

■ 일 시: 2024년 6월 28일(금) (Jun. 28(Fri) 2024)

■ 진 행: 온라인 심포지엄

<http://cgti.e-symposium.co.kr/>



- 등록자 대상으로 온라인 심포지엄 참가 방법을 안내 드릴 예정입니다.

- 로그인(ID/PW) 정보는 등록자분들의 이메일로 부여 드릴 예정입니다.

등록안내 (Registration)

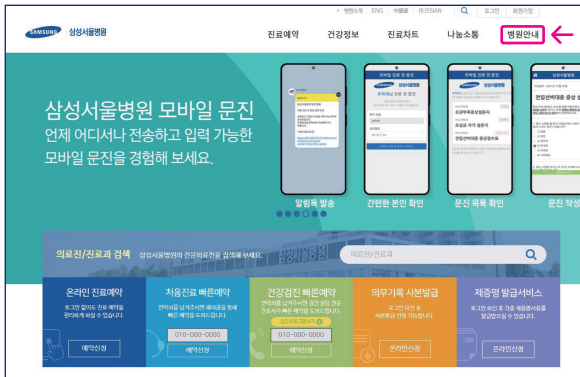
■ 마감일 (Deadline for Pre-Registration)

2024년 6월 27일(목) (Jun. 27(Thu) 2024)

■ 등록방법: 온라인 사전등록 (Online Pre-Registration)

<http://cgti.e-symposium.co.kr/A/>

<http://www.samsunghospital.com/>



■ 등록비 (Registration Fee)

등록비 (Registration Fee)는 무료입니다.

- 심포지엄 사전등록 페이지의 사전등록 접수 메뉴를 클릭 하신 후 사전등록 작성 요령에 따라 신청 진행해 주시기 바랍니다.

SAMSUNG MEDICAL CENTER
Cell and Gene Therapy Institute

■ 참고 사항

■ 참석 확인증 발급이 필요하신 경우 신청을 부탁드립니다.

■ 문의처 (Contact Info)

심포지엄 사무국 (담당자: 김민정 수석연구원, 이경희 연구원)

Symposium Office (Min Jeong Kim, Kyunghee Lee)

Tel: +82-2-2148-9958, +82-2-2008-4056

E-mail: cgti.smc@gmail.com

삼성서울병원 세포·유전자치료연구소

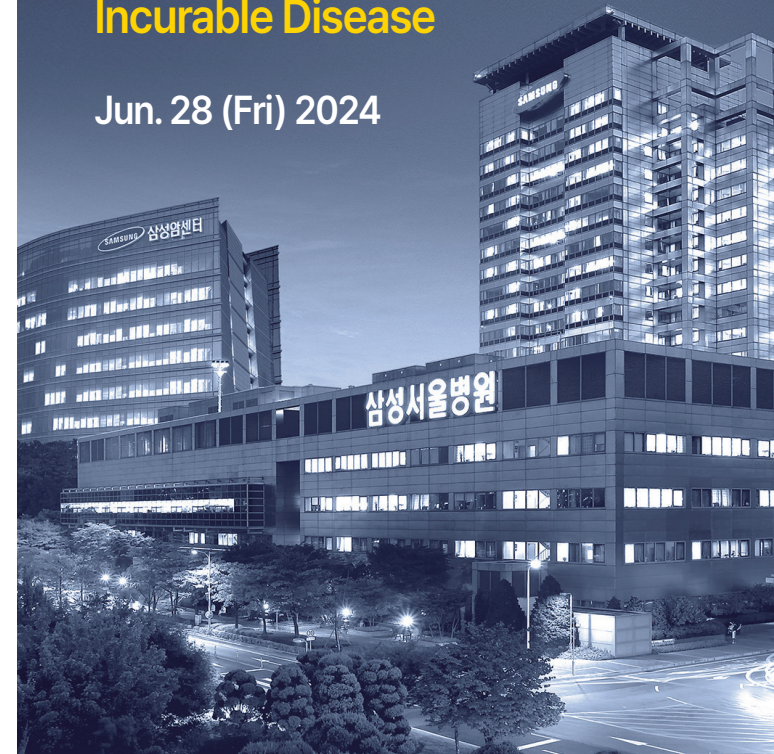
| 제11회 국제 심포지엄 |

연구중심병원 육성 R&D 사업

The 11th International Symposium of Cell and Gene Therapy Institute

Hope For Patients with Incurable Disease

Jun. 28 (Fri) 2024



June greets us with green trees, blooming flowers, and beautiful sunshine. As we overcome challenges and move forward with strength, the Cell and Gene Therapy Institute at Samsung Medical Center is pleased to invite you to the 11th International Symposium, which will be held online in Friday, June 28th. This remarkable event marks a significant milestone as we celebrate a decade of progress in the field of stem cell, regenerative medicine, and cell and gene therapy.

Our institute has been at the forefront of pioneering research, aiming to enhance the lives of patients. We have consistently pursued advancements in scientific knowledge and technological innovation, achieving remarkable progress that has brought us closer to the realization of personalized medicine. On behalf of the Cell and Gene Therapy Institute at Samsung Medical Center, we would like to express our sincere gratitude to all the participants, speakers, and sponsors who have made this symposium possible. Your unwavering support and dedication have been instrumental in our journey towards scientific excellence and medical innovation.

The symposium this year will provide you with many opportunities to meet distinguished experts not only in the field of stem cell & regenerative medicine but also in the field of cell and gene therapy, while covering diverse aspects of research, from basic research, translational research to clinical applications.

In particular, this year, we invited Professor Karen Young of University of Miami, Dr Sung-Yun Pai of NIH and Professor Matthew Porteus of Stanford University as keynote speakers. In addition, we prepared a symposium with excellent speakers including Korean scholars. Esteemed experts and leading researchers from around the world will gather to share their insights, latest findings, and innovative approaches, fostering collaboration and igniting new ideas for future breakthroughs.

We hope you have valuable experience during our symposium to share and discuss the latest developments in the field of stem cell, regenerative medicine, and cell and gene therapy.

We will be grateful for your participation and warm support upon our symposium.

Sincerely,

Yun Sil Chang, M.D., Ph.D.

Director of Cell and Gene Therapy Institute (CGTI)
Samsung Medical Center
Seoul, South Korea



08:55-09:00 **Registration**

09:00-09:05 **Opening Remarks**

Yun Sil Chang, Director of Cell and Gene Therapy Institute, Samsung Medical Center

09:05-09:10 **Welcome Address**

Seung Woo park, President of Samsung Medical Center

09:10-09:15 **Congratulatory Address**

Eunyoung Jung, Director General of Bureau of Health Industry, Ministry of Health and Welfare

09:15-09:20 **New Frontier for K-Geno Therapy : G-CROWN Platform**

Jeehun Lee, Samsung Medical Center, Sungkyunkwan University School of Medicine

Session I Translational & Clinical Research of Cell - Gene therapy for Incurable Diseases

Chair : Il-Hoan Oh, The Catholic University of Korea

Yun Sil Chang,

Director of Cell and Gene Therapy Institute, Samsung Medical Center

09:20-09:35 **Yun Sil Chang**, Director of Cell and Gene Therapy Institute, Samsung Medical Center
MSC-derived extracellular vesicle therapy for neonatal intractable disorders

09:35-09:40 Discussion

09:40-10:05 **Karen Young**, University of Miami, USA

Extracellular Vesicles: Friend or Foe In Neonatal Respiratory Diseases

10:05-10:10 Discussion

10:10-10:35 **Sung-Yun Pai**, NIH, USA

Progress and hurdles in gene therapy for inborn errors of immunity

10:35-10:40 Discussion

10:40-11:05 **Matthew Porteus**, Stanford University, USA

TBD

11:05-11:10 Discussion

11:10-11:25 **Byung-Ok Choi**, Samsung Medical Center, Sungkyunkwan University School of Medicine

MORC2 mutant mediated neuropathy can be rescued through AAV-based gene therapy

11:25-11:30 Discussion

11:30-11:40 **Break**

Session II Recent Advances and Future Perspectives I

Chair : Joon Ho Wang,

Samsung Medical Center, Sungkyunkwan University School of Medicine

Sang Jin Kim,

Samsung Medical Center, Sungkyunkwan University School of Medicine

11:40-12:00 **Tea Soon Park**, National Eye Institute (NEI), USA

Outer Retinal Disease Modeling and Regenerative Therapy using 3D-Bioprint technology and iPSC-Derived Cells

12:00-12:05 Discussion

12:05-12:25 **Chang Hun Lee**, Columbia University, USA

Orchestrating Timely Interplay between Endogenous Stem Cells and Macrophages for Tendon Regeneration

12:25-12:30 Discussion

12:30-13:20 **Lunch**

Session III Perspective: Advanced Technology of Cell - Gene therapy to Clinical Progress

Chair : Jihwan Song, CHA University

Ji Hyeon Ju, Seoul St. Mary's Hospital, The Catholic University of Korea

13:20-13:40 **Dong-Wook Kim**, Yonsei University College of Medicine

hESC-derived dopaminergic neurons for treatment of Parkinson's disease: basic research to clinical application

13:40-13:55 **Jeehun Lee**, Samsung Medical Center, Sungkyunkwan University School of Medicine

Treatment update for Duchenne muscular dystrophy

13:55-14:10 **Sang Jin Kim**, Samsung Medical Center, Sungkyunkwan University School of Medicine

Retinal gene therapy: Progress and Prospects

14:10-14:25 Discussion

Session IV Advanced disease modeling using Gene-modified cell therapy

Chair : Yong-Sam Kim, GenKOre

Jeehun Lee, Samsung Medical Center, Sungkyunkwan University School of Medicine

14:25-14:40 **Hyongbum Henry Kim**, Yonsei University College of Medicine

Saturation resistance profiling of EGFR variants against tyrosine kinase inhibitors using prime editing

14:40-14:55 **Hyukjin Lee**, Ewha Womans University

Development of immune modulating ionizable lipids and their lipid nanoparticle formulation for mRNA vaccines and therapeutics

14:55-15:10 **Hui Kwon Kim**, Sungkyunkwan University

Prediction of efficiencies for diverse prime editing systems in multiple cell types

15:10-15:25 Discussion

15:25-15:35 **Break**

Session V Recent Advances and Future Perspectives II

Chair : Jae Ho Kim, Pusan National University School of Medicine

Keon Hee Yoo,

Samsung Medical Center, Sungkyunkwan University School of Medicine

15:35-15:50 **Tae-Don Kim**, Korea Research Institute of Bioscience and Biotechnology

Platform development for anticancer CAR-NK gene therapy

15:50-16:05 **Dong-Myung Shin**, University of Ulsan College of Medicine

The Role of Glutathione Dynamics in Mesenchymal Stem Cells and Its Significance in the Treatment of Bladder Voiding Disorders

16:05-16:20 **Jinah Jang**, Pohang University of Science and Technology

Bioprinting Technology for Advanced Tissue Therapeutics

16:20-16:35 Discussion

Session VI Special Lecture on Policy Act

Chair : Inho Jo, Korean Fund for Regenerative Medicine, Korea

Yun Sil Chang,

Director of Cell and Gene Therapy Institute, Samsung Medical Center

16:35-16:55 **So Ra Park**, Regenerative Medicine Acceleration Foundation (RMAF)

Effects of ARM Act Revision on the RM Ecosystem of Korea

16:55-17:15 **Jounghee Baek**, Ministry of Food and Drug Safety

Regulatory Updates for Advanced Biological Products

17:15-17:25 Discussion

17:25- **Adjourn**