

# The 1<sup>st</sup> International Cell Therapy Conference

[ Current Trends of Cell Therapy ]

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- 주 최 : 보건복지부 지정 혁신형 세포치료 연구중심병원 사업단

## 초대의 글

### 안녕하십니까

혁신형 세포치료 연구중심병원 사업단에서는 세포치료에 대한 전반적인 이해를 돕고 산·학·연의 네트워크의 필요성을 공유하기 위한 계기를 마련하고자 “세포치료 연구의 최근 동향” 라는 주제로 세포치료에 관한 국제학술대회를 개최하고자 합니다.

세포치료법(cell therapy)은 약물이나 수술적 방법으로 문제가 되는 신체의 일부를 약화시키거나 제거하는 것이 아닌 질병을 근본적으로 치료하면서도 몸을 원래 상태로 되돌릴 수 있는 완전한 개념의 치료의학으로, 21세기에 들어서 모든 의학과 의료 분야를 이끌어 갈 것이라 각광을 받고 있습니다.

우리 사업단은 세포치료법 개발을 위하여 골/연골 손상치료를 위한 세포치료제 개발, 줄기/전구세포를 이용한 심혈관 재생 치료법 개발, 항암 면역세포 병용 치료법 개발 및 체도세포 이식을 통한 당뇨병 치료 개술개발 의 4개 테마로 연구를 진행하고 있습니다.

이번 국제학술대회는 Hematopoietic Stem Cells, Application of Stem Cells, Cancer Immune Cell Therapy, Cell Therapy for Diabetes 그리고 Regenerative Medicine (Chondrocyte Therapy) 의 주제아래 세계적인 석학들을 초청하였습니다.

따라서, 이번 국제학술대회를 통해 세포치료에 대한 최신의 흐름과 세계의 선도기술을 접할 수 있는 자리가 될 것을 확신하며, 세포치료 연구에 관심을 갖고 계신 다양한 분야의 여러 분들의 적극적인 참여와 토론으로 활발한 지식교류와 풍성한 학술적 성과를 거두는 계기가 되기를 바랍니다.

사 업 단 장 박영배

## 일 정 표

08:30 ~ 08:50	Registration	3F
08:50 ~ 09:00	Opening Welcome Address	Convention Hall, 3F Young-Bae Park (Chairman of Innovative Research Institute for Cell Therapy, Seoul National University Hospital, Korea)

Morning Session		
	Plenary Lectures	Convention Hall, 3F Chair : Dr. Dae Seog Heo
09:00 ~ 09:40	Oxygen, ROS and Stem Cells	Toshio Suda (Department of Cell Differentiation Keio University School of Medicine, Tokyo, Japan)
09:40 ~ 10:20	A new paradigm for cancer vaccines	Timothy M. Clay (Duke university, USA)
10:20 ~ 10:40	Coffee Break	
10:40 ~ 11:20	Ferritin as a reporter gene for MRI	Chair : Dr. Toshio Suda Michal Neeman (Department of Biological Regulation, Weizmann Institute, Israel)
11:20 ~ 12:00	Embryonic stem cell cardiopoiesis for safe heart repair	Andre Terzic (Mayo Clinic Rochester, MN, USA)
12:00 ~ 13:00	Lunch	

Afternoon Session		
	Hematopoietic Stem Cells	Convention Hall, Room A, 3F Chair : Dr. Andre Terzic
13:00 ~ 13:35	Galectin-3 induces quiescence of hematopoietic stem cells in the bone marrow niche	Nobuyuki Takakura (Department of Signal Transduction Research Institute for Microbial Diseases, Osaka University, Japan)
13:35 ~ 14:10	Sox17: Unique transcription factor for fetal and neonatal HSCs	Injune Kim (Life Sciences Institute, Ann Arbor, MI , USA)
14:10 ~ 14:45	Role of novel hemangioblast population for cardiovascular repair	Young-sup Yoon (Division of Cardiovascular Research St. Elizabeth's Medical Center Tufts University School of Medicine Boston, MA, USA)
14:45 ~ 15:20	Direct and indirect effects of endothelial cells from hES cells transplanted hindlimb ischemic model	Hyung Min Jung (College of Medicine, Pochon Cha University, Korea)
15:20 ~ 15:40	Coffee Break	
	Application of Stem Cells	Convention Hall, Room A, 3F Chair : Dr. Hyo-Soo Kim
15:40 ~ 16:15	Molecular regulation of cardiac side population cells	Rongliu Liao (Cardiac Muscle Research Laboratory, Brigham and Women's Hospital, Harvard Medical School, Boston, USA)
16:15 ~ 16:50	Cardiovascular cell therapy : Balancing biology and therapeutic potential	Jalees Rehman (Indiana University, School of medicine, Indianapolis, IN, USA)
16:50 ~ 17:25	Cardiogenic induction of human mesenchymal stem cells for optimized therapy of myocardial infarction	Andre Terzic (Mayo Clinic Rochester, MN, USA)
17:25 ~ 18:00	Sustained humoral effects following progenitor cell transplantation into the ischemic heart	Hyun-Jai Cho (College of medicine, Seoul National University, Korea)

	Cancer Immune cell therapy I	Convention Hall, RoomB, 3F Chair : Dr. Seung Yong Seong
13:00 ~ 13:35	Adoptive immunotherapy for EBV-associated malignancies	Stephen Gottschalk (Baylor College of medicine, USA)
13:35 ~ 14:10	Immune regulation by human dendritic cell subsets	Norimitsu Kadowaki (Department of Hematology and Oncology Kyoto University, Japan)
14:10 ~ 14:45	Preventive and therapeutic vaccination against prostate cancer	Jun Chang (Pharmaceutical Science, Ewha Womans University, Korea)
14:45 ~ 15:20	A step toward tumor immunotherapy using treg and NK cells	Kyungmi Lee (College of medicine Korea University, Korea)
15:20 ~ 15:40	Coffee Break	
	Cancer Immune cell therapy II	Convention Hall, RoomB, 3F Chair : Dr. Timothy M. Clay
15:40 ~ 16:15	Dendritic cell therapies for cancer	Timothy M. Clay (Duke university, USA)
16:15 ~ 16:50	Polarized cancer vaccines: getting the right T cells into tumors	Pawel Kalinski (University of Pittsburgh, USA)
16:50 ~ 17:25	Chemoimmunotherapies and B cell based immunotherapies	Chang-Yuil Kang (College of Pharmacy, Seoul National University, Korea)
17:25 ~ 18:00	AKT-mediated immune resistance of tumor cells against an anti-tumor immunity induced by cancer vaccines	Taewoo Kim (The medical Science Research Center Korea University, Korea University Ansan Hospital, Korea)

	Cell therapy for Diabetes	Convention Hall, RoomC, 3F Chair : Dr. Kyoung-Soo Park
13:00 ~ 13:35	Islet transplantation and beta cell regeneration	Hirofumi Noguchi (Baylor Research Institute in Dallas, USA)
13:35 ~ 14:10	Instant blood mediated inflammatory reaction	Bo Nilsson (Department of clinical immunology, Uppsala University, Sweden)
14:10 ~ 14:45	MRI analysis of regulatory pathways in angiogenesis	Michal Neeman (Department of Biological Regulation, Weizmann Institute, Israel)
14:45 ~ 15:20	Strategy for successful islet engraftment	Jae Hyeon Kim (Innovative Research Institute for Cell Therapy, Seoul Metropolitan Boramae Hospital, Korea)
15:20 ~ 15:40	Coffee Break	
	Regenerative Medicine (Chondrocyte therapy)	Convention Hall, RoomC, 3F Chair : Dr. Myung Chul Lee
15:40 ~ 16:15	Alternative cells for cartilage repair	Youngsook Son (College of Life Science and Graduate School of Biotechnology, Musculoskeletal Bioorgan Center, Kyunghee University, Korea)
16:15 ~ 16:50	Synovial stem cell therapy for joint disorders	Takeshi Muneta (Section of Orthopedic Surgery, Graduate School Tokyo Medical and Dental University, Japan)
16:50 ~ 17:25	Application of periosteum progenitor cell to enhance Tendon-Bone healing in ACL reconstruction	Chih-Hwa Chen (Department of Orthopaedic Surgery, Chang Gung Memorial Hospital, Taiwan)
17:25 ~ 18:00	Development of bioartificial ligament and differentiation of human mesenchymal stem cell into ligement-like cell	Jeong Keuk Park (College of Chemical and Biochemical Engineering, Dongguk University, Korea)