPPLEMENTATION PROTECTS AGAINST OBESITY BY ACTING AS AN NNMT INHIBITOR IN MICE
Se Lin KIM (Seoul Women's University, Korea)
- PE105 LACTOBACILLUS PLANTARUM LMT1-48 SUPPLEMENTATION REDUCES BODY FAT IN KOREANS WITH OBESITY: A RANDOMIZED, DOUBLE-BLIND, PLACEBO-CONTROLLED TRIAL
Minji SOHN (Seoul National University Bundang Hospital, Korea)
- PE106 MACROPHAGE-SPECIFIC PROGRANULIN DEFICIENCY PREVENTS DIET-INDUCED OBESITY AND METABOLIC COMPLICATIONS
Chan Hee LEE (Hallym University, Korea)
- PE107 MORINGA OLEIFERA, LAM. ROOTS EXTRACT INCREASE INSULIN EXPRESSION IN PANCREATIC ISLET CELLS OF METABOLIC SYNDROME RATS MODEL
Siti Zahra AFIFAH (Sebelas Maret University, Indonesia)
- PE108 PHYSICAL ACTIVITY AND ITS ASSOCIATING FACTORS AMONG OVERWEIGHT AND OBESE FEMALE NURSES IN A TERTIARY HOSPITAL, MALAYSIA
Suzana YUSOF (UiTM Puncak Alam Campus, Malaysia)



POSTER EXHIBITION

POSTER EXHIBITION

Day 1. October 28 (Thu)

Day 2. October 29 (Fri)

Day 3. October 30 (Sat)

POSTER

- PE109 **PLASMA ENAMPT GENERATES THE DIURNAL RHYTHM OF PHYSICAL ACTIVITY THROUGH HYPOTHALAMIC MECHANISMS**
Jae Woo PARK (Ulsan College of Medicine, Korea)
- PE110 **POMC NEURONAL PKA SIGNALING CONTROLS INTESTINAL GLUCOSE UPTAKE VIA THE PARASYMPATHETIC NERVOUS SYSTEM**
Hyo Sun LIM (Asan medical center, Korea)
- PE111 **PREVALENCE OF PRE-DIABETES, DIABETES, ABDOMINAL OBESITY AND HYPERTENSION AMONG THE SERVICE COMMUNITIES OF PHALODI CITY OF INDIA**
Nitin KUMAR (Lords University, India)
- PE112 **PRIMARY CILIA IN HYPOTHALAMIC ASTROCYTES ARE REQUIRED FOR THE APPETITE-SUPPRESSING EFFECT OF ESTROGEN**
Won Hee JANG (Asan Medical Center, Korea)
- PE113 **REPRODUCIBLE MOUSE MODELING OF SMALL FOR GESTATIONAL AGE WITH CATCH-UP GROWTH FAILURE**
Hyeon Seok MOON (Seoul National University College of Medicine, Korea)
- PE114 **SCREEN TIME HOURS IN METABOLIC SYNDROME- TO WORRY OR NOT.**
Deviprasad SOMAN (Under DHS, India)
- PE115 **THE EFFECT OF A KETOGENIC DIET AND CALORIE RESTRICTION ON BODY FAT AND COGNITIVE FUNCTION**
Sumin HEO (Seoul Women's University, Korea)
- PE116 **THE IDENTIFICATION OF GENES-RELATED WITH POLYCYSTIC OVARY SYNDROME AND THE VERIFICATION OF THE PATHOGENIC IMPLICATION OF RELEVANT GENES.**
Jaebeen IM (Gachon University, Korea)
- PE117 **THERAPEUTIC POTENTIAL AND ANTIHYPERLIPIDEMIC ACTIVITY OF IRISOLIDONE IN THE MEDICINE THROUGH SCIENTIFIC DATA ANALYSIS**
Dinesh Kumar PATEL (Sam Higginbottom University of Agriculture, Technology and Sciences, India)
- Thyroid and Thyroid Cancer**
- PE118 **A CASE OF THYROTOXICOSIS WITH CONCOMITANT PULMONARY ALVEOLAR PROTEINOSIS WHICH WAS MISDIAGNOSED WITH PULMONARY EDEMA**
Sun Hee KIM (Presbyterian Medical Center, Korea)
- PE119 **A PROSPECTIVE FOLLOW-UP STUDY OF THYROID FUNCTION AND AUTOIMMUNITY FOLLOWING MRNA AND INACTIVATED SARS-COV-2 VACCINATION**
David Tak Wai LUI (The University of Hong Kong, Hong Kong)

Day 1. October 28 (Thu)

Day 2. October 29 (Fri)

Day 3. October 30 (Sat)

POSTER

- PE120 **ACTIVE SURVEILLANCE VERSUS IMMEDIATE SURGERY FOR LOW-RISK PAPILLARY THYROID MICROCARCINOMA PATIENTS: A COST-MINIMIZATION ANALYSIS FROM THE MAESTRO STUDY**
Kyungsik KIM (Seoul National University College of Medicine, Korea)
- PE121 **ASSOCIATION BETWEEN THE TYPE OF THYROID DYSFUNCTION INDUCED BY IMMUNE CHECKPOINT INHIBITORS AND PROGNOSIS IN CANCER PATIENTS**
Han-Sang BAEK (Seoul St. Mary's Hospital, College of Medicine, The Catholic University of Korea,, Korea)
- PE122 **EFFICACY AND SAFETY OF SINGLE-SESSION RADIOFREQUENCY ABLATION IN TREATING BENIGN THYROID NODULES: A SHORT-TERM PROSPECTIVE COHORT STUDY**
Van Bang NGUYEN (Da Nang Family Hospital, Vietnam)
- PE123 **EXOPHYTIC, FUNGATING AND NECROTIC PAPILLARY THYROID CARCINOMA: A RARE AND COMPLEX PRESENTATION OF A WELL-DIFFERENTIATED MALIGNANCY**
Harold Henrison CHIU (Philippine General Hospital, Philippines)
- PE124 **HIGH DIAGNOSTIC YIELD OF NEXT GENERATION SEQUENCING IN CONGENITAL HYPOTHYROIDISM WITH GLAND IN SITU**
Jisun PARK (Inha University Hospital, Korea)
- PE125 **IMPACT OF THE ENVIRONMENTALLY RELEVANT EXPOSURE DOSAGE OF BISPHENOL-S ON NEONATAL THYROID MORPHOLOGY**
Rekha MEENA (SDMC, India)
- PE126 **LOBEGLITAZONE, A PEROXISOME PROLIFERATOR-ACTIVATED RECEPTOR-GAMMA AGONIST, INHIBITS PAPILLARY THYROID CANCER CELL MIGRATION AND INVASION BY SUPPRESSING P38 MAPK SIGNALING PATHWAY.**
Jun-Qing JIN (Seoul St. Marys Hospital, College of Medicine, Korea)
- PE127 **LONG-TERM OUTCOMES AND CAUSES OF DEATH AMONG MEDULLARY THYROID CARCINOMA PATIENTS WITH DISTANT METASTASES**
Hyunju PARK (Thyroid Center, Samsung Medical Center, Sungkyunkwan University School of Medicine, Korea)
- PE128 **MALIGNANCY RATE OF BETHESDA CLASS III THYROID NODULES BASED ON THE PRESENCE OF LYMPHOCYTIC THYROIDITIS IN SURGICAL PATIENTS**
Yoon Young CHO (Soon Chun Hyang University Bucheon Hospital, Korea)
- PE129 **PREVALENCE OF AUTOIMMUNE THYROIDITIS AMONG PATIENTS WITH HYPOTHYROIDISM IN MONGOLIA**
Nomin-Erdene MINJUURDORJ (Third State Central Hospital, Mongolia)



POSTER EXHIBITION

Day 1. October 28 (Thu)

PE130 **REGIONAL VARIATIONS OF THE INCIDENCE RATE OF LYMPH NODE METASTASIS IN PAPILLARY THYROID CARCINOMA : SINGLE-CENTER CASE SERIES AND LITERATURE REVIEW**
Ting-Teng YANG (Taipei Medical University Hospital, Taiwan)

PE131 **SARS-COV-2 INFECTION AND DE QUERVAIN THYROIDITIS: A SYSTEMATIC REVIEW**
Indah Sagitaisna PUTRI (Sebelas Maret University, Indonesia)

Withdrawal

PE132 **SUBCLINICAL HYPOTHYROIDISM CONDITION OF AUTOIMMUNE THYROIDITIS**
Otgonbayar DAVAA (Fourth hospital, Mongolia)

PE133 **TERT PROMOTER MUTATION TEST IN ALL THYROID CANCER PATIENTS FOR THE PAST TWO YEARS AT A TERTIARY REFERRAL HOSPITAL IN KOREA: A REAL-WORLD RESULT**
Heera YANG (Samsung Medical Center, Sungkyunkwan University School of Medicine, Korea)

PE134 **THE EFFECT OF DIETARY IODINE INTAKE AND SEAWEED SOUP CONSUMPTION DURING PREGNANCY AND EARLY POSTPARTUM PERIOD ON MATERNAL THYROID FUNCTION AND BIRTH OUTCOMES IN KOREAN WOMEN**
Dal Lae JU (Department of Nutrition, SMG-SNU Boramae Medical Center, Korea)

PE135 **THE INDEPENDENT ASSOCIATION OF TSH AND FREE TRIIODOTHYRONINE LEVELS WITH LYMPHOCYTE COUNTS AMONG COVID-19 PATIENTS**
David Tak Wai LUI (The University of Hong Kong, Hong Kong)

PE136 **THE THYROID STIMULATING IMMUNOGLOBULIN BIOASSAY CUT-OFF VALUE TO PREDICT THE RELAPSE SHOULD BE LOWER THAN THAT TO DIAGNOSE GRAVES' DISEASE**
Han-Sang BAEK (Seoul St. Marys Hospital, College of Medicine, The Catholic University of Korea, Korea)

PE137 **THYROID HORMONE PROFILE AND ITS PROGNOSTIC IMPACT ON THE CORONAVIRUS DISEASE 2019 IN KOREAN PATIENTS**
Seo Young SOHN (Myongji Hospital, Hanyang University College of Medicine, Korea)

PE138 **THYROTOXIC PERIODIC PARALYSIS SECONDARY TO GRAVE'S DISEASE**
Ron Andre AGBAYANI (Adventist Medical Center Manila, Philippines)

PE139 **TREATMENT MODALITY AND RISK OF HEART FAILURE IN PATIENTS WITH LONG-STANDING GRAVES' DISEASE**
Eyun SONG (Korea University College of Medicine and School of Medicine, Korea)

PE140 **WHEN AN AGGRESSIVE COMPONENT TAKES OVER: MIXED PAPILLARY-ANAPLASTIC THYROID CANCER**
Anna Elvira ARCELLANA (University of the Philippines-Manila, Philippine General Hospital, Philippines)

Day 2. October 29 (Fri)

POSTER

평점안내(KOREAN ONLY)

연수평점 안내 : 10월 29일(금)부터 30일(토)내에 이수한 강의만 평점 인정됩니다.

구분	10/29(금)	10/30(토)	합계
의사협회	최대 6점	최대 6점	12점
내과전문의 평생교육	1점	1점	2점
내과전공의 외부학술회의	2점		2점
초음파 지도전문의 교육	3점 * 현장참석 필수	해당없음	3점

평점인정기준

- 수강 시간의 총합으로 평점 발급

구분	기준	구분	기준
의사협회	온라인 연수교육 이수시간	내과전문의 평생교육	행사 종료 후, 대한의사협회에서 발행되는 이수확인서 또는 학회 참석 확인서를 대한내과학회로 제출하면 최대 2점 인정
	1시간 미만: 0평점		
	1시간 이상 2시간 미만: 1평점		
	2시간 이상 3시간 미만: 2평점	내과전공의 외부학술회의	본인 참석(대리 출석 불가), 일별 2회 이상 출결체크(입장, 퇴장) 완료한 내과 전공의만 해당
	3시간 이상 4시간 미만: 3평점		
	4시간 이상 5시간 미만: 4평점	초음파 지도전문의 교육	현장참석 필수, 강의실 내 출결 장부 작성 (입장, 퇴장)
	5시간 이상 6시간 미만: 5평점		
	6시간 이상: 6평점(1일 최대 이수가능평점)		

*온라인 연수교육 이수시간에 따른 평점 인정 예시)

- 50분: 평점 인정 불가

- 1시간 40분: 1평점만 인정 (2평점 인정 불가)

출결방법 (온라인 참석)

- 최초 로그인, 최종 로그아웃 기록 필수('로그아웃' 클릭 없이 창닫기 후 나간 경우, 평점 인정 불가)

- 참석하는 각 세션 별 장시간과 퇴장시간 모두 기록 필수(입장시간 기록과 퇴장시간 기록 둘 중 하나라도 누락될 경우, 해당 강의는 평점 인정 불가)

- 입장/퇴장 시간은 누락되며, 1일간 누적된 시간으로 평점 반영

- 출결방법은 의협평점 규정에 따라 운영

구분	기준
Live Session (실시간 화상 강의) [10/29(금), 10/30(토)] 세션 별 평점 산정	• 실시간 접속하여 이수한 시간에 대한 평점 인정 • 세션 별 출석 버튼은 세션 시작 전후 5분간, 퇴장 버튼은 세션 종료 전후 5분간만 노출됨 (정해진 시간 내 클릭하여 세션 별 입장/퇴장 시간 기록 필수! 누락 시에는 평점인정 불가)

출결방법 (오프라인 참석)

- 현장 1일 최소 2회의 바코드 태그 필수

- 오프라인 참석자는 온라인 플랫폼을 통하여 평점을 이수할 수 없음.

- 출결방법은 의협평점 온/오프라인 병행규정에 따라 온라인 이수시간의 기준으로 운영



| Notice |

2021년 10월 28일(목)~30일(토) 학술대회 기간 3일 동안 Room 5, 6의 강좌는 플랫폼 송출이 진행되지 않으나 저자의 동의 하에 재방송 기간에 시청이 가능해질 예정입니다.

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2021년 11월 22일(월) ~ 12월 21일(화)까지



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SICEM is delighted to inform you that Endocrine Quiz will be conducted during the meeting. Please see the following guidelines.

• **The exam writer:**

Sang-Wook Kim (Kangwon National University)

• **Rewards:**

Blinded and will be revealed after the congress.

• **Timings of Quizzes:**

The congress has total 10 breaks over 3 days. In each break time, quizzes will be released one by one.



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Good Luck!

Looking forward to many winners!

IF (Impact Factor):

- 2020 Impact Factor **4.010**

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SICEM2022

APRIL 7 (THU) - 9 (SAT), 2022

GRAND WALKERHILL HOTEL, SEOUL, KOREA



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Diabetes

Myung-Shik Lee

Yonsei University, Korea



Adrenal

Hironobu Sasano

*Department of Pathology, Tohoku
University School of Medicine, Japan*