

ISSCR / KSSCR **2019** INTERNATIONAL
SYMPOSIUM

Stem Cell Research:
SEOUL Present and Future
KOREA

Program Book



GRAND HILTON SEOUL HOTEL, KOREA
26-27 SEPTEMBER, 2019

Registration Desk

Please visit the Registration Desk on floor 4F of the Convention Center to register and collect your name badge and symposium kit. To ensure the smooth running of the symposium, please provide your registration number (e.g. R-000) at the Registration Desk. You can find your own registration number in the notification e-mail or at the mypage on the website. (<http://www.2019isscrksscr-symposia.org/>) Name badges must be worn during the entire symposium for admission to meeting rooms and the exhibition hall. If you lose your name badge, return to the Registration Desk to request a new one.

Registration Desk Hours of Operation

[For attendees]

Thursday, 26 September 07:30-17:00

Friday, 27 September 08:00-17:00

[For exhibitors]

Thursday, 26 September 09:30-17:00

Preview Room (Speaker's Ready Room)

Each speaker should submit their presentation slides to the Preview Room on floor 4F of the Convention Center. Make sure your presentation slides are submitted at least 2 hours BEFORE your presentation.

Preview Room Hours of Operation

Thursday, 26 September 08:00-18:00

Friday, 27 September 08:00-18:00

Speaker's Lounge

There is a room for speaker use on floor 2F of the Hotel, which is connected with floor 4F of the Convention Center by a bridge.

- Crane (2F Hotel)
- Available for speakers to take a rest and use free wi-fi.

Venue

Symposium Venue

Grand Hilton Seoul (5 Star Level)
353, Yeonhui-ro, Seodaemun-gu,
Seoul, Korea

Inquiries

- 1330 Travel Hotline: +82-2-1330
(available in Korean, English,
Japanese and Chinese)
- For more info: +82-2-2287-8400



Website

www.grandhiltonseoul.com

Airport Bus (to ICN)

- Bus Number: 6005
- Payment: cash only
- Bus Stop Name: Grand Hilton Seoul Hotel
- Fare: KRW 15,000 (one-way)
- Duration: approximately 1 hour and 40 mins

Grand Hilton Seoul Hotel $\xrightarrow{8 \text{ stops}}$ Incheon Airport Terminal 1 $\xrightarrow{1 \text{ stop}}$ Incheon Airport Terminal 2

Grand Hilton Seoul Hotel → Incheon National Airport					
04:52	07:22	10:22	13:22	16:22	19:37
05:22	08:07	11:07	14:07	17:07	20:27
05:27	08:52	11:52	14:52	17:57	
06:34	09:37	12:37	15:37	18:47	

Shuttle Bus (from Grand Hilton Seoul Hotel)

To Itaewon

From Hotel		From Itaewon	
09:00	17:00	09:30	17:30
11:00	19:00	11:30	19:30
13:00	21:00	13:30	21:30
15:00		15:30	

HOTEL – Hongje Subway Station #4 – NH Life Insurance EAST – Seoul Subway Station #4 – Namdaemun SC Bank – ITAEWON (McDonald's) – The Bank of Korea – Seoul Subway Station #3 – KG Tower – Hongje Subway Station #1(Kookmin Bank) – HOTEL

To Hongik University

From Hotel		From Hongik University	
09:30	15:30	09:40	15:40
10:30	16:30	10:40	16:40
11:30	17:30	11:40	17:40
12:30	18:30	12:40	18:40
13:30	19:30	13:40	19:40
14:30	20:30	14:40	20:40

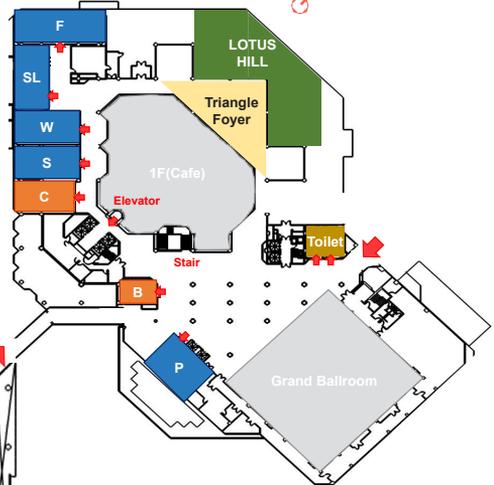
HOTEL – Hongik Univ. Subway Station #3 (Airport Railroad Express) – HOTEL

*Please note that departure time from Itaewon & Hongik Univ. are subject to change depending on traffic.

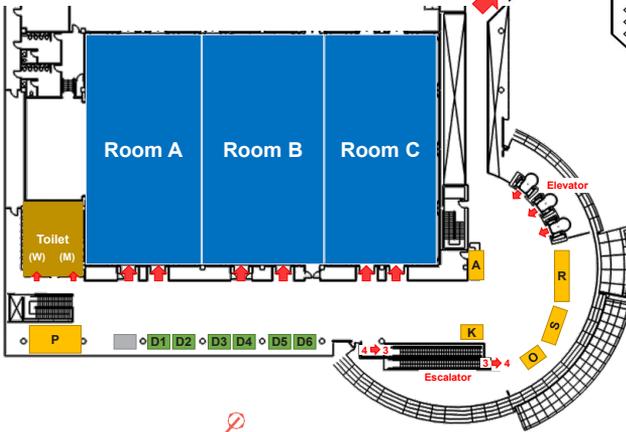
2F, Hotel

- F** Flamingo
- SL** Skylark
- W** White Heron
- S** Swan
- C** Crane (Speaker's Lounge)
- B** Board (ISSCR Secretariat)
- P** Peacock

- T** Toilet (Rest Room)



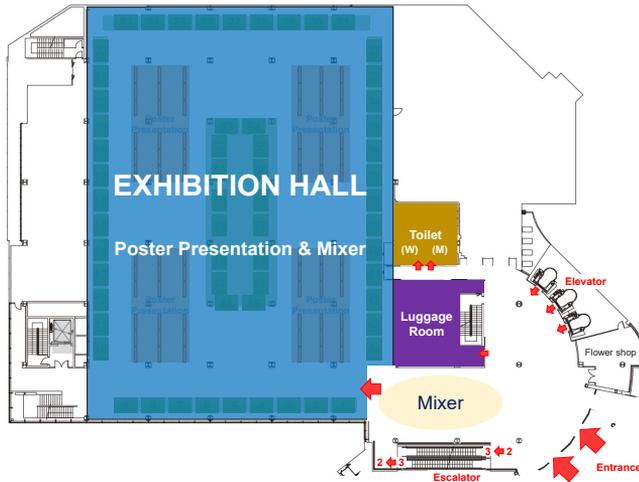
Connection Bridge
(4F, Convention – 2F, Hotel)



- D** Exhibition Booths (Diamond)
- R** Registration Desk (Pre-registration)
- K** KSSCR Secretariat
- O** Registration Desk (On-site Registration)
- S** Self Registration Desk (On-site)
- A** Symposium Kit (Abstract book)
- P** Preview Room (Speaker's Ready Room)
- T** Toilet (Rest Room)

4F, Convention Center

2F, Convention Center



Exhibition Hours

Thursday, 26 September	08:30-18:00
Friday, 27 September	08:30-18:00

Poster Presentation & Mixer

Thursday, 26 September	
- For odd numbers	18:30-19:30
- For even numbers	19:30-20:30

Luggage Room

The Luggage Room will be available for attendees located on floor 2F of the Convention Center, in front of the exhibition hall. Hotel guests can visit the front desk on floor 1F of the hotel to check any luggage. *We will not be held responsible for any lost or damaged items.

Luggage Room Hours of Operation

Thursday, 26 September	08:00-21:00
Friday, 27 September	08:00-19:00

Program at a Glance

Day 1 / Thursday, 26 September, 2019

Date	Day 1 / Thursday, 26 September, 2019				
Venue	4F, Convention Center			2F, Convention Center	
Time / Room	Room A	Room B	Room C	Exhibition Hall	
08:45-09:00	Opening Ceremony and Welcome Remarks			Poster Exhibition	
09:00-09:45	Keynote Lecture 1				
09:45-10:45	Special Session 1				
10:45-11:05	Coffee Break				
11:05-12:35	Special Session 2				
12:35-13:35	Luncheon Symposium 1	Luncheon Symposium 2	Luncheon Symposium 3		
13:35-15:25	Concurrent Session 1	Concurrent Session 2	Concurrent Session 3		
15:25-15:45	Coffee Break				
15:45-17:15	Special Session 3				
17:15-17:25	Break				
17:25-18:25	Special Session 4				
18:30-19:30					Posters I (odd numbers) and Mixer
19:30-20:30					Posters II (even numbers) and Mixer

Date	Day 2 / Friday, 27 September, 2019			
Venue	4F, Convention Center			2F, Convention Center
Time / Room	Room A	Room B	Room C	Exhibition Hall
08:45 - 09:00	Opening Remarks			Poster Exhibition
09:00 - 10:00	Special Session 5			
10:00 - 11:00	Special Session 6			
11:00 - 11:20	Coffee Break			
11:20 - 12:50	Special Session 7			
12:50 - 13:50	Luncheon Symposium 4	Luncheon Symposium 5	Luncheon Symposium 6	
13:50 - 15:15	Concurrent Session 4	Concurrent Session 5	Concurrent Session 6	
15:15 - 15:35	Coffee Break			
15:35 - 17:05	Special Session 8			
17:05 - 17:15	Break			
17:15 - 18:00	Keynote Lecture 2			
18:00 - 18:25	Poster Award and Closing Ceremony			

Day 1 / Thursday, 26 September, 2019

08:45-09:00 Opening Ceremony and Welcome Remarks:
Dong-Wook Kim, KSSCR President
Introduction to ISSCR Symposium:
Nancy Witty, ISSCR Chief Executive Officer

Keynote Lecture 1

Room A+B+C

09:00-09:45

Introduction: Deepak Srivastava

Recent Progress in iPSC Cell Research and Application

Shinya Yamanaka

(Gladstone Institutes, USA and Center for iPSC Cell Research & Application, Kyoto University, Japan)

Special Session 1 : Cell Fate Decisions

Room A+B+C

09:45-10:45

Chair: Christine Mummery

The Blastocyst and its Stem Cells: Understanding Early Cell Fate Decisions
and Modeling Early Development

Janet Rossant (Hospital for Sick Children, Canada)

SHP2 Mutations Induce Early Cell Fate Determination of Noonan Syndrome-
iPSCs to the Glial Lineage During Neural Development In Vitro

Yong-Mahn Han (Korea Advanced Institute of Science and Technology, Korea)

Special Session 2 : Cellular Reprogramming

Room A+B+C

11:05-12:35

Chair: Kevin Eggan

Unleashing the Developmental Potential of iPSCs

Hans Schöler (Max Planck Institute for Molecular Biomedicine, Germany)

Recent Advances in Direct Reprogramming and Gene Targeting as New
Therapies for Neurodegenerative Diseases

Jongpil Kim (Dongguk University, Korea)

Using Chemical Approaches to Generate Desired Functional Cells

Hongkui Deng (Peking University, China)

Luncheon Symposium 1: Molecular Devices

Room A

12:35-13:35

Overcoming Challenges of High Content Imaging and Analysis for 3D Cell
Culture

Minho Tak (Molecular Devices Korea, Korea)

Luncheon Symposium 2: JSK Biomed Inc. Room B

12:35-13:35

What's in Your Media Matters: Applications of Cellular Metabolic Profiling in Stem Cell Research

Yonseok Kam (Cell Analysis Group, Agilent Technologies, Inc., Korea)

Luncheon Symposium 3: Thermo Fisher Scientific Room C

12:35-13:35

Integrated Work Flow Solutions from Discovery to Translational Research

Uma Lakshmipathy (Thermo Fisher Scientific, USA)

Concurrent Session 1 : Organoids and Development Room A

13:35-15:25

Chair: Il-Hoan Oh

The Inflammatory Niche Shapes Lung Regeneration

Joo-Hyeon Lee (University of Cambridge, UK)

In Vitro Vascularization of Human Organoids and Tissue Fragments: Cell Cultures' Missing Link?

Paul Vulto (Mimetas B.V., The Netherlands)

Single Cell RNA-sequencing Analysis Reveals the Absence of Transient iPSCs During Pluripotency Factor-Mediated Direct Reprogramming

Janghwan Kim (Korea Research Institute of Bioscience and Biotechnology, Korea)

Comparative Analysis of Diverse Cell States Establishes an Epigenetic Basis for Inferring Regulatory Genes Governing Cell Identity

Enakshi Sinniah (University of Queensland, Australia)

Direct Induction of the Three Pre-implantation Blastocyst Cell Types from Fibroblast

Mohammad Jaber (The Hebrew University, Israel)

Chemical Derived Hepatic Progenitors, a Silver Lining of Regenerative Medicine of the Liver

Dongho Choi (Hanyang University, Korea)

Concurrent Session 2 : Stem Cells and Tissue Engineering Room B

13:35-15:25

Chair: Peter Zandstra

Biomimetic Hydrogels for Stem Cell and Reprogrammed Cell Therapy

Seung-Woo Cho (Yonsei University, Korea)

Bone Marrow-Derived Epithelial Cells and Hair Follicle Bulge Stem Cells Initiate and Promote Chronic Inflammation-Associated Cutaneous Neoplasms in Mice
Heuijoon Park (Columbia University, USA)

Printing Human Pancreatic Tissues for the Treatment of Diabetes
Jinah Jang (Postech, Korea)

Modelling of Retinitis Pigmentosa Caused by a Nonsense Mutation in the RP1 Gene Using Induced Pluripotent Stem Cells
Sang Yoon Moon (The University of Western Australia, Australia)

Generation of Epithelial Organoids from Human Tonsils of Waldeyer's Ring in a Chemically Defined Medium
Jongman Yoo (CHA University, Korea)

Vascularized Spheroids/Organoids Using Microfluidics
Noo Li Jeon (Seoul National University, Korea)

Concurrent Session 3 : Stem Cells and Regenerative Medicine in Asia

Room C

13:35-15:25 **Co-Chairs: Youngsook Son, Ssang-Goo Cho**

Present and Future Perspective of Myocardial Regeneration Therapy
Yoshiki Sawa (President, Japanese Society for Regenerative Medicine, Japan)

Neural Differentiation for Discovery and Therapy
Baoyang Hu (Innovation Academy for Stem Cell and Regeneration, Chinese Academy of Sciences, China)

Modeling Human Hepato-Biliary-Pancreatic Organogenesis from the Foregut-Midgut Boundary
Takanori Takebe
(Tokyo Medical and Dental University, Japan and Cincinnati Children's Hospital, USA)

National Stem Cell Resource Center (NSCRC) of China, and its Role in Delivering Stem Cell-based Therapies
Jie Hao (Innovation Academy for Stem Cell and Regeneration, Chinese Academy of Sciences, China)

Differential Regulation of Neural Stem Cell Differentiation by MEK Inhibitors
Hyunjung Kim (Chung-Ang University, Korea)

Deciphering Brain Somatic Mutations in Human Neurological Disorders
Jeong Ho Lee (Korea Advanced Institute of Science and Technology, Korea)

Special Session 3 : Tissue and Cancer Stem Cells **Room A+B+C**

15:45-17:15

Chair: Paul Frenette

Modelling of Human Neurodegenerative Diseases Using iPSCs and Genetically Modified Non-Human Primates

Hideyuki Okano (Keio University School of Medicine, Japan)

Pharmacogenomic Landscape of Patient-Derived Cancer Stem Cells Informs Precision Oncology Therapy

Do Hyun Nam (Sungkyunkwan University School of Medicine, Korea)

Stress-Mediated Hyperactivation of Sympathetic Nerves Drives Melanocyte Stem Cell Depletion

Ya-Chieh Hsu (Harvard University, USA)

Special Session 4 : Microenvironment and the Stem Cell Niche
Room A+B+C

17:25-18:25

Chair: Amy Wagers

Engineering Stem Cell Niche for Regeneration and Therapy

Il-Hoan Oh (The Catholic University of Korea, Korea)

A Novel Mechanism for Innate Immune Tolerance of Hematopoietic and Leukemic Stem Cells

Paul Frenette (Albert Einstein College of Medicine, USA)

18:30-19:30 Posters I (odd numbers) and Mixer
Exhibition Hall (2F, Convention Center)

19:30-20:30 Posters II (even numbers) and Mixer
Exhibition Hall (2F, Convention Center)

Day 2 / Friday, 27 September, 2019

08:45-09:00 Opening Remarks:
Dong-Youn Hwang, KSSCR Secretary General

Special Session 5 : Epigenetics and Aging of Stem Cells Room A+B+C

09:00-10:00 Chair: **Ya-Chieh Hsu**

Activating Muscle Stem Cell Function through Immediate Early Transcription Factors and Lipid Mediators

Amy Wagers (Harvard University, USA)

Restoring the Human Germline

Amander Clark (University of California, Los Angeles, USA)

Special Session 6 : New Technologies in Stem Cells Room A+B+C

10:00-11:00 Chair: **Hongkui Deng**

Haploid Human Embryonic Stem Cells: Derivation and Applications

Nissim Benvenisty (The Hebrew University, Israel)

Patterning Mesoderm and Blood Development from Human Pluripotent Stem Cells

Peter Zandstra (University of British Columbia, Canada)

Special Session 7 : Disease Modeling and Stem Cells Room A+B+C

11:20-12:50 Chair: **Malin Parmar**

Villages in a Dish: Scaling the Use of Human Cell Models to Detect Drug Genotype Interactions

Kevin Eggan (Harvard University, USA)

Harnessing the Potential of ES Cells & iPS Cells: New Opportunities for Therapeutics, Disease Modeling and Genome Editing

Dong-Wook Kim (Yonsei University, Korea)

Cardiovascular Diseases and Drugs: Where Are We with hiPSC Models?

Christine Mummery (Leiden University, The Netherlands)

Luncheon Symposium 4: Kangstem Biotech Co., Ltd. Room A

12:50-13:50

Development of First-in-Class and Best-in-Class Stem Cell Therapeutics for Immune Related Diseases

Seunghee Lee (Kangstem Biotech Co., Ltd., Korea)

Luncheon Symposium 5: Bio-Techne
Room B

12:50-13:50

Organoid Technology and Medicine

KyungJin Lee (ORGANOIDSCIENCES, Ltd., Korea)

Luncheon Symposium 6: Ajinomoto Co., Inc. + CHAYON Laboratories, Inc.
Room C

12:50-13:50

Use of Biomaterials to Regulate Neural Differentiation from Human iPSCs

Yoichi Kosodo (Korea Brain Research Institute, Korea)

Concurrent Session 4: Genome Editing in Stem Cells
Room A

13:50-15:15

Chair: Hans Schöler

Highly Efficient Genome Editing by CRISPR-Cpf1 Using CRISPR RNA with a U-rich 3'-Overhang

Yong-Sam Kim (Korea Research Institute of Bioscience and Biotechnology, Korea)

A Lin28a Loss-of-Function Associated with Early-Onset Parkinson's Disease

Mi-Yoon Chang (Hanyang University, Korea)

Enhanced Immunocompatibility of iPS Cells by CRISPR-Cas9 Targeted Disruption of HLA Genes

Huaigeng Xu (Center for iPS Cell Research and Application, Japan)

Genome-Wide Screening of Functional Deubiquitinating Enzymes Regulating Stemness-Related Proteins Using CRISPR/Cas9-Mediated Dubs Knockout Library

Suresh Ramakrishna (Hanyang University, Korea)

Efficient Detection and Purification of Human PSC-Derived Cell Populations Using RNA Switches

Shin-Il Kim (AceRNA Technologies Co., Japan)

Concurrent Session 5 : Application of Stem Cell Technologies
Room B

13:50-15:15

Chair: Janet Rossant

Real-Time Monitoring of Dynamic Cellular Properties of Ex Vivo Expanded or In Vivo Engrafted Mesenchymal Stem Cells

Dong-Myung Shin (University of Ulsan College of Medicine, Korea)

Human iPSC-Derived Astroglia Delay Disease Progression in YAC128
Huntington's Disease Mice

Hyun Jung Park (CHA University, Korea)

Promotion of Pancreatic Beta Cell Differentiation by Modulating Organ-Specific
Stromal Niche Signals

Tae-Hee Kim (The Hospital for Sick Children/University of Toronto, Canada)

Therapeutic Potential of Prodrug Solid Tumour Therapy by Non-Viral Modified
Mesenchymal Stem Cells in Mice Model and Companion Animal

Yoon Khei Ho (National University of Singapore, Singapore)

Therapy of Ischemic Diseases Using Human Induced Pluripotent Stem Cells

Jae Ho Kim (Pusan National University College of Medicine, Korea)

Concurrent Session 6 : Stem Cell Quality Control for Cell Therapy

Co-organized by GAIT/K-NIH/ISCBI

Room C

13:50-15:15

Co-chairs: **Jihwan Song and Glyn Stacey**

Usefulness of the Korean HLA-homozygous iPSC lines to Multiple Populations

Jihwan Song (CHA University and GAIT, Korea)

The Global Alliance for iPSC Therapies (GAiT): Quality Testing of Clinical
Grade Induced Pluripotent Stem Cells

Stephen Sullivan (The Global Alliances for iPSC Therapies (GAiT), UK)

Latest Accomplishments of National Center for Stem Cell and Regenerative
Medicine

Soo Kyung Koo (Korea NIH, Korea)

Suitability of Pluripotent Stem Cell Lines for Clinical Applications

Glyn Stacey (International Stem Cell Banking Initiative, UK)

Integrated iPSC Characterization Optimal for Cell Therapy Manufacturing

Uma Lakshmiopathy (Thermo Fisher Scientific, USA)

Cancer-related Mutations in Primed and Naive Human Pluripotent Stem Cells

Nissim Benvenisty (The Hebrew University, Israel)

Autologous iPS Cell Therapy for Macular Degeneration: From Bench-To-
Bedside

Kapil Bharti (NIH/National Eye Institute, USA)

Special Session 8 : Stem Cells in Translation **Room A+B+C**

15:35-17:05

Chair: Hideyuki Okano

Towards a Patient-Specific Treatment for Parkinson's Disease

Malin Parmar (Lund University, Sweden)

Trafficking of Endogenous Stem Cells and M1/M2 Polarization of Macrophage for Tissue Repair; A Story of Substance-P

Youngsook Son (Kyung Hee University, Korea)

Stem Cell Ethics and Policy: Converging Paths and New Synergies

Insoo Hyun (Case Western Reserve University, USA)

Keynote Lecture 2

Room A+B+C

17:15-18:00

Introduction: Christine Mummery

Cellular Reprogramming Approaches in Human Genetics and Regenerative Medicine

Deepak Srivastava (Gladstone Institutes, USA)

18:00-18:25

Poster Award and Closing Ceremony:

Eekhoon Jho, KSSCR Chair of the Scientific Program Committee

Closing Remarks: Youngsook Son, KSSCR Chair of the Board

Sponsor Information

DIAMOND Sponsors	
Homepage	Products
 http://www.bms.kr	Electroporator, NEPA 21, Droplet Digital PCR, QX200, Cell Counter, NucleoCounter
 http://sbiomedics.com/	Embryonic stem cell program - Spinal cord injury (Neural precursor cells) - Parkinson's disease (Midbrain dopaminergic precursors) - Retinal degeneration (Retinal pigment epithelial cells) FECSTM program - Critical limb ischemia (Autologous adipose-derived adult stem cells) - Skin diseases (Autologous fibroblasts, Secretome) FECSTM based product - KIT (Cell clustering plate) *FECSTM (Functionally enhanced cell spheroids) - Cell clustering technology
 https://www.thermofisher.com	Cell Therapy System(CTS™) - providing serum-free, xeno-free and animal origin-free formulations our GMP-grade CTS products have cell and gene therapy specific intended use statements, extensive safety testing and proactive regulatory documentation. Gibco® Stem Cell Research solutions – Stem Cell Culture, Differentiation, Characterization, Engineering, Resources, Disease Modeling, Cell Model Service, etc. we've harnessed these powerful innovations into a total system covering your stem cell research workflow. Gibco® FBS – Value FBS, Premium FBS, Specialty FBS. Through our unwavering commitment to quality, we continue to provide scientists with the consistent reliability, service, value, and innovation that have made Gibco products a global market leader for over 50 years.

GOLD Sponsors	
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Ajinomoto Co., Inc. https://www.ajittrade.com/stemfit/	The next generation stem cell media, StemFit Basic04 Scalable Transfection System, MaxCyte STx® (Provided by CHAYON) Cell Sorter, Sony SH800S (Provided by CHAYON)
Sartorius Korea Biotech Ltd. http://www.sartorius.co.kr	Bio Analysis System : Live Cell Imaging Analyzer Lab Products : Lab/Industrial Weighing, Lab Water System, Liquid Handling, Lab Filtration, Moisture Analyzer, Lab Purification Bioprocess Products : Bioreactor, UF/DF, Media, Filtration Products, Single-use products and equipment for the manufacture of biologics.
STEMCELL Technologies https://www.stemcell.com	Cell Culture Media and Supplements, Genome Editing and Molecular Tools, Cell Isolation Products
WoongBee MeDiTech http://www.woongbee.com	1. Bio-Techne : R&D Systems(Protein/Abs/ELISA) Novus(Abs) Tocril(Small molecules). GMP products 2. iBiochips : Smart Aliquoter (single cell isolation chip) 3. Organoid : Matrix. Cytokine. Micro Fluidic Chip.

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Homepage	Products
Ajinomoto Co., Inc. https://www.ajittrade.com/stemfit/	The next generation stem cell media, StemFit Basic04 Scalable Transfection System, MaxCyte STx® (Provided by CHAYON) Cell Sorter, Sony SH800S (Provided by CHAYON)
Bio-Techne http://www.bio-techne.com	GMP Cytokines & Ancillary reagents : R&D SYSTEMS ,TOCRIS, Protein Characterization & Quantitation : proteinsimples, Single Cell Western & RNA in-situ : ACD

Homepage	Products
JSK Biomed Inc. http://www.jskbiomedls.co.kr	Agilent Technologies(Seahorse) - XF Analyzer, Axion Biosystems - Maestro (Multiwell MEA system), Nanolive - 3D Cell Explorer
Kangstem Biotech Co., Ltd. http://www.kangstem.com/	Umbilical Cord Blood-derived Stem Cell Therapy, Umbilical Cord Blood-derived Stem Cell Conditioned Media, Stem Cell Culture Media
Molecular Devices https://www.moleculardevices.com/	ImageXpress® Pico Automated Cell Imaging System, ImageXpress® Micro Confocal High-Content Imaging System, MetaXpress® High-Content Image Acquisition and Analysis Software
Thermo Fisher Scientific https://www.thermofisher.com	Cell Therapy System(CTS™) - providing serum-free, xeno-free and animal origin-free formulations our GMP-grade CTS products have cell and gene therapy specific intended use statements, extensive safety testing and proactive regulatory documentation. Gibco® Stem Cell Research solutions – Stem Cell Culture, Differentiation, Characterization, Engineering, Resources, Disease Modeling, Cell Model Service, etc. we've harnessed these powerful innovations into a total system covering your stem cell research workflow. Gibco® FBS – Value FBS, Premium FBS, Specialty FBS. Through our unwavering commitment to quality, we continue to provide scientists with the consistent reliability, service, value, and innovation that have made Gibco products a global market leader for over 50 years.

EXHIBITION Sponsors (2 Booths)

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Corning Korea https://www.corning.com/kr/ko/products/life-sciences.html	Spheroid plate, Dissolvable Microcarriers, Serum
DREAMCELL http://dreamcell.co.kr	Primary cells and media, Stemcell Research and 3D culture, Fetal Bovine Serum
JSK Biomed Inc. http://www.jskbiomedls.co.kr	Agilent Technologies (Seahorse) - XF Analyzer, Axion Biosystems - Maestro (Multiwell MEA system), Nanolive - 3D Cell Explorer

EXHIBITION Sponsors (1 Booth)

Homepage	Products
Advanced Cell & Tissue Therapeutics Evaluation Research Center http://www.acter.re.kr	Regulatory science, Stem cell clinical study DB, Policy
BECKMANCOULTER http://www.beckman.com	Centrifugation, Flow Cytometry, Particle Characterization, Automation
Bioclone http://www.bioclone.co.kr	Antibody, Recombinant Protein, ELISA
Bio-Techne http://www.bio-techne.com	GMP Cytokines & Ancillary reagents : R&D SYSTEMS, TOCRIS, Protein Characterization & Quantitation : proteinsimples, Single Cell Western & RNA in-situ : ACD
BIS corp. http://bisvivi.com	Liquid Nitrogen Freezer, Vacuum Insulated Pipe, VIP, Accessories
bnkorea http://www.bnkorea.co.kr	FDA approved 'STEM-CELLBANKER', MultiLayer device 'CELLdisc™', Magnetic 3D Cell Culture System
Brink's Global Services Korea http://www.brinksglobal.com	Cold-chain, Logistics, Consultant

Sponsor Information

Homepage	Products
CEFO Co., Ltd. http://www.cefobio.com	MSC Growth Medium (Cat.# CEFOgro-MS), MSC Growth Medium (Xeno-free) (Cat.# CEFOgro-MS-XF), Storage Medium for cells/tissues in 4°C (Cat.# CEFO-vive)
Celltrion Pharm http://www.celltrionph.com/eng/index.asp	Biosimilar, Immunology, Oncology, Chemical medicine
Chemon Inc. http://www.chemon.co.kr	
CORESTEM Inc. http://www.corestem.com	
Cronytek http://www.cronytek.com	LUNA FL, CELENA S, CELENA X
DAON BioSciences Inc. http://www.daonbs.com	10x Genomics (Single cell technology), NanoCelect (Cell sorter & dispenser), Dovetail Genomics (Chicago and Hi-C technology)
DyneBio Inc. http://dynebio.co.kr	StemFit, 3-D HuChip, Helios
ENCell http://encellinc.com	Stem-cell therapeutics for the treatment of rare muscle diseases (Duchenne muscular dystrophy and Charcot-Marie-Tooth disease, Production of clinical-grade stem cell therapy, CDMO-based service
Eppendorf Korea http://www.eppendorf.kr	Liquid Handling, Cell Handling, Sample Handling Pipette&Dispenser, Cell culture consumables, Centrifuge&Tubes
icell Co.,Ltd. http://www.icellsci.com/	
itsbio http://www.itsbio.co.kr	Animal experiment equipment, Stem Cells/iPSC Products, Viral Expression Systems (AAV-, lenti-, adeno- and retro-viral systems)
IWOO Scientific Corporation http://www.iwoo.co.kr/	MEA systems for external signals of cells differentiated from stem cells, Tissue clearing system for neural network analysis in Tissue, Animal experiment equipment and hERG assay cells
Joongsoo.Co.Ltd. http://www.joongsoo.co.kr	3D Cell culture incubator, Cell counter
KOMABIOTECH http://www.komabiotech.co.kr/	1) TOCRIS small molecule (inhibitors) – GMP grade 2) Cytokine(multiplex) Assay Service 3) Flow cytometry (Guava Luminex)
KOREA INSTITUTE OF TOXICOLOGY http://kitox.re.kr	
Korea National Institute of Health http://kscnr.nih.go.kr	Support Stem Cell Research and their Clinical Translation, National Stem Cell Banking & Registration of Human Embryonic Stem Cell Lines, GMP Manufacturing & Supply of GMP Grade hiPSCs
Labex Inc. http://www.labex.kr	Fetal Bovine Serum (FBS), Removal reagents for Cell Pollution, Centrifuges
MaxWell Biosystems https://www.mxwbio.com	MaxOne - Single-well High-Resolution Microelectrode Array System MaxTwo - Multi-well High-Resolution Microelectrode Array System iPSC Functional Phenotype Characterization and Drug Screening
METTLER TOLEDO http://www.mt.com	Liquid handling: Single Pipettes, Multi Pipettes, Electronic pipettes, Liquid dispensers, High-throughput Pipetting, Pipette Tips (Plastic ware), Lab general instruments: Balances, pH Meter, Sensors, Buffer, UV/Vis Spectrophotometer, Analytical instruments: Titrators, KF Titrators, Density meters, Refractometers, etc.

Homepage	Products
Miltenyi Biotec Korea http://www.miltenyibiotec.com	GentleMACS tissue dissociation tools for best single cell preparation and light sheet microscope for whole organ imaging, Xeno-free and GMP grade stem cell media for translational research, CliniMACS Prodigy Adherent Cell Culture tools for closed system based stem cell manufacturing
MIMETAS Organ-on-a-Chip Company https://mimetas.com/	OrganoPlate® 2-lane & 3-lane, The OrganoPlate 2-lane or 3-lane features 96 or 40 independent culture cells, each supporting adjacent in-gel culture and 1 or 2 perfusion channels, that can contain perfused tubular tissues. OrganoPlate® Graft, The OrganoPlate® Graft is the first in vitro cell culture platform that allows vascularization of 3D tissues like spheroids, organoids, and tumors in vitro. Perfusion Rocker™ Mini, The Perfusion Rocker™ Mini provides a continuous medium flow in the OrganoPlate® with minimal settings required.
Molecular Devices https://www.moleculardevices.com/	ImageXpress® Pico Automated Cell Imaging System, ImageXpress® Micro Confocal High-Content Imaging System, MetaXpress® High-Content Image Acquisition and Analysis Software
Monobio http://www.monobio.co.kr	Chromogen : Chromo-CK (Cell Viability Assay Kit), Tomocube : HT Series (New 3D correlative imaging microscope), Vilber : Solo Series (Chemiluminescence Analyzer)
NISSAN CHEMICAL CORPORATION http://www.nissanchem.co.jp	
NKMax http://nkvue.com	
PAVMED http://www.pavmed.com	Mesenchymal Stem Cell SFM/XSFM (serum free/xeno free), Tumorsphere/NPC SFM/XSFM, NK cell / T cell CDM (chemical defined)
PEPROTECH KOREA http://peprotech.com	Cytokines, ELISA Kits, Small molecules
Pfizer Pharmaceuticals Korea Ltd. http://world.pfizer.com/	
Robot and Design http://rnd.re.kr	Automated Cell culturing system, CRF, Cell Harvester
Roche Diagnostics Korea http://www.roche-diagnostics.co.kr	<ol style="list-style-type: none"> 1. Metabolite analyzer, Cedex Bio 2. Mycoplasma detection kit, MycoTOOL 3. Tissue dissociation, Liberase
ROKIT HEALTHCARE http://rokithhealthcare.com	<ol style="list-style-type: none"> 1. HumaTein (primary cell-derived whole ECM) 2. INVIVO BIO 3D PRINTER 3. BIO INK MATERIAL
SeouLin Bioscience Co., Ltd. http://www.seoulin.co.kr	Cell Culture Media and Supplements, Genome Editing and Molecular Tools, Vial (or Container) for Cell therapy
STEMLAB http://www.stemlab.co.kr	iNSC - Induced Neural Stem Cell through Direct Reprogramming (Autologous Stem Cell Therapy for Spinal Cord Injury), iOPC - Induced Oligodendrocyte Progenitor Cell through Direct Reprogramming (Autologous Stem Cell Therapy for Multiple System Atrophy), ASC-H - Conditioned Media from Amniotic-fluid Stem Cell cultured in Hypoxia incubator
Takara Korea Biomedical Inc. https://www.takara.co.kr	The World First Monolayer iPSC/ESC Culture Medium, 'DEF-CS™ 500' High Performance MSC Xeno-Free Culture Medium High Efficiency Gene editing Knock-in/out products & service for iPSC/ESC

Sponsor Information

Homepage	Products
iThenticate provided by Turnitin http://www.turnitin.com/ko	iThenticate - Plagiarism Prevention & Research Assistance
Wuhan Healthgen Biotechnology Corp. http://www.oryzogen.net	Recombinant human serum albumin, OsrHSA Recombinant fibronectin, OsrFn Recombinant growth factors
XCell Therapeutics Inc http://xcelltherapeutics.com	Serum free Chemically Defined Medium (CellCor), Stem cell mass Production, Organoid / Exosome
Young In Frontier https://www.younginfrontier.com	- Cultureware (Corning_Plasticware, Flask, Dish, Multiwell plate, Microplate, Microcarrier, Cryo Vials etc, / Young In Frontier_Fetal Bovine Serum) - Stem Cell Culture System (TaKaRa Stem cell brand Cellartis_iPSC related cells, iPS/ES culture media, Stem cell differentiations system etc) - Lab Equipment (Thermo_Pipette&Tips, Centrifuge, Microplate Reader / Nikon_Imaging Equipment / BD_Clinical/Research Flow Cytometer etc)
Young in Labplus(Youngwha scientific) http://www.labplus.co.kr	Transfection Instrument, Live cell imaging Instrument, Plastic ware

Program Book Advertisement

Homepage	Products
Cell&Brain Co., Ltd http://www.cellebrain.com	
Cell To Bio http://www.cellto.co.kr	New Drug-based Moral-Buster, Bio-pharmaceuticals for Human, MOA based First-in-Class New Drug, A Game Changer for Superbugs, Bacteriophage & Endolysin World Leader
Cosmogenetech http://www.cosmogenetech.com/main.jsp	
GENOTECH http://www.genotech.co.kr	PCR Targeted Amplicon Sequencing Service, Oligonucleotide Synthesis, Genotyping kit
MR SOLUTION INC. http://mrsolution.co.kr/	Precondition of X-ray irradiation for a feeder cells, X-ray Cell Irradiator, 7 ~ 14 Gy/min, Single QUASTAR X-ray Emitter Patent #9818569
PAVMED http://www.pavmed.com	Mesenchymal Stem Cell SFM/XSFM (serum free/xeno free), Tumorsphere/NPC SFM/XSFM, NK cell / T cell CDM (chemical defined)
Pfizer Pharmaceuticals Korea Ltd. http://world.pfizer.com/	

Poster Presentation and Mixer

- For odd numbers: 18:30-19:30, Thursday, 26 September, 2019
- For even numbers: 19:30-20:30, Thursday, 26 September, 2019

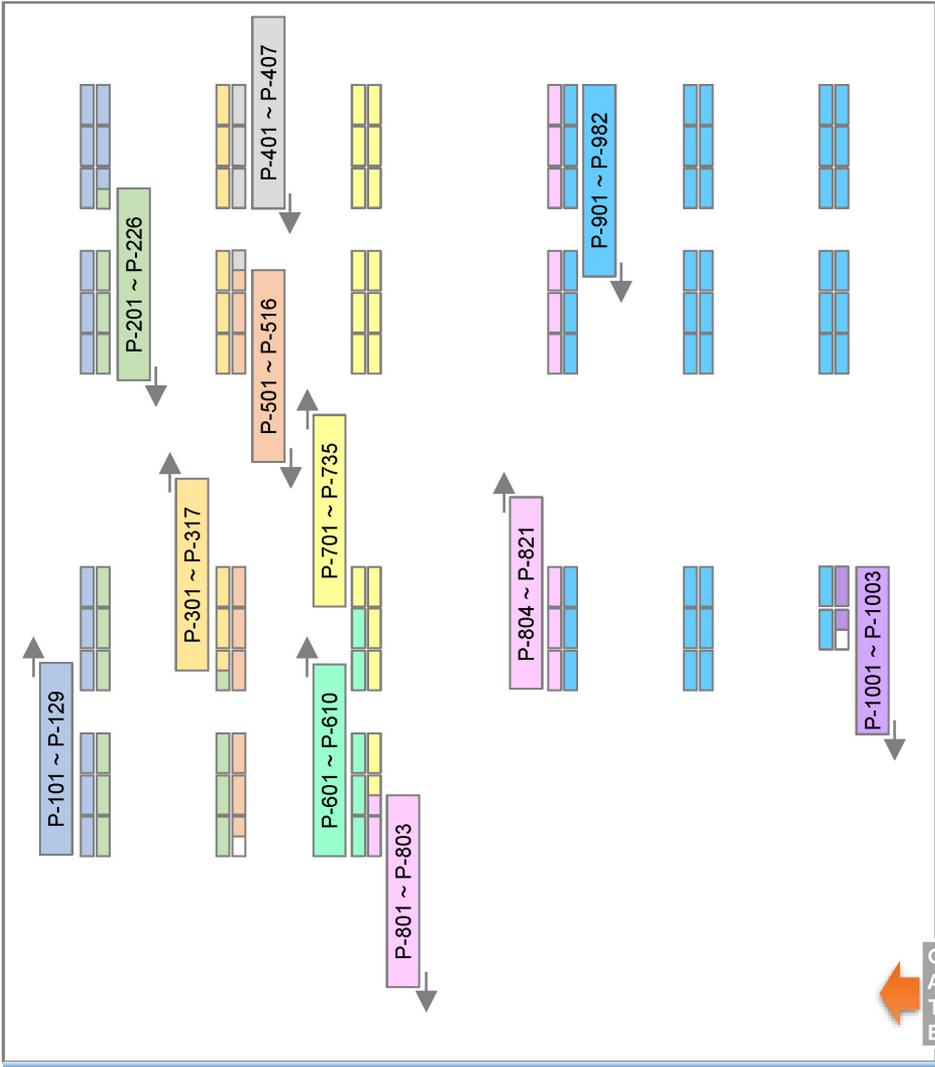
Each should be presented according to the allocated time, so please check your poster number. Presenters' exact places will be indicated by their names which will be posted on the poster boards with poster number. Posters will be reviewed and scored during the allocated presentation time. **Posters that score in the top 10% will receive a poster award during the Closing Ceremony on Friday, 27 September.**

All posters should be set up by 11:00 on Thursday, 26 September and removed between 14:00-17:00 on Friday, 27 September. Any materials left on the poster boards will be removed and discarded. The secretariat will not be responsible for anything left at the end of poster exhibition.

During the poster presentation, beverages and food will be offered to attendees. Join the mixer for networking and scientific discussions with hundreds of other stem cell researchers!

Poster Categories	Poster Number
1. Mechanisms of Pluripotency and Differentiation	P-101 ~ P-129
2. Reprogramming and Transdifferentiation	P-201 ~ P-226
3. Tissue Stem Cells and Niche	P-301 ~ P-317
4. Stem Cell Metabolism and Homeostasis	P-401 ~ P-407
5. Tissue Engineering and Organoids	P-501 ~ P-516
6. Stem Cells in Cancer and Aging	P-601 ~ P-610
7. Disease Modeling and Drug Screening	P-701 ~ P-735
8. Genome Editing and Stem Cell Technologies	P-801 ~ P-821
9. Stem Cell Applications and Regenerative Medicine	P-901 ~ P-982
10. Stem Cell Ethics & Policies	P-1001 ~ P-1003

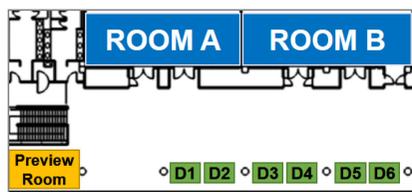
Poster Map



B-N	Name of Company	Country
D1, D2	Bio-Medical Science Co., Ltd.	KOREA
D3, D4	Sbiomedics	KOREA
D5, D6	Thermo Fisher Scientific	KOREA

B-N	Name of Company	Country
01	KOMABIOTECH	KOREA
02	bnkorea	KOREA
03	Young In Frontier	KOREA
04, 05	Ajinomoto Co., Inc. + CHAYON Laboratories, Inc.	JAPAN + KOREA
06, 07	DREAMCELL	KOREA
08	Roche Diagnostics Korea	KOREA
09	Joongsoo.Co.Ltd.	KOREA
10	METTLER TOLEDO	KOREA
11	CEFO Co., Ltd.	KOREA
12	PAVMED	KOREA
13	JSK Biomed Inc.	KOREA
14	Pfizer Pharmaceuticals Korea Ltd.	KOREA
15	NKMax	KOREA
16	BIS corp.	KOREA
17	Robot and Design	KOREA
18	iThenticate provided by Turnitin	KOREA
19	ROKIT HEALTHCARE	KOREA
20	KOREA INSTITUTE OF TOXICOLOGY	KOREA
21	Monobio	KOREA
22	Miltenyi Biotec Korea	KOREA
23	SeouLin Bioscience Co., Ltd.	KOREA
24	Chemon Inc.	KOREA
25, 26	Sartorius Korea Biotech Ltd.	KOREA
27	NISSAN CHEMICAL CORPORATION	KOREA
28	Labex Inc.	KOREA
29	BECKMANCOULTER	KOREA
30, 31	Stemcell Technology	CANADA
32	icell Co., Ltd.	KOREA
33	Wuhan Healthgen Biotechnology Corp.	CHINA
34	IWOO Scientific Corporation	KOREA
35	STEMLAB	KOREA
36	DAON BioSciences Inc.	KOREA
37	Bio-Techne	KOREA
38	XCell Therapeutics Inc	KOREA
39, 40	WoongBee MeDiTech	KOREA
41, 42	Coming Korea	KOREA
43	PEPROTECH KOREA	KOREA
44	Eppendorf Korea	KOREA
45	Takara Korea Biomedical Inc.	KOREA
46	Bioclone	KOREA
47	Brink's Global Services Korea	KOREA
48	Celltrion Pharm	KOREA
49	JSK Biomed Inc.	KOREA
50	Korea National Institute of Health	KOREA
51	Molecular Devices	KOREA
52	MIMETAS Organ-on-a-Chip Company	NETHERLANDS
53	Cronytek	KOREA
54	DyneBio Inc.	KOREA
55	MaxWell Biosystems	SWITZERLAND
56	CORESTEM Inc.	KOREA
57	ENCell	KOREA
58	Advanced Cell & Tissue Therapeutics Evaluation Research Center	KOREA
59	Itsbio	KOREA
60	Young in Labplus(Youngwha scientific)	KOREA

4F, Convention Center



Name:

Registration No.:

4F, Convention Center

D1-D2

Bio-Medical Science Co., Ltd.

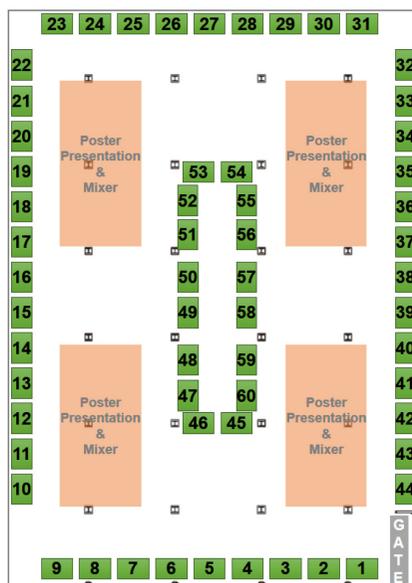
D3-D4

Sbiomedics

D5-D6

Thermo Fisher Scientific

2F, Convention Center



2F, Convention Center

1	2	3	4	5	6	7	8	9	10
KOMABIOTECH	bnkorea	Young In Frontier	Ajinomoto Co., Inc. + CHAYON Laboratories, Inc.	Ajinomoto Co., Inc. + CHAYON Laboratories, Inc.	DREAMCELL	DREAMCELL	Roche Diagnostics Korea	Joongsoo.Co.Ltd.	METTLER TOLEDO
11	12	13	14	15	16	17	18	19	20
CEFO Co., Ltd.	PAVMED	JSK Biomed Inc.	Pfizer Pharmaceuticals Korea Ltd.	NKMax	BIS corp.	Robot and Design	iThenticate provided by Turnitin	ROKIT HEALTHCARE	KOREA INSTITUTE OF TOXICOLOGY
21	22	23	24	25	26	27	28	29	30
Monobio	Miltenyi Biotec Korea	SeouLin Bioscience Co., Ltd.	Chemon Inc.	Sartorius Korea Biotech Ltd.	Sartorius Korea Biotech Ltd.	NISSAN CHEMICAL CORPORATION	Labex Inc.	BECKMANCOULTER	STEMCELL Technologies
31	32	33	34	35	36	37	38	39	40
STEMCELL Technologies	icell Co., Ltd.	Wuhan Healthgen Biotechnology Corp.	IWOO Scientific Corporation	STEMLAB	DAON BioSciences Inc.	Bio-Techne	XCell Therapeutics Inc	WoongBee MeDiTech	WoongBee MeDiTech
41	42	43	44	45	46	47	48	49	50
Coming Korea	Coming Korea	PEPROTECH KOREA	Eppendorf Korea	Takara Korea Biomedical Inc.	Bioclone	Brink's Global Services Korea	Celltrion Pharm	JSK Biomed Inc.	Korea National Institute of Health
51	52	53	54	55	56	57	58	59	60
Molecular Devices	MIMETAS Organ-on-a-Chip Company	Cronytek	DyneBio Inc.	MaxWell Biosystems	CORESTEM Inc.	ENCell	Advanced Cell & Tissue Therapeutics Evaluation Research Center	Itsbio	Young in Labplus (Youngwha scientific)

Lucky Draw Event

Win the Lucky Draw prize by visiting all of the exhibition booths!
 After you get a sticker from each exhibition booth, tear out page 23 and submit it to the Registration Desk by 17:15 on Friday, 27 September. The prizes will be given at the Closing Ceremony on Friday, 27 September.

Closing Ceremony

Friday, 27 September 18:00-18:25
 Room A+B+C, 4F Convention Center

Prizes



Powerbeats Pro Totally Wireless



Apple Magic Keyboard



Klug(Massage Pad Set)



Samsung Y3 Portable 1TB



Microsoft Sculpt Ergonomic Mouse



Freedy Wireless Charger Pad



Bomann Stand Steam Iron

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JSK BIOMED

KANG STEM BIOTECH

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ThermoFisher SCIENTIFIC
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EXHIBITION Sponsors (2 Booths)

CORNING

DREAMCELL

JSK BIOMED

EXHIBITION Sponsors (1 Booth)

ACTER	BECKMAN COULTER Life Sciences	BioCLONE 바이오클론(주)	biotechne	big	BN (주)비엔코리아 BN Korea Co., Ltd.
IBRINKS	CEFO CELL PROLIFERATION FOR OCEAN	CELLTRON PHARM CELL TRON PHARM	Chemcon	CORESTEM CELLS	cronyTek
DAON BIOSCIENCES	DYNE BIO 다인바이오(주)유지화학	ENCCell ENCCell	ependorf	icell	(주)이즈바이오 ITSBio
HEUNG-A BIOTECHNOLOGY	SOO	KOMABIOTECH biotechnology	Kit 안전성평가연구소	국립보건연구원 National Institute of Health	Labex
maxwell BIOSYSTEMS	METTLER TOLEDO	Milteny Biotec	MIMETAS the organ-on-a-chip company	MOLECULAR DEVICES	MONO
R O K I T	NKMAX	PAVMED	PEPROTECH OUR SUPPORT. YOUR DISCOVERY	Pfizer 한국화이자제약(주)	Robots and Design
Roche	Nissan Chemical Corporation	SeouLin Bioscience	STEMLAB	Qontech Talkara cellartis	iThenticate Professional Plagiarism Prevention
Healthgen Biotechnology Corp.	XCELL MEMBRANES	YOUNG IN Frontier	YOUNG IN Labplus		