

**Japan Society for the promotion of Science  
Bilateral Programs; US-Japan Joint Seminars  
Kyushu University Centenary Seminars  
“Trend of gene & cell therapy  
as translational research in USA and  
JAPAN”**

**Date**

**July 14, 2011**

**Venue**

**Centennial Hall**

**Kyushu University School of Medicine ,**

**3-1-1, Maidashi, Higashi-ku, Fukuoka 812-8582, Fukuoka, Japan**

**Supported by**

**Japan Society of Gene Therapy**

**Medical Institute of Bioregulation, Kyushu University  
Joint Usage / Research Center for the Multi-stratified Host Defense  
System, authorized by Ministry of Education, Culture, Sports, Science  
and Technology, Japan**

**Kyushu University Centenary Event**

# PROGRAM

July 14 (Thu.)

## Session I. Basic Science

10:00 ~ 12:40

(Chair: Takashi Shimada & Fumio Endo)

- 1 10:00~10:20      **Hiroyuki Nakai**  
*Department of Molecular & Medical Genetics,  
Oregon Health & Science University School of Medicine*  
The mechanisms and applications of diverse phenotypes of capsid-engineered adeno-associated virus (AAV) vectors
- 2 10:20~10:40      **Masato Yamamoto**  
*Division of Basic and Translational Research, Department of Surgery,  
University of Minnesota*  
Translational research: Bridging between bench and bed
- 3 10:40~11:00      **Noriyuki Kasahara**  
*Dept. of Medicine and Dept. of Molecular & Medical Pharmacology,  
University of California, Los Angeles (UCLA)*  
Current strategies for tumor-targeted vector replication and gene delivery: Teaching an old virus some new tricks
- 4 11:00~11:20      **Richard Jude Samulski**  
*Gene Therapy Center, School of Medicine,  
Universities of North Carolina*  
Novel vectors, regulated promoters & optimized genes, a winning combination
- 5 11:20~11:40      **Kohnosuke Mitani**  
*Gene Therapy Division, Research Center for Genomic Medicine,  
Saitama Medical University*  
Chromosomal manipulation and gene repair therapy in human pluripotent stem cells by using viral vectors
- 6 11:40~12:00      **Thierry VandenDriessche**  
*Division of Gene Therapy & Regenerative Medicine,  
Free University of Brussels.  
Molecular & Cellular Medicine,  
University of Leuven*  
New technologies for non-viral gene therapy based on transposons
- 7 12:00~12:20      **Hiromitsu Nakauchi**

*Division of Stem Cell Therapy,  
Center for Stem Cell Biology and Regeneration Medicine,  
Institute of Medical Science, University of Tokyo*

Generation of rat pancreas in mouse: Toward the next generation of regenerative medicine

8 12:20~12:40 **Inder M. Verma**  
*Laboratory of Genetics,  
The Salk Institute*  
From gene to cell therapy: Old and new ideas

**Lunch** 12:40 ~ 13:40

**Session II. Translational Research I** 13:40 ~ 15:40  
(Chair: Shigetaka Asano & Kenzaburo Tani)

9 13:40~14:00 **Hiromi Kumon**  
*Department of Urology,  
Okayama University Graduate School of Medicine*  
In situ REIC/Dkk-3 gene therapy creating a new generation of cancer vaccine

10 14:00~14:20 **Tomoki Todo**  
*Division of Innovative Cancer Therapy,  
The Advanced Clinical Research Center,  
The Institute of Medical Science, The University of Tokyo*  
A Clinical development of a third-generation oncolytic HSV-1 (G47Δ) for recurrent glioblastoma

11 14:20~14:40 **Toshiyoshi Fujiwara**  
*Department of Gastroenterological Surgery,  
Okayama University Graduate School of Medicine*  
Telomerase-specific oncolytic virotherapy for human cancer

12 14:40~15:00 **Yuji Heike**  
*National Cancer Center Hospital  
Hematology and Stem Cell Transplantation Division*  
Phase-I trial of T cell-depleted haplo-identical stem cell transplantation (Haplo-SCT) combined with HSV-TK gene modified T cell add-back

13 15:00~15:20      **Hiroshi Shiku**  
*Dept. of Cancer Vaccine and Immuno-Gene Therapy,  
Mie University Graduate School of Medicine*  
TCR gene-modified T cell therapy

14 15:20~15:40      **Malcolm K. Brenner**  
*Dept. of Pediatrics and of Medicine Section of Hematology-Oncology,  
Baylor College of Medicine  
Director of Center for Cell and Gene Therapy,  
Texas Children's Cancer Center, The Methodist Hospital*  
Developing "Instant" cell and gene therapies

**Coffee Break**      15:40~16:10

**Session III. Translational Research II**      **16:10 ~ 18:30**  
(Chair: Yoshikatsu Eto & Kei-ya Ozawa)

15 16:10~16:30      **Ryuichi Morishita**  
*Department of Clinical Gene Therapy,  
Osaka University Medical School*  
Development of collatogene (HGF gene therapy drug) to treat critical limb ischemia

16 16:30~16:50      **Yoshikazu Yonemitsu**  
*R&D Laboratory for Innovative Biotherapeutics,  
Graduate School of Pharmaceutical Sciences, Kyushu University*  
Phase I/IIa, open-label, dose escalation clinical study using DVC1-0101  
(F-gene-deleted non-transmissible recombinant Sendai virus vector  
expressing human FGF-2) to treat peripheral arterial disease

17 16:50~17:10      **Toya Ohashi**  
*Dept. of Pediatrics and of Gene Therapy, Institute of DNA Medicine,  
The Jikei University School of Medicine*  
Current status of therapeutic approach for lysosomal storage diseases

18 17:10~17:30      **Toshio Kitamura**  
*Division of Cellular Therapy and of Stem Cell Signaling,  
The Institute of Medical Science, The University of Tokyo*  
Lessons from mouse models for myelodysplastic syndromes/overt leukemia  
and chronic myelogenous leukemia in blast crisis: Insertional mutagenesis

induced Evi-1 expression but not Hes1 expression

19 17:30~17:50

**Masafumi Onodera**

*Department of Human Genetics,*

*National Center for Child Health and Development*

Leukemogenesis induced by retroviral integration may require “second hit” mutations of additional genes

20 17:50~18:10

**Makoto Otsu**

*Division of Stem Cell Therapy,*

*Center for Stem Cell Biology & Regenerative Medicine,*

*The Institute of Medical Science, The University of Tokyo*

Lessons from Japanese clinical trial of stem cell gene therapy for ADA-deficiency

21 18:10~18:30

**Elizabeth M. Kang**

*National Institute of Allergy and Infectious Diseases,*

*National Institutes of Health*

Transplantation for chronic granulomatous disease

**Dinner** 19:00~