

THE EIGHTH ANNUAL MEETING

2002

**JAPAN SOCIETY OF
GENE THERAPY**

PROGRAM AND ABSTRACTS

Date

July 18-20, 2002

Venue

Hitotsubashi Memorial Hall

2-1-2, Hitotsubashi, Chiyoda-ku
Tokyo

PROGRAM OF 8TH JSJT ANNUAL MEETING

():Chairperson

July 18, Thursday		July 19, Friday	
9:10-9:55	*MANAGERS' MEETING		
9:55-10:40	*DIRECTORS' MEETING	9:30-11:00	<p style="text-align: center;">Oral Session 2 Gene Therapy of Congenital Disorders (T. Okuyama, T. Ohashi) Abstracts14-19</p>
10:40-11:25	*COUNCILORS' MEETING		
12:00-13:00	<p style="text-align: center;">Opening Remarks & General Assembly <i>Masami Muramatsu</i></p>	11:10-12:10	<p style="text-align: center;">Cell & Gene Targeting (I. Saito, H. Kato) Abstracts20-23</p>
13:10-15:10	<p style="text-align: center;">Oral Session 1 Cancer Gene Therapy (1) (N. Tanaka, H. Nakauchi) Abstracts1-8</p>	13:30-14:10	<p style="text-align: center;">Presidential Lecture (1) <i>Olivier Danos</i> (Y. Eto)</p>
		14:10-14:50	<p style="text-align: center;">Presidential Address <i>Masami Muramatsu</i> (S. Asano)</p>
15:20-16:20	<p style="text-align: center;">International Symposium (Gene Therapy in Asia) <i>Suthat Fucharoen</i> (T. Ohno) <i>Sunyoung Kim</i> (F. Endo) <i>Xuetao Cao</i> (J. Yodoi) <i>Ning-Sun Yang</i> (M. Itakura)</p>	15:00-16:00	<p style="text-align: center;">Cancer Gene Therapy (2) (H. Hamada, T. Nukiwa) Abstracts24-27</p>
16:30-17:45	<p style="text-align: center;">Vector Development (1) (K. Ozawa, K. Mitani) Abstracts9-13</p>	16:25-17:40	<p style="text-align: center;">Vector Development (2) (K. Tani, M. Hasegawa) Abstracts28-32</p>
18:00	<p style="text-align: center;">Reception at Josui Kaikan</p>	17:40-18:20	<p style="text-align: center;">Poster Session 1 (Odd Numbers)</p>
		19:00-21:30	<p style="text-align: center;">AsSGT at a Japanese Houseboat</p>

():Chairpersons

July 20, Saturday

9:30-11:00	<p>Oral Session 3 Corporate Symposium <i>Clinical Trials of Gene Therapy</i> <i>Leonard E. Post</i> (Y. Kaneda) <i>Shu Fen Wen</i> (J. Yoshida) <i>DC Yu</i> (T. Yoshida) <i>Daniel R. Marshak</i> (N. Emi) <i>Gabor Veres</i> (H. Tahara) <i>Markus Müller</i> (S. Tsuji)</p>
11:20-12:00	<p>Presidential Lecture (2) <i>Malcolm K. Brenner</i> (N. Saijo)</p>
13:30-14:10	<p>Presidential Lecture (3) <i>Ian Alexander</i> (T. Shimada)</p>
14:20-15:20	<p>Presidential Symposium <i>Cell Specific Gene Expression</i> <i>towards Gene Therapy</i> <i>Hiroyuki Mizuguchi</i> <i>Izumu Saito</i> <i>Masayuki Yamamoto</i> (H. Hirai, Y. Matsubara)</p>
15:30-17:00	<p>Gene Therapy of Acquired Disorders (K. Okuda, J. Fujimoto) Abstracts33-38</p>
17:00-17:40	<p>Poster Session 2 (Even Numbers)</p>
17:40	<p>Closing Remarks <i>Masami Muramatsu</i></p>

Presidential Address

Date: July 19, 2002

Time: 14:10-14:50

Masami Muramatsu (Chairperson: Shigetaka Asano)

From Genome to Gene Therapy

International Symposium: Gene Therapy in Asia

Date: July 18, 2002

Time: 15:20-16:20

Suthat Fucharoen (Chairperson: Tsuneya Ohno)

Corretion of Hb E Mutation with Aberrant Splicing in the Exon Generating Correct mRNA and Protein Production

Sunyong Kim (Chairperson: Fumio Endo)

Development of Effective Gene Delivery Technologies to Human CD34⁺ Stem Cells and Their Applications to Human Diseases

Xuetao Cao (Chairperson: Noriyuki Kasahara)

Attracting T Cells and Dendritic Cells for Efficient Antigen Presentation and T Cell Activation: A Powerful Approach to Cancer Gene Therapy

Ning-Sun Yang (Chairperson: Mitsuo Itakura)

Gene Gun and Micro-Seeding Technologies for Developing DNA Vaccine Strategies against Cancerous or Infections Diseases

Presidential Lecture (1)

Date: July19, 2002

Time: 13:30-14:10

Olivier Danos (Chairperson: Yoshikatsu Eto)

Gene and Cell-Based Approaches for Engineering and Repairing the Skeletal Muscle

Presidential Lecture (2)

Date: July20, 2002

Time: 11:20-12:00

Malcolm K Brenner (Chairperson: Nagahiro Saijo)

Progress and Problems in Clinical Gene Therapy

Presidential Lecture (3)

Date: July20, 2002

Time: 13:30-14:10

Ian Alexander (Chairperson: Takashi Shimada)

Treatment of an Infant with NK⁺ Severe Combined Immunodeficiency(SCID)-X1 by Gene Therapy in Australia

Presidential Symposium:

Cell Specific Gene Expression towards Gene Therapy

Date: July 20, 2002

Time: 14:20-15:20

(Chairpersons: Hisamaru Hirai, Youichi Matsubara)

Hiroyuki Mizuguchi

Single Adenovirus Vector Containing Both rtTA and tTS Expression Cassettes Provides Tight Regulation of Transgene Expression in a Positive Manner

Izumu Saito

Cancer-Specific Gene Expression Based on Gene Regulation Using Site-Specific Recombinases

Masayuki Yamamoto

Molecular Dissection of GATA-1 Gene Hematopoietic Regulatory Domain

Corporate Symposium: Clinical Trials of Gene Therapy

Date: July 20, 2002

Time: 9:30-11:00

Leonard E. Post (Chairperson: Yasufumi Kaneda)

Selectively Replicating Adenoviruses as Therapeutic Agents and Vectors for Specific Expression of Genes in Cancer Cells

Shu Fen Wen (Chairperson: Jun Yoshida)

Adenovirus-Based Tumor Suppressor Gene Therapy for Cancer: Clinical Experience with rAd-p53

DC Yu (Chairperson: Teruhiko Yoshida)

Selectively Replicating Viruses as Oncolytic Agents against Cancer

Daniel R. Marshak (Chairperson: Nobuhiko Emi)

Mesenchymal Stem Cells

Gabor Veres (Chairperson: Hideaki Tahara)

Development of HIV-1 Based Vectors for Clinical Applications

Markus Müller (Chairperson: Syouji Tsuji)

Large-Scale Manufacture of Plasmid DNA for Pharmaceutical Applications: Current Plasmid Quality Standards-Contamination-Process Challenges and Solutions

PROGRAM
Oral Session 1 (Abstracts 1-13)

Day 1: July 18, 2002

Cancer Gene Therapy (1) 13:10-15:10

Chairpersons: Noriaki Tanaka, Hiromitsu Nakauchi

1. **Evidence for the Expansion of the MDR1-Transduced Cells *In Vivo* in a Clinical Study of MDR1 Gene Therapy Against Breast Cancer**
Sugimoto Y., Takahashi S., Nakane M., Mitsuhashi J., Tsukahara S., Nagamine T., Minowa S., Shibata H., Ito Y., Hatake K., Tsuruo T., Horikoshi N., Aiba K.

2. **Adenovirus Vectors for Tumour and Stem Cell Gene Therapy**
Lieber A.

3. **Interim Report of Safety, Efficacy, Transgene Expression, and Shedding in Biological Fluids Following Intratumoral Administration of Adenovirus Expressing Wild-Type p53 Gene (Ad-p53) in Advanced Lung Cancer Patients**
Fujiwara T., Kataoka M., Kagawa S., Nakamura A., Tanaka N.

4. **Transfusion of Donor Lymphocytes Transduced with the Herpes Simplex Thymidine Kinase Gene into Patients with Relapsed Leukemia After Allogeneic Bone Marrow Transplantation**
Onodera M., Kaneko S., Kojima H., Hasagawa Y., Fukushima T., Sumazaki R., Matsui A., Nagasawa T., Nakauchi H.

5. **Suppression of Tumor Growth by Lentiviral Mediated Systemic Antiangiogenic Gene Therapy in Non-Hodigkin Lymphoma**
Miyake K., Suzuki N., Shimada T.

6. **Human β -Interferon Gene Therapy for Malignant Glioma Clinical Trials**
Yoshida J., Mizuno M., Kajita Y., Fujii M., Wakabayashi T.

7. **Phase I/II Study of Adenoviral Vector Delivery of HSK-TK Gene and the Intravenous Administration of Ganciclovir in Men with Local Recurrence of Prostate Cancer after Hormonal Therapy**

Nasu Y., Ebara S., Saika T., Tsushima T., Thompson TC., Kumon H.

8. **Preclinical Studies of Autologous Immuno-Gene Therapy for Neuroblastoma**

Manabe A., Hirose I., Tsuji K., Yamashita N.

Vector Development (1) 16:30-17:45

Chairpersons: Keiya Ozawa, Kounosuke Mitani

9. **Second Generation Selective Amplifier Genes for Efficient *In Vivo* Expansion of Gene Modified Hematopoietic Cells**

Nagashima T., Ueda Y., Hanazono Y., Kume A., Shibata H., Ageyama N., Komatsu N., Terao K., Ozawa K., Hasegawa M.

10. **Helper-Independent Chromosomal Integration of Naked Double-Stranded Linear DNA Vectors in Mice**

Nakai H., Montini N., Fuess S., Storm TA., Meuse L., Finegold M., Grompe M., Kay MA.

11. **Host Chromosomal Effects of Naked Plasmid DNA Vector Integration in Mice**

Nakai H., Montini N., Fuess S., Storm TA., Meuse L., Finegold M., Grompe M., Kay MA.

12. **Production of Recombinant Adeno-Associated Virus Type 2 in Insect Cells**

Urabe M., Ding C., Kotin RM.

13. **Development of an Adenoviral/Lentiviral Hybrid Vector for Efficient and Long-Term Gene Expression**

Kubo S., Mitani K.

Oral Session 2 (Abstracts 14-32)

Day 2: July 19, 2002

Gene Therapy of Congenital Disorders 9:30-11:00

Chairpersons: Takashi Shimada, Toya Ohashi

14. **Functional Analysis of an Insulator Vector for Human Gamma-Globin in Mouse Model for β Thalassemia**

Nishino T., Yannaki E., Stamatoyannopoulos G., Emery DW.

15. **Inhibition of Neovascularization in a Murine Proliferative Retinopathy Model by Lentivirus Mediated Expression of Angiostatin**

Igarashi T., Miyake K., Kato M., Kato K., Suzuki N., Ishizaki M., Takahashi H., Ohara K., Shimada T.

16. **Complete Normalization of Skeletal Problems in Mice with Mucopolysaccharidosis Type VII by Neonatal Gene Therapy Mediated by Adenoviral Vectors**

Kanaji A., Kosuga M., Tanabe A., Kamata Y., Azuma N., Yamada M., Sakamaki T., Toyama Y., Okuyama T.

17. **Transfer of Maternally Administrated Liposome-DNA Complex into Fetus in a Pregnant Primate Model**

Nakamura S., Hirano M., Mitsunaga F., Shimuzu K., Okada M., Imamura T.

18. **Development of AAV Vector Mediated Enzyme Replacement Therapy for Fabry Disease: Echocardiographic Evaluation of Gene Therapy of Fabry Mice**

Takahashi H., Hirai Y., Seino Y., Hashimoto Y., Sakuraba H., Shimada T.

19. **Long-Term Correction of Central Diabetes Insipidus by Stereotaxic Injection of AAV Vector-Expressing Arginine-Vasopressin into Hypothalamus in Brattleboro Rats**

Ideno J., Mizukami H., Honda K., Okda T., Hanazono Y., Kume A., Saito T., Ishibashi S., Ozawa K.

Cell and Gene Targeting 11:10-12:10

Chairpersons: Izumu Saito, Harubumi Kato

20. **Bone Regeneration Using Mesenchymal Stem Cells Transduced by Adenoviral Vectors with RGD-Modified Fiber**

Tsuda H., Wada T., Ito Y., Sasaki K., Kobune M., Uchida H., Dehari H., Nakamura K., Ishii S., Hamada H.

21. **Clonal Insertion Analysis of Gene-Modified Hematopoietic Cells After Hematopoietic Reconstitution with Retrovirally-Transduced CD34⁺ Cells in Nonhuman Primates.**

Takatoku M., Hanazono Y., Nagashima T., Shibata H., Ageyama N., Ueda Y., Kume A., Dunbar CE., Terao K., Hasegawa M., Ozawa K.

22. **Death of Ph1-Positive Acute Lymphoblastic Leukemia Cells with Transduction of Maxizyme Targeting Minor Bcr-Abl Fusion Gene Using a Third-Generation Lentiviral Vector System**

Soda Y., Tani K., Bai Y., Takata I., Kuwabara T., Warashina M., Tanabe T., Saiki M., Chen M., Li X., Miyoshi H., Sugita K., Nakazawa S., Tojo A., Taira K., Asano S.

23. **Gene Therapy for Non-Small Cell Lung Cancer Using p53 Adenovirus Vector Combined with Cisplatin**

Nakamura H., Saji H., Kawasaki N., Ogata A., Hosaka M., Kato H.

Cancer Gene Therapy (2) 15:00-16:15

Chairpersons: Hirofumi Hamada, Toshihiro Nukiwa

24. **Enhanced and Selective Transduction by M Gene-Deficient Sendai Virus Vectors Inhibits Protease-Rich Metastatic Tumor Growth**

Kinoh H., Inoue M., Washizawa K., Yamamoto T., Iida A., Hasegawa M.

25. **In Situ Generation of Pseudotyped Retroviral Progeny by Adenovirus-Mediated Transduction of Glioma Cells Enhances Killing Effect of HSV-TK Suicide Gene *In Vitro* and *In Vivo***

Okada T., Ajalli R., Onodera M., Ramsey WJ., Mizukami H., Hanazono Y., Kume A., Hamada H., Blaese RM., Ozawa K.

26. **Combination Gene Therapy of SLPI Promoter Controlled Replication Competent Adenovirus and NK4 Encoding Adenovirus Vector for Non-Small Cell Lung Cancer**

Maemondo M., Narumi K., Saijo Y., Kikuchi T., Tazawa R., Hagiwara K., Takahashi M., Niitsu Y., Nukiwa T.

27. **Systemic Cytokine Gene Therapy Suppresses Metastatic Sarcoma and Cancer in Mice**

Itokawa Y., Ueda Y., Kishida T., Asada H., Cui FD., Fuji N., Fujiwara H., Imanishi J., Yamagishi H., Mazda O.

Vector Development (2) 16:25-17:40

Chairpersons: Kenzaburo Tani, Mamoru Hasegawa

28. **Targeted Gene Correction Using Helper-Dependent Adenoviral Vectors**

Balamotis MA., Mitani K.

29. **Efficient Gene Transfer into Human CD34⁺ Cells by an Adenovirus Type 35 Vector**

Sakurai F., Mizuguchi H., Hayakawa T.

30. **Sendai Virus Vectors with Improved Tropism and Safety: Modification of Hemagglutinin-Neuraminidase (HN) Protein with a Folate-Conjugated Monoclonal Antibody**

Hara H., Sakakibara H., Ueda Y., Hasegawa M.

31. **A Novel Packaging System of HIV Vectors Using CHO Based Stable Packaging Cell Line and an Adenovirus Based Expression Vectors**

Miyake K., Suzuki N., Shimada T.

32. **Influence of Gene Transduction with a Third-Generation Selfinactivating Lentiviral Vector to the Gene Expression of Human CD34-Positive Hematopoietic Cells**

Bai Y., Soda Y., Tani K., Saiki M., Nakazaki Y., Li X., Chen M., Izawa K., Sasaki E., Nishioka C., Oiwa M., Takahashi K., Tojo A., Miyoshi H., Katagiri T., Takahashi T., Nakamura Y., Asano S.

Oral Session 3 (Abstracts 33-38)

Day 3: July 20, 2002

Gene Therapy of Acquired Disorders 15:30-17:00

Chairpersons: Kenji Okuda, Jiro Fujimoto

33. **Oral Administration of Recombinant Adeno-Associated Virus Elicits Protective Immunity against HIV-1**

Xin KQ., Mizukami H., Ozawa K., Okuda K.

34. **A Preclinical Safety Study for Intramuscular Administration of F-Defective, Non-Transmissible Recombinant Sendai Virus Vector Using Non-Human Primate**

Yonemitsu Y., Terao K., Ono F., Kuwahara T., Iida A., Hara H., Iwasaki H., Hasegawa M., Sueishi K.

35. **Anti-MCP-1 Gene Therapy Against Restenosis and Atherosclerosis**

Egashira K.

36. **Recombinant Sendai Virus-Mediated Intramuscular Gene Transfer of FGF-2 Restores Collateral Blood Perfusion of Chronically Ischemic Rabbit Hind Limb, and Inhibits Neointimal Hyperplasia of Autologous Femoral Vein Grafts**

Yonemitsu Y., Komori K., Shoji T., Sugimachi K., Hasegawa M., Sueishi K.

37. **Intramuscular Delivery of AAV-GDNF Delayed the Disease Progression in a Transgenic Mouse Model of Amyotrophic Lateral Sclerosis**

Wang LJ., Lu YY., Muramatsu S., Ikeguchi K., Fujimoto K., Okada T., Mizukami H., Matsushita T., Hanazono Y., Kume A., Nagatsu T., Ozawa K., Nakano I.

38. **NF- κ B Decoy Oligodeoxynucleotides(ODN) Inhibits CCL4-Induced Liver Injury And Fibrosis In Mice**

Son G., Ogusi I., Hirano T., Iimuro Y., Fujimoto J.

Poster Session

Day 2: July 19, 2002 (17:40-18:20, Odd Numbers)

Day 3: July 20, 2002 (17:00-17:40, Even Numbers)

Cancer Gene Therapy

39. **Cell Growth-Linked Midkine Promoter Can Activate Foreign Gene in Human Breast Cancer and Hepatocellular Carcinoma**
Yu L., Tomizawa M., Kadomatsu K., Muramatsu T., Matsubara S., Sakiyama S., Tagawa M.
40. **Therapeutic Efficacy of Combined Replicative Adenovirus and Non-Replicative Adenovirus Expressing IL-12 Studied in an Immunocompetent Mouse Model**
Nagayama Y., Nakao K., Mizuguchi H., Hayakawa T.
41. **Experimental Gene Therapy for Gallbladder Cancer Using Tumor-Specific Replicating E1 Mutant Adenoviral Vectors**
Fukuda K., Abei M., Ugai H., Seo E., Hamada H., Tanaka N., Yokoyama K.
42. **Combination of 5-Fluorocytosine/Cytosine Deaminase Suicide Gene Therapy with Replication Competent Adenovirus for Human Glioma Cell Lines**
Ohtsuka S., Kurozumi K., Kambara H., Ono Y., Tamiya T., Hamada H., Ohmoto T.
43. ***In Vivo* Transduction with Interleukin (IL) -21 and IL-15 Genes Resulted in Complete Regression of Lymphoma Metastasis in Murine Liver**
Kishida T., Asada H., Cui FD., Imanishi J., Mazda O.
44. **Adenovirus Mediated ICAM-2 Transfection to Cancer Cells Is a Useful Immuno-Gene Therapy for the Peritoneal Metastasis of Scirrhous Gastric Carcinoma**
Kosaka K., Yashiro M., Tanaka H., Hirakawa K.
45. **Enhancement of Antitumor Effect on Drug-Sensitivity by Treatment with Antisense HER-2 in Gastric Carcinoma Cells**
Kim R., Tanabe K., Toge T.

46. **Immunological Mechanisms of Anti-Tumor Effects Generated by Interferon- β Gene Therapy in the Treatment of Intraperitoneal Malignancy**
Odaka M., Tanaka T., Albelda SM., Yamazaki Y.
47. **Apoptosis Induction with 5-Fluorocytosine/Cytosine Deaminase (5-FC/CD) Gene Therapy Mediated by Adenovirus for Human Malignant Glioma Cells**
Kurozumi K., Tamiya T., Otsuka S., Kambara H., Adachi Y., Ichikawa T., Ono Y., Ohmoto T., Hamada H.
48. **Proliferative Effect of Hepatocyte Growth Factor (HGF) and Relevance of the HGF/C-Met Signal Transduction Pathways in Rat Oval Cells**
Okano J., Shiota G., Murawaki Y.
49. **Efficient Introduction of EGFP RNA in Human Hematopoietic Cells by Electroporation**
Takahashi M., Narita M., Flavio A., Liu A., Furukawa T., Toba K., Aizawa Y.
50. **Therapeutic Effect of Intravenous Interferon Gene Delivery with Naked DNA in Murine Metastasis Models**
Watanabe Y., Kobayashi N., Kuramoto T., Chen S., Takakura Y.
51. **Enhancement of Thymidine Kinase-Mediated Killing of Malignant Glioma by Bims, a BH3-only Cell Death Activator**
Yamaguchi T., Okada T., Nagai M., Takeuchi K., Shinoda S., Masuzawa T., Ozawa K., Inaba T.
52. **The Effect of HGF on the Growth of Hepatocellular Carcinoma *In Vivo***
Morikawa S., Hirano T., Ueki T., Imuro Y., Fujimoto J.
53. ***In Vitro* Thymidine Kinase/Ganciclovir-Based Suicide Gene Therapy Against Malignant Lymphoproliferative Disorders Mediated by Replication Defective Herpes Simplex Virus-1**
Kuwayama Y., Misumi M., Suzuki T., Yoshida K., Bessho M., Moriuchi S., Glorioso JC., Muramatsu M.
54. **Gene Therapy for Hodgkin's Lymphoma by Means of Replication Defective Herpes Simplex Virus-1 Overexpressing Mutant I κ B α**
Misumi M., Kuwayama Y., Suzuki T., Yoshida K., Moriuchi S., Muramatsu M., Bessho M.

55. **Enhanced Anti-CD20 Monoclonal Antibody-Based Immunotherapy Against Lymphoma Mediated by HSV-1 Suicide Gene Therapy *In Vitro***
Suzuki T., Misumi M., Kuwayama Y., Yoshida K., Bessho M., Moriuchi S., Glorioso JC., Muramatsu M.
56. **Induction of Antitumor Immunity Using Dendritic Cells Genetically Engineered to Express Tumor Antigen Is Enhanced by the Co-Transduction of GM-CSF Gene**
Ojima T., Iwahashi M., Nakamura M., Nakamori M., Ueda K., Matuura I., Yamaue H.
57. **Suppression of Liver Metastases by Intramuscular Administration of Recombinant Adeno-Associated Virus Vector Expressing Endostatin in Golden Hamster Model of Pancreatic Cancer**
Noro T., Miyake K., Suzuki N., Uchida E., Yamazaki Y., Shimada T.
58. **Intracerebral Grafting of Hematopoietic Stem Cells Genetically Modified by the VSV-G Pseudo-Type Retroviral Vector Gcdnsap as a New Gene and Cellular Therapy for Neurological Disorders**
Shimizu T., Onodera M., Kaneko S., Mochizuki H., Nagasawa T., Nakauchi H.
59. **Epstein-Barr Virus Replicon Vector System Enhances the Transgene Expression: Applications to Gene Therapy for Melanoma**
Yamamoto S., Otomo T., Saeki Y., Morishita R., Kaneda Y.
60. **Expression of the Interleukin-21 Gene in Murine Colon Carcinoma Cells Produced T Cell and Natural Killer Cell Dependent Antitumor Effects**
Ugai S., Wang Y., Shimozato O., Yamaguchi T., Kawamura K., Saisho H., Sakiyama S., Tagawa M.
61. **Stimulation of Adenoviral Wild-Type p53 Induced Apoptotic Cell Death by Overexpression of P33ING1 in T.Tn Human Esophageal Carcinoma Cells**
Shimada H., Ochiai T., Hiwasa T.
62. **Anti-Tumor Activity of IAB-1 (Cationic MLV Liposomes Containing Human Interferon- β Gene) Against Human Renal Cell Carcinoma**
Nakanishi H., Mizutani Y., Mizuno M., Nakao M., Mazda O., Imanishi J., Yoshida J., Miki T.

63. **Augmented Tumor-Specific p53 Gene Therapy for Hepatocellular Carcinoma in Combination with Selectively Replication Competent Adenovirus and Chemotherapeutic Agent**

Yamada Y., Takahashi M., Sato Y., Fukaura J., Sato T., Iyama S., Oku T., Sumiyoshi T., Sagawa T., Niitsu Y.

64. **Gene Therapy for Bladder Cancer by Dual-Restricted Replication-Competent Adenovirus with RGD-Modified Fiber**

Dehari H., Ito Y., Sasaki K., Kobune M., Uchida H., Nakamura T., Hamada H.

65. **Immunohistochemical Determination of Anti-Renal Cell Carcinoma Immunity Elicited by GM-CSF Gene Transduced Lethally Irradiated Autologous Tumor Cell Vaccine (GVAX)**

Oyaizu N., Tani K., Nakazaki Y., Hase H., Takahashi K., Monma M., Ohata J., Watari K., Satoh N., Tojo A., Yamashita N., Maekawa T., Eriguchi M., Tomikawa S., Hanazawa K., Wakumoto Y., Kawai K., Azuma M., Kakizoe T., Okumura K., Akaza H., Fujime M., Mulligan R., Clift S., Ando D., Sherwin S., Asano S.

66. (This poster has been moved to “Gene Therapy of Acquired Disorders” section.)

Gene Therapy of Congenital Disorders

67. **Correction of Hyperphenylalanemia and Hypopigmentation in Phenylketonuria Mice by Adeno-Associated Virus-Mediated Gene Transfer into the Liver**

Mochizuki S., Mizukami H., Okada T., Hanazono Y., Kobayashi E., Matsubara Y., Hoshika A., Ozawa K., Kume A.

68. **Idennet, an Internet Resource for Clinical Genetics and Survey on Today's Clinical Gene Therapy Research & Development in Japan**

Fujita J., Itoh K.

69. **Micro-Dystrophin cDNA Ameliorates Dystrophic Phenotypes When Introduced into *mdx* Mice as a Transgene**

Sakamoto M., Yuasa K., Yoshimura M., Yokota T., Masuda S., Ikemoto T., Miyagoe-Suzuki Y., Takeda S.

70. **Gene Transfer to CNS by Intrauterine Administration of Adenovirus**

Shen JS., Meng XL., Ohashi T., Eto Y.

71. **Utrophin mRNA Stability Can Be Involved in Utrophin Over-Expression in AxCALacZ-Injected Neonatal *mdx* Skeletal Muscles**

Itoh Y., Fujimori K., Miyagoe-Suzuki Y., Takeda S.

72. **Gene Therapy for the Brain of GM1 Gangliosidosis Murine Model by Intravenous Administration of β -Galactosidase Gene in Adenovirus Vector**

Takaura N., Yagi T., Maeda M., Ogawa Y., Nanba E., Ohshima A., Matsuda J., Suzuki Y., Yamano T., Tanaka A.

Gene Therapy of Acquired Disorders

66. **Adeno-Associated Viral Vector Gene Transfer to the Brain for Novel Models of Neurodegenerative Diseases**

Klein RL., Gong Y., Meyer EM., King MA.

73. **Gene Therapy for Rat Liver Cirrhosis by Hepatocyte Growth Factor (HGF) Naked Plasmid DNA Transfer into Liver**

Kanemura H., Takeuchi M., Iimuro Y., Ueki T., Hirano T., Horiguchi K., Asano Y., Fujimoto J.

74. **HGF Gene Therapy of Dog Liver Cirrhosis Via Hepatic Artery**

Horiguchi K., Takeuchi M., Ueki T., Hirano T., Kanemura H., Asano Y., Iimuro Y., Fujimoto J.

75. **Sendai Virus Vectors Carrying Neurotrophic Factor Genes Rescue Model Animals from Ischemic Brain Injury by Several Hours Post-Ischemic Administration**

Shirakura M., Inoue M., Fukumura M., Fujikawa S., Komaba S., Washizawa K., Yamamoto T., Maeda M., Watabe K., Yoshikawa Y., Hasegawa M.

76. **Treatment of Murine Lupus Nephritis by Chemokine Antagonists**

Hasegawa H., Kohno M., Sasaki M., Inoue A., Nose M., Fujita S.

77. **Intravenous Injection of Naked Plasmid Encoding Hepatocyte Growth Factor Ameliorates Bleomycin-Induced Pulmonary Fibrosis**

Watanabe M., Ebina M., Miki M., Tahara M., Hagiwara K., Nakamura T., Nukiwa T.

78. **Intramuscular Injection of AAV Vector-Expressing IL-10 for Prevention of Atherosclerosis**
Yoshioka T., Okada T., Maeda Y., Shimpo M., Nomoto T., Takeuchi K., Mizukami H., Hanazono Y., Kume A., Ohgawara S., Ikeda U., Shimada K., Ozawa K.
79. **Hepatic Insulin Gene Therapy of STZ-Diabetic Mouse by Intravenous Administration of Naked Epstein-Barr Virus (EBV) -Based Plasmid Vectors**
Yasutomi K., Kishida T., Imanishi J., Takeuchi T., Mazda O.
80. **Brain Malformation Caused by a Unique Gene Transfer to the CNS Through Embryonic Mouse Ventricles**
Matsukawa N., Ikenaka K., Yuasa H., Hattori M., Otsuka Y., Fujimori O., Ueda R., Ojika K.

Cell and Gene Targeting

81. **CXCR4-Targeting, Ecotropic Murine Leukemia Virus-Based Retroviral Vector**
Katane M., Takao E., Kubo Y., Fujita R., Amanuma H.
82. **Soluble Car-Scf Fusion Proteins Improve Adenoviral Vector Mediated Gene Transfer to Human Hematopoietic Cells**
Itoh A., Okada T., Mizuguchi H., Hayakawa T., Mizukami H., Kume A., Hanazono Y., Ozawa K.
83. **Cell-Specific Gene Transfer by α -Cyclodextrin Conjugates with Mannosylated Polyamidoamine Dendrimers**
Arima H., Wada K., Kihara F., Hirayama F., Uekama K.
84. **In Situ HSVtk Gene Transfer to Chemically-Induced Rat Urinary Bladder Carcinomas Using *In Vivo* Electroporation**
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