

**THE 15th ANNUAL MEETING  
2009**

**JAPAN SOCIETY OF  
GENE THERAPY**

**PROGRAM AND ABSTRACTS**

**Date**

July 9-11, 2009

**Venue**

Osaka University Convention Center

1-1, Yamada-oka, Suita-city 565-0871,  
Osaka

**JSGT Home-page URL: <http://jsgt.jp>**



# PROGRAM

## Presidential Lecture

Date: July 9, 2009

13:40-14:40, Hall

Chairperson: Shigetaka Asano

*Yasufumi Kaneda (Division of Gene Therapy Science, Graduate School of Medicine, Osaka University)*

**DEVELOPMENT OF ANTI-CANCER STRATEGIES USING HVJ ENVELOPE**

## Special Lecture I

Date: July 9, 2009

16:00-17:00, Hall

Chairperson: Kenzaburo Tani

*Shiroh Futaki (Institute for Chemical Research, Kyoto University)*

**CHEMICAL AND BIOLOGICAL FACTORS THAT CONTRIBUTE TO THE INTERNALIZATION OF ARGININE-RICH CELL-PENETRATING PEPTIDES**

## Special Lecture II

Date: July 10, 2009

9:00-10:00, Hall

Chairperson: Yasufumi Kaneda

*Shizuo Akira (WPI Immunology Frontier Research Center, Osaka University)*

**NEGATIVE REGULATION OF TOLL-LIKE RECEPTOR MEDIATED IMMUNE RESPONSES**

## Special Lecture III

Date: July 10, 2009

13:00-14:00, Hall

Chairperson: Kazunori Kataoka

*Ernst Wagner (Ludwigs-Maximilians-University, Germany)*

**DYNAMIC POLYMERS FOR THERAPEUTIC DNA AND RNA DELIVERY**

## Special Lecture IV

Date: July 10, 2009

16:00-17:00, Hall

Chairperson: Ryuichi Morishita

*Issei Komuro* (Chiba University Graduate School of Medicine, Osaka University Graduate School of Medicine)

**MOLECULAR MECHANISMS AND NOVEL TREATMENTS FOR HEART FAILURE**

## Scientific Symposium

### “Cancer Immunology and Immunotherapy”

Date: July 10, 2009

10:00-11:40, Hall

Chairpersons: Yutaka Kawakami, Hiroshi Shiku

*Hiroshi Shiku* (Mie University Graduate School of Medicine)

**IMMUNO-GENE THERAPY BY T CELLS TRANSDUCED WITH CANCER-SPECIFIC TCR GENES**

*Yutaka Kawakami* (Keio University School of Medicine)

**IMPROVEMENT OF IMMUNOTHERAPY BY MODULATION OF IMMUNE-EVASIVE TUMOR MICROENVIRONMENT**

*Haruo Sugiyama* (Osaka University Graduate School of Medicine)

**WT1 PEPTIDE-BASED CANCER IMMUNOTHERAPY**

*Yasutomo Nasu* (Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences)

**IN SITU GENE THERAPY FOR PROSTATE CANCER - ITS LOCAL AND SYSTEMIC EFFECT -**

## **JSGDD Symposium**

### **“Recent Progress in Japanese Society of Gene Design and Delivery”** *(Japanese)*

Date: July 10, 2009

14:00-16:00, Hall

Chairpersons: Mariko Harada-Shiba, Tetsuji Yamaoka

#### **S-1. POLYSACCHARIDE NANOGEL ENGINEERING FOR DDS**

*Kazunari Akiyoshi (Institute of Biomaterials and Bioengineering, Medical and Dental University)*

#### **S-2. INTRACELLULAR SIGNAL RESPONSIVE GENE REGULATION SYSTEM FOR DISEASE CELL SPECIFIC GENE THERAPY AND IMAGING**

*Yoshiki Katayama (Department of Applied Chemistry, Faculty of Engineering, Kyushu University)*

#### **S-3. INTELLIGENT FUNCTIONS FOR NEW APPROACH OF THERAPEUTIC OLIGONUCLEOTIDES**

*Shigeki Sasaki (Graduate School of Pharmaceutical Sciences, Kyushu University)*

#### **S-4. DES IN THE FUTURE: THE PRO-HEALING STRATEGY BY FORMULATION OF PITAVASTATIN-INCORPORATED NANOPARTICLE ELUTING STENT**

*Kensuke Egashira (Graduate School of Medical Science, Kyushu University)*

## **International Symposium of Gene Therapy**

### **“Cutting Edge of Cancer Gene Therapy”**

Date: July 11, 2009

9:45-11:50, Hall

Chairpersons: Noriyuki Kasahara, Chae-Ok Yun

*Chae-Ok Yun (Yonsei University College of Medicine, Korea)*

**DWP418, A TARGETED CANCER GENE THERAPY WITH AN EMERGING ROLE IN TUMOR  
TISSUE PENETRATION TARGETED CANCER GENE THERAPY WITH A NOVEL ACTIVITY OF  
TUMOR TISSUE PENETRATION**

*John Y. Dong (Medical University of South Carolina, GenPhar, Inc. USA)*

**A NOVEL ONCOLYTIC VECTOR THERAPY APPROACH THAT COMBINES PROSTATE-SPECIFIC VECTOR REPLICATION WITH VACCINE ANTIGEN PRESENTATION**

*Noriyuki Kasahara (University of California, Los Angeles, USA)*

**RCR VECTORS: ENHANCING TRANSDUCTION EFFICIENCY AND TUMOR SELECTIVITY**

*Karin M. L. Gaensler (University of California, San Francisco, USA)*

**USING GENETIC ENGINEERING APPROACHES IN TRANSPLANTATION AND TOLERANCE INDUCTION**

*Jean-Marc Limacher (Transgene S.A, France)*

**BIOMARKERS ASSOCIATED WITH CLINICAL OUTCOME IN ADVANCED NON SMALL CELL LUNG CANCER PATIENTS TREATED WITH THE TARGETED IMMUNOTHERAPY PRODUCT TG4010**

## Plenary Session 1 (Abstracts 1-3)

Date: July 9, 2009

9:00-9:45, Hall

Chairperson: Keiya Ozawa

### 1. MODIFICATION OF NOVEL ANGIOGENIC PEPTIDE, AG-30, TOWARD CLINICAL APPLICATION

*Nakagami H., Nishikawa T., Tamai K., Kaneda Y.*

### 2. NEONATAL GENE THERAPY USING LENTIVIRAL VECTOR SYSTEM FOR MURINE POMPE DISEASE: LONG TERM EFFICACY

*Obikawa-Kyosen S., Iizuka S., Kimura T., Kobayashi H., Fukuda T., Ida H., Eto Y., Ohashi T.*

### 3. EFFICIENT CORRECTION OF CARDIAC ABNORMALITIES IN FABRY MICE BY AAV TYPE8 MEDIATED SYSTEMIC GENE TRANSFER

*Miyake K., Miyake N., Yamamoto M., Kamiya M., Asai K., Shimada T.*

## Plenary Session 2 (Abstracts 4-6)

Date: July 11, 2009

9:00-9:45, Hall

Chairperson: Takashi Shimada

### 4. SILENCING ENDOGENOUS TCR $\alpha/\beta$ WITH siRNAs AND PROTECTING TRANSFERRED MAGE-A4-SPECIFIC TCR $\alpha/\beta$ GENES FROM siRNAs BY CODON MODIFICATION ENHANCE EXPRESSION OF TRANSFERRED TCR $\alpha/\beta$

*Mineno J., Okamoto S., Ikeda H., Shiku H., Kato I.*

### 5. THE DEVELOPMENT OF A POTENT TUMOR SELECTIVE ADENOVIRAL VECTOR TO TARGET BREAST CANCER METASTASIS

*Huyn S., Sato M., Wu L.,*

**6. THE REPORT OF CLINICAL TRIAL USING HF10 WITH NEW DATA**

*Kasuya H., Nomura N., Kanazumi N., Nomoto S., Takeda S., Sugimoto H., Shikano T., Shirota T.,  
Misawa M., Imai T., Nakao A.*

**Plenary Session 3  
(Abstracts 7-9)**

Date: July 11, 2009

14:20-15:05, Hall

Chairperson: Jun Yoshida

**7. PHASE I TRIAL OF AAV VECTOR-MEDIATED GENE DELIVERY OF AROMATIC L-AMINO  
ACID DECARBOXYLASE FOR PARKINSON'S DISEASE**

*Muramatsu S., Fujimoto K., Kato S., Asari S., Mizukami H., Ikeguchi K., Kawakami T., Urabe M.,  
Kume A., Sato T., Watanabe E., Ozawa K., Nakano I.*

**8. A PHASE I/II STUDY OF ADENOVIRUS-MEDIATED INTERLEUKIN-12 GENE THERAPY FOR  
HORMONE REFRACTORY PROSTATE CANCER; A REPORT OF INITIAL 6 CASES.**

*Sasaki K., Nasu Y., Kaku H., Watanabe M., Edamura K., Saika T., Kumon H., Brenner M. K.*

**9. THREE-YEAR CLINICAL FOLLOW-UP PATIENTS TREATED WITH SUICIDE GENE  
MODIFIED DONOR LYMPHOCYTE INFUSION THERAPY IN JAPAN**

*Kaneko S., Ohkoshi Y., Otsu M., Nemoto N., Nanmoku T., Suzukawa K., Hasegawa Y., Kojima H.,  
Fukushima T., Sumazaki R., Onodera M., Harada Y., Sakamaki H., Tsuchida M., Kato S., Bonini C.,  
Bordignon C., Chiba S., Nakauchi H., Nagasawa T.*



**Day 1: July 9, 2009**

**Oral Presentation 1 (Abstracts 10-18)**

**VASCULAR DISEASE**

10:00-11:48, Room 1

Chairpersons: Hironori Nakagami, Yoshikazu Yonemitsu

**10. DEVELOPMENT OF A NOVEL RIBBON-TYPE NF- $\kappa$ B DECOYOLIGODEOXYNUCLEOTIDES TO TREAT RENAL DISEASES**

*Tomita N., Osako M. K., Kunugiza Y., Morishita R.*

**11. HEPATOCYTE GROWTH FACTOR ATTENUATES TGF- $\beta$  1 ANGIOTENSIN II CROSSTALK BY DOWN REGULATION OF ANGIOTENSIN II TYPE 1 RECEPTOR THROUGH PTEN UPREGULATION**

*Kusunoki H., Taniyama Y., Iekushi K., Azuma J., Sanada F., Dosaka N., Yokoi T., Koibuchi N., Kyutoku M., Rakugi H., Morishita R.*

**12. ADENO-ASSOCIATED VECTOR (TYPE 8) MEDIATED EXPRESSION OF Flt-1 EFFICIENTLY INHIBITS NEOVASCULARIZATION IN A MURINE CHOROIDDAL NEOVASCULARIZATION MODEL**

*Igarashi T., Miyake K., Masuda I., Shimada T., Takahashi H.*

**13. ENDOTHELIAL FHL-2 SUPPRESSES VEGF-INDUCED PI3K/AKT PATHWAY THROUGH INTERACTION WITH SPHINGOSINE KINASE-1.**

*Hayashi H., Nakagami H., Takami Y., Koriyama H., Mori M., Tamai K., Morishita R., Kaneda Y.*

**14. NEGATIVE ACTION OF HGF/c-Met SYSTEM ON ANGIOTENSIN II SIGNALING VIA LIGAND-DEPENDENT EGF RECEPTOR DEGRADATION MECHANISM IN VSMC**

*Sanada F., Taniyama Y., Iekushi K., Azuma J., Dosaka N., Shimizu K., Kusunoki H., Koibuchi N., Morishita R.*

**15. ANALYSIS ON SIGNAL PATHWAY OF AN ANTIMICROBIAL AND ANIGOGENIC PEPTIDE, AG-30, STIMULATED ENDOTHELIAL CELLS**

*Nishikawa T., Nakagami H., Morishita R., Maeda A., Tamai K., Kaneda Y.*

**16. A STATIN PROTECTS ABETA-INDUCED MEMORY IMPAIRMENT IN MICE**

*Kurinami H., Sato N., Shinohara M., Takeuchi D., Takeda S., Shimamura M., Morishita R.*

**17. KLOTHO SUPPRESSES TNF- $\alpha$ -INDUCED EXPRESSION OF ADHESION MOLECULES IN THE ENDOTHELIUM AND ATTENUATES NF- $\kappa$ B ACTIVATION**

*Maekawa Y., Ishikawa K., Yasuda O., Oguro R., Hanasaki H., Kida I., Takemura Y., Ohishi M., Katsuya T., Rakugi H.*

**18. CALCIUM CHANNEL BLOCKER PREVENTS MONOCYTE ADHESION TO ENDOTHELIAL CELLS VIA MIP-1 $\beta$  AND OXIDATIVE STRESS SYSTEM**

*Iwamoto Y., Ohishi M., Tatara Y., Yamamoto K., Hayashi N., Shiota A., Takagi T., Takeda M., Kato N., Katsuya T., Rakugi H.*

**Oral Presentation 2 (Abstracts 19-27)**

**VIRAL VECTOR-1**

10:00-11:48, Room 2

Chairpersons: Tomoki Todo, Kohnosuke Mitani

**19. HOMOLOGOUS RECOMBINATION AT THE *HPRT* LOCUS IN HUMAN B-LYMPHOBLASTOID CELL LINES USING ADENO-ASSOCIATED VIRUS VECTOR**

*Aizawa E., Paiboonsukwong K., Mitani K.*

**20. GENE REPAIR OF MUTANT FANCONI ANEMIA GENE IN HUMAN B-LYMPHOBLASTOID CELLS USING ADENO-ASSOCIATED VIRUS VECTOR**

*Paiboonsukwong K., Yamashita T., Mitani K.*

**21. A SENSITIVE ASSAY SYSTEM FOR NEUTRALIZING ANTIBODY AGAINST AAV SEROTYPES, INCLUDING 8 AND 9**

*Mizukami H., Yagi H., Urabe M., Kume A., Ozawa K.*

**22. IDENTIFICATION OF NOVEL FIBER-KNOB MOTIF FOR PANCREATIC CANCERS FROM ADENOVIRAL LIBRARY WITH RANDOM HI-LOOP PEPTIDE INSERTIONS**

*Miura Y., Brown E., Davydova J., Aoki K., Yamamoto M.*

**23. CD146-TARGETED SELECTIVE GENE TRANSFER INTO MELANOMA**

*Hirai S., Sakuragi N., Yamaguchi M., Nakamura K., Kato K., Hamada H.*

**24. DEVELOPMENT OF NEW ADENOVIRAL GENE THERAPY TARGETING HEMATOLOGICAL MALIGNANCIES**

*Yokota Y., Yamamoto M., Nakayama M., Inoue H., Takayama K., Fujiwara T., Mizuguchi H., Curiel D. T., Tani K.*

**25. ONCOLYTIC VIRUS THERAPY FOR PANCREATIC CANCER USING AN ADENOVIRUS LIBRARY DISPLAYING RANDOM PEPTIDES ON THE FIBER KNOB**

*Aoki K., Nishimoto T., Yoshida K., Ohnami S., Kurisu K., Yoshida T.*

**26. THE USE OF THIRD GENERATION ONCOLYTIC HSV-1 EXPRESSING LUCIFERASE FOR DEMONSTRATION OF REAL-TIME BIODISTRIBUTION**

*Wu Y., Ino Y., Todo T.*

**27. FUNCTIONAL COMPARISON AS A TARGETING LIGAND: A SINGLE CHAIN OF ANTIBODY VERSUS EGF FOR EGF RECEPTOR-MEDIATED HSV INFECTION**

*Nakano K.*

**Oral Presentation 3 (Abstracts 28-36)**

**ONCOLYTIC VECTOR-1**

10:00-11:48, Room 3

Chairpersons: Akinobu Gotoh, Masato Yamamoto

**28. ONCOLYTIC VIROTHERAPY FOR MALIGNANT MELANOMA WITH HERPES SIMPLEX VIRUS TYPE 1 MUTANT HF10**

*Watanabe D., Goshima F., Kuhara T., Ishida N., Tamada Y., Matsumoto Y., Nishiyama Y.*

**29. GROWTH INHIBITION OF BLADDER CANCER USING ONCOLYTIC HERPES SIMPLEX VIRUS ARMED WITH INTERLEUKIN 12**

*Hou G., Fukuhara H., Tsurumaki Y., Honma Y., Ino Y., Todo T.*

**30. THIRD GENERATION ONCOLYTIC HSV-1 (G47 $\Delta$ ) IS HIGHLY EFFICACIOUS FOR MALIGNANT PLEURAL MESOTHELIOMA**

*Takahashi M., Ino Y., Todo T.*

**31. INFECTIVITY-ENHANCED ONCOLYTIC ADENOVIRAL VECTORS EXPRESSING SYNGENEIC IFN  $\alpha$  SHOWS STRONG ANTI-TUMOR EFFECT FOR PANCREATIC CANCER.**

*Davydova J., Brown E., Vickers S., Yamamoto M.*

**32. REPLICATION-COMPETENT RETROVIRUS VECTOR -MEDIATED IMMUNOTHERAPY IN A SYNGENEIC COLORECTAL CANCER MODEL**

*Hiraoka K., Kimura T., Logg C., Ohno I., Haga K., Kasahara N.*

**33. "BIOKNIFE- $\beta$ " (UROKINASE-TARGETED ONCOLYTIC SENDAI VIRUS ARMED WITH IFN- $\beta$ ) COMBINED WITH 5-FLUOROURACIL INDUCE COMPLETE TUMOR REGRESSION FOR SQUAMOUS CELL CARCINOMA**

*Kinoh H., Ueda Y., Inoue M., Hasegawa M., Yonemitsu Y.*

**34. INTRAVENOUS INJECTION OF THE CARRIER-CELL BASED ONCOLYTIC ADENOVIRUS SUPPRESSES THE GROWTH OF MULTIPLE LUNG TUMORS IN MOUSE SQUAMOUS CELL CARCINOMA MODEL**

*Shirakawa T., Hamada K., Kitajima S., Mitsuoka C., Saito N., Matsuoka T., Adhim Z., Terao S., Gotoh A., Nibu K., Fujisawa M., Lee K. M.*

**35. TELOMERASE-SPECIFIC ONCOLYTIC ADENOVIRUS ARMED WITH WILD-TYPE p53 GENE (CGCT-04) EFFICIENTLY INDUCES APOPTOSIS IN HUMAN CANCER CELLS**

*Yamasaki Y., Onimatsu H., Hashimoto Y., Kojima T., Tazawa H., Kagawa S., Mizuguchi H., Urata Y., Tanaka N., Fujiwara T.*

**36. PRECLINICAL STUDY OF TELOMERASE-SELECTIVE ONCOLYTIC ADENOVIRUS (OBP-301) IN COMBINATION WITH CHEMOTHERAPEUTIC AGENT AND RADIATION**

*Tazawa H., Hashimoto Y., Kuroda S., Urata Y., Fujiwara T.*

## **Oral Presentation 4 (Abstracts 37-41)**

**SiRNA**

14:45-15:45, Room 1

Chairpersons: Ken-ichiro Kosai, Koichi Miyake

**37. A NOVEL STRATEGY OF THE GENE THERAPY FOR PAD USING SMALL RNA INTERFERENCE OF COLD SHOCK DOMAIN PROTEIN A**

*Saito Y., Nakagami H., Morishita R., Azuma N., Sasajima T., Kaneda Y.*

**38. CONBINATION THERAPY WITH siRNA VECTORS AGAINST VEGF-C AND VEGF-A SUPPRESSES LYMPH NODE AND LUNG METASTASIS IN A MOUSE CANCER MODEL**

*Shibata M., Morimoto J., Otsuki Y.*

**39. CD9 siRNA GENE THERAPY CAN GENERALLY INHIBIT DIVERSE GROWTH FACTORS-INDUCED ANGIOGENESIS IN VITRO AND IN VIVO**

*Kamisanuki T., Sakamoto T., Kosai K.*

**40. THE COMBINATION OF CHEMOTHERAPY WITH IMMUNE-COMPETENT HVJ-E CONTAINING Rad51 siRNA ELICITED VARIEGATED ANTI-TUMOR EFFECTS AND SYNERGISTICALLY SUPPRESSED MELANOMA.**

*Kiyohara E., Katayama I., Tamai K., Kaneda Y.*

**41. siRNA FOR P53 PROTECTS KIDNEYS FROM ISCHEMIA-REPERFUSION INJURY ON EXPERIMENTAL RAT KIDNEY TRANSPLANTATION MODEL**

*Isaka Y., Imamura R., Sandoval R. M., Molitoris B. A., Rakugi H., Takahara S.*

**Oral Presentation 5 (Abstracts 42-47)**

**VIRAL VECTOR-2**

14:45-15:57, Room 2

Chairpersons: Makoto Migita, Mahito Nakanishi

**42. A HIGH INCIDENCE REGION FOR RETROVIRAL VECTOR INTEGRATION NEAR EXON 1 OF THE LMO2 LOCUS**

*Tsukahara T., Yamada K., Yoshino K., Kojima K., Yamashita Y., Ozawa K., Takeshita T.*

**43. PRECLINICAL LONG-TERM SAFETY STUDY OF SIMIAN IMMUNODEFICIENCY VIRUS (SIV)-BASED LENTIVIRAL VECTOR FOR RETINAL GENE TRANSFER IN NON-HUMAN PRIMATES**

*Ikeda Y., Miyazaki M., Kohno R., Murakami Y., Yonemitsu Y., Murata T., Tabata T., Ueda Y., Hasegawa M., Sueishi K., Ishibashi T.*

**44. DEVELOPMENT OF FIBER-SUBSTITUTED ADENOVIRUS VECTORS CONTAINING FOREIGN PEPTIDES IN THE ADENOVIRUS SEROTYPE 35 FIBER KNOB**

*Matsui H., Sakurai F., Kurachi S., Tashiro K., Sugio K., Kawabata K., Yamanishi K., Mizuguchi H.*

**45. ENGINEERED SUBGROUP F ADENOVIRUS VECTOR TARGETING OF GASTROINTESTINAL TRACT**

*Yamasaki S., Davydova J. G., Miura Y., Brown E., Vickers S. M., Yamamoto M.*

**46. DIRECT COMPARISON OF ADENO-ASSOCIATED VIRUS SEROTYPES FOR GLOBAL GENE TRANSFER INTO THE CNS ACROSS THE BBB AFTER NEONATAL SYSTEMIC DELIVERY**

*Miyake N., Miyake K., Odagaki Y., Yamamoto M., Shimada T.*

**47. shRNA-MEDIATED GENE SILENCING IN NON-HUMAN PRIMATES WITH AAV8**

*Kubodera T., Ohira S., Katakai Y., Akari H., Hirai Y., Mizukami H., Ozawa K., Shimada T., Mizusawa H., Yokota T.*

**Oral Presentation 6 (Abstracts 48-51)**

**NON-VIRAL VECTOR**

14:45-15:33, Room 3

Chairpersons: Hideyoshi Harashima, Yoshiro Niitsu

**48. HIGHER DENSITY CROSSLINKING STRUCTURE IN STAR VECTOR CAN ENHANCE GENE TRANSFECTION EFFICIENCY**

*Borovkov A., Zhou Y. M., Tatsumi E., Nemoto Y., Nakayama Y.*

**49. THE IMPORTANCE OF NARROWING OF POLYDISPERSITY IN STAR VECTOR ON GENE TRANSFECTION ACTIVITY**

*Borovkov A., Nemoto Y., Omori K., Zhou Y. M., Tatsumi E., Nakayama Y.*

**50. EFFICIENT LIVER-SPECIFIC siRNA DELIVERY SYSTEM BY BIONANOCAPSULE-LIPOSOME FUSION TECHNOLOGY**

*Oda Y., Yamada I., Konishi A., Kinoshita R., Sumitani K., Hizume S., Matsuzaki T., Kuroda S., Goh Y.*

**51. EFFICIENT IN VIVO DELIVERY OF SIRNA TO THE LIVER AND BRAIN BY CONJUGATION OF ALPHA-TOCOPHEROL**

*Piao W., Uno Y., Kuwahara H., Nishina K., Mizusawa H., Yokota T.*

## Day 2: July 10, 2009

### Oral Presentation 7 (Abstracts 52-60)

#### MOLECULAR TARGET-1

10:00-11:48, Room 2

Chairpersons: Hiromi Kumon, Hidetoshi Sumimoto

**52. DIFFERENT ROLES OF ROCK ISOFORM IN MALIGNANT GLIOMA CELLS**

*Inaba N., Ishizawa S., Kimura M., Watanabe M., Shibasaki T., Manome Y.*

**53. INHIBITION OF A MAPK SIGNAL IN CANCER CELLS ENHANCED SPECIFIC ANTI-TUMOR IMMUNITY BY INCREASED PRODUCTION OF CHEMOKINES**

*Kajihara T. I., Sumimoto H., Kawamura N., Kawakami Y.*

**54. STK24 IS A SIGNALING MOLECULE FOR CANCER-INDUCED IMMUNO SUPPRESSION THROUGH IL-10 AND TGF- $\beta$  1 PRODUCTION**

*Kawamura N., Sumimoto H., Goto Y., Takata M., Saida T., Kawakami Y.*

**55. Eg5 siRNA COMBINED WITH HVJ ENVELOPE SYNERGISTICALLY INDUCED CELL DEATH IN GLIOBLASTOMA**

*Matsuda M., Yamamoto T., Matsumura A., Kaneda Y.*

**56. ADENOVIRUSES EXPRESSING THE INTERFERON-LAMBDA3 GENE PRODUCED CYTOTOXIC EFFECTS AND INHIBITED PROLIFERATION OF ESOPHAGEAL CARCINOMA.**

*Tagawa M., Li Q., Kawamura K., Takei Y., Iwata F., Numazaki M., Yamaguchi N., Shimada H.*

**57. DOWN-REGULATION OF INHIBITION OF DIFFERENTIATION-1 VIA ACTIVATION OF ACTIVATING TRANSCRIPTION FACTOR3 AND SMAD REGULATES REIC/DICKKOPF-3-INDUCED APOPTOSIS**

*Kashiwakura Y.*

**58. A NOVEL STRATEGY OF CANCER GENE THERAPY BY TRANSCRIPTIONAL TARGETING OF AN ALLOGENEIC HISTOCOMPATIBILITY TRANSGENE**

*Kuwada E., Noguchi K., Seo N., Yamashiro H., Egawa K.*

**59. CYTOKINE-BASED LOG-SCALE EXPANSION OF FUNCTIONAL HUMAN DENDRITIC CELLS**

*Harada Y., Ueda Y., Kinoh H., Komaru A., Ogawa T. F., Furuya A., Inoue M., Hasegawa M., Ichikawa T., Yonemitsu Y.*

**60. ANTI-PERIOSTIN ANTIBODY DECREASES GROWTH AND METASTASIS OF BREAST CANCER**

*Kyutoku M., Taniyama Y., Morishita R.*

**Oral Presentation 8 (Abstracts 61-65)**

**GENETIC AND METABOLIC SYNDROME**

10:00-11:00, Room 3

Chairpersons: Tomomi Fujisawa, Tomohiro Katsuya

**61. FAS PROMOTER REGION GENE POLYMORPHISM (-670G/A) IS A RISK FACTOR OF MYOCARDIAL INFARCTION OCCURRENCE**

*Takemura Y., Hanasaki H., Fukuo K., Ohishi M., Onishi M., Yasuda O., Katsuya T., Rakugi H.*

**62. GENOME-WIDE ASSOCIATION STUDY IN JAPANESE POPULATION IDENTIFIES SUSCEPTIBLE LOCI FOR PERIPHERAL ARTERIAL DISEASE.**

*Koriyama H., Nakagami H., Katsuya T., Sugimoto K., Akasaka H., Saitoh S., Maeda S., Nakamura Y., Kaneda Y., Rakugi H., Morishita R., Shimamoto K., Ogihara T.*

**63. ASSOCIATION OF CAROTID ATHEROSCLEROSIS WITH GENETIC POLYMORPHISMS OF THE REGULATOR OF G-PROTEIN SIGNALING 2 GENE IN PATIENTS WITH HYPERTENSION AND IN THE GENERAL POPULATION**

*Kamide K., Kokubo Y., Horio T., Okamura T., Miyata T., Rakugi H., Kawano Y.*

**64. IMPAIRED MEMORY FUNCTION IN TIMP-3 DEFICIENT MICE**

*Yasuda O., Baba Y., Takemura Y., Mogi M., Horiuchi M., Fukuo K., Rakugi H.*

**65. AMELIORATION OF TYPE 2 DIABETES MELLITUS BY COMPENSATORY AUGMENTATION OF BETA CELL NUMBER/MASS IN A MOUSE MODEL OF NON-ALCOHOLIC FATTY LIVER DISEASE (NAFLD)**

*Fujisawa T., Fukai A. O., Sugimoto K., Nojima K., Shindo N., Shimoyoshi S., Yoshikawa Y., Sato Y., Shimomura I., Ikegami H., Rakugi H.*



## Oral Presentation 9 (Abstracts 66-70)

### CARDIOVASCULAR DISEASE

11:00-12:00, Room 3

Chairpersons: Kei Kamide, Osamu Yasuda

**66. Th17 CELLS, A NEW SUBSET OF CD4+T-CELLS, PLAYS AN IMPORTANT ROLE IN ANGIOGENIC RESPONSE TO HINDLIMB ISCHEMIA**

*Takahashi M., Hata T., Kawaguchi M., Kashima Y., Hida S., Izawa A., Iwakura Y., Taki S., Ikeda U.*

**67. POSSIBLE INVOLVEMENT OF AT2 RECEPTOR STIMULATION IN ADIPOCYTE DYSFUNCTION IN ATHEROSCLEROTIC MODEL MICE: STUDY USING RECEPTOR GENE KNOCKOUT MICE**

*Iwai M., Inaba S., Horiuchi M.*

**68. A MECHANISM OF ROBUST HEART TRANSDUCTION WITH RECOMBINANT ADENO-ASSOCIATED VIRUS TYPE 9 (AAV9), THE CARDIOTROPIC SEROTYPE**

*Kang Y., Kotchey N., Zahid M., Nakai H.*

**69. PDK1 AS A THERAPEUTIC TARGET FOR GENE THERAPY TO COORDINATE SURVIVAL PATHWAYS AND  $\beta$ -ADRENERGIC RESPONSE IN FAILING HEARTS**

*Akazawa H., Ito K., Komuro I.*

**70. INDUCED PLURIPOTENT STEM (iPS) CELL-DERIVED CARDIOMYOCYTE SHEETS TRANSPLANTATION HAS A THERAPEUTIC EFFECT IN ACUTE MYOCARDIAL INFARCTION IN MICE.**

*Miyagawa S., Miki K., Saito A., Uenaka H., Shimizu T., Okano T., Yamanaka S., Sawa Y.*

## Oral Presentation 10 (Abstracts 71-74)

### BRAIN AND KIDNEY

14:00-14:48, Room 1

Chairpersons: Yoshitaka Isaka, Takanori Yokota

**71. THE PROTECTIVE EFFECT OF FLUVASTATIN, A HMG-CoA REDUCTASE INHIBITOR, ON A $\beta$  ACCUMULATIONS IN THE BRAIN**

*Shinohara M., Sato N., Kurinami H., Takeuchi D., Takeda S., Noma M., Morishita R.*

- 72. ULTRASOUND-MEDIATED GENE TRANSFER OF HGF IMPROVED ABETA-INDUCED COGNITIVE IMPAIRMENT IN MICE ASSOCIATED WITH UPREGULATION OF BDNF, AND DOWNREGULATION OF OXIDATIVE STRESS.**

*Takeuchi D., Sato N., Kurinami H., Shimamura M., Takeda S., Shinohara M., Morishita R.*

- 73. SYSTEMIC DELIVERY OF INTERLEUKIN-10 BY AN AAV VECTOR SUPPRESSES PROGRESSIVE RENAL DISEASE IN AN ANIMAL MODEL OF METABOLIC SYNDROME**

*Ogura M., Urabe M., Ito T., Mizukami H., Kume A., Kusano E., Ozawa K.*

- 74. A SUPERAGONISTIC MONOCLONAL ANTIBODY FOR CD28 AMELIORATED CRESCENTIC GLOMERULONEPHRITIS IN WISTAR-KYOTO RATS**

*Takabatake Y., Li X. K., Miyasato K., Imai E., Hunig T., Takahara S., Rakugi H., Isaka Y.*

## **Oral Presentation 11 (Abstracts 75-79)**

### **HEART**

14:48-15:48, Room 1

Chairpersons: Yukihiro Saito, Yoshiaki Taniyama

- 75. NEUTRALIZED ANTIBODY AGAINST PERIOSTIN 1 IMPROVED CARDIAC DYSFUNCTION IN RAT ACUTE MYOCARDIAL INFARCTION MODEL: *PERIOSTIN-1* AS A NOVEL THERAPEUTIC TARGET FOR HEART FAILURE**

*Taniyama Y., Azuma J., Iekushi K., Sanada F., Dosaka N., Kusunoki H., Okayama K., Rakugi H., Morishita R.*

- 76. ZYXIN MEDIATES ACTIN FIBER REORGANIZATION IN EPITHELIAL-MESENCHYMAL TRANSITION AND CONTRIBUTES TO ENDOCARDIAL MORPHOGENESIS**

*Mori M., Nakagami H., Koibuchi N., Miura K., Takami Y., Koriyama H., Hayashi H., Sabe H., Mochizuki N., Morishita R., Kaneda Y.*

- 77. DOCKING PROTEIN GAB 1 IS ESSENTIAL FOR HGF-DEPENDENT ENDOTHELIAL SIGNALING AND ANGIOGENESIS AFTER HINDLIMB ISCHEMIA**

*Nakaoka Y., Shioyama W., Higuchi K., Arita Y., Sanada F., Taniyama Y., Morishita R., Kuroda T., Fujio Y., Takihara K. Y., Mochizuki N., Komuro I.*

- 78. DEFECT IN A HISTONE H3 LYSINE 36 TRIMETHYLTRANSFERASE WHSC1 CAUSES DISORDERED TRANSCRIPTION IN ES CELLS.**

*Ura K., Nimura K., Kaneda Y.*

**79. A HISTONE H3 LYSINE 36 TRIMETHYLTRANSFERASE WHSC1 LINKS TRANSCRIPTION FACTORS TO WOLF-HIRSCHHORN SYNDROME.**

*Nimura K., Ura K., Shiratori H., Kaneda Y.*

**Oral Presentation 12 (Abstracts 80-84)**

**MOLECULAR TARGET-2**

14:00-15:00, Room 2

Chairpersons: Masatoshi Tagawa, Teruhiko Yoshida

**80. ESTABLISHMENT OF A MOUSE MODEL FOR MLL-AF4 FUSION PROTEIN INDUCED LEUKEMIA**

*Tamai H., Miyake K., Shimada T., Inokuchi K.*

**81. CONSTRUCTION OF A NOVEL DNA DECOY THAT INHIBITS THE ONCOGENIC BETA-CATENIN/T-CELL FACTOR PATHWAY**

*Yamamoto H., Doki Y., Mori M.*

**82. GAP JUNCTION-MEDIATED BYSTANDER KILLING HIGHLIGHTS THE UTILITY OF THE TMPK/AZT SYSTEM FOR CANCER SUICIDE GENE THERAPY.**

*Sato T., Neschadim A., Medin J. A., Yanagisawa T.*

**83. IL-7 AND IL-15 ALLOW THE GENERATION OF SUICIDE GENE-MODIFIED ALLOREACTIVE SELF-RENEWING CENTRAL MEMORY HUMAN T LYMPHOCYTES.**

*Kaneko S., Mastaglio S., Bondanza A., Ponzoni M., Sanvito F., Aldrighetti L., Radrizzani M., La Seta-Catamancio S., Provasi E., Mondino A., Nagasawa T., Fleischhauer K., Russo V., Traversari C., Ciceri F., Bordignon C., Bonini C.*

**84. ANTAGONISM OF VEGF ACTIVITY IS CRITICAL TO STIMULATE ANTITUMOR IMMUNITY AGAINST PERITONITIS CARCINOMATOSA DURING DC-BASED CANCER IMMUNOTHERAPY**

*Sugiyama M., Kakeji Y., Tanaka S., Yoshida K., Morita M., Inoue M., Hasegawa M., Maehara Y., Yonemitsu Y.*

## Oral Presentation 13 (Abstracts 85-94)

### CANCER TARGETING-1

14:00-15:00, Room 3

Chairpersons: Hirofumi Hamada, Toshihiko Wakabayashi

**85. ENHANCEMENT OF THE ANTITUMOR ACTIVITY OF INTERLEUKIN-12 BY TARGETED ELECTROGENE TRANSFER THROUGH ANTI-HER2 SINGLE-CHAIN ANTIBODY IN A MURINE BLADDER TUMOR MODEL**

*Wu C. L., Tsai Y. S., Chen Y. F., Tsai H. T., Tzai T. S., Shiau A. L.*

**86. ENHANCEMENT OF ANTITUMOR ACTIVITY OF GAMMARETROVIRUS CARRYING *IL-12* GENE VIA GENETIC MODIFICATION OF ENVELOPE TARGETING HER2 RECEPTOR: A PROMISING STRATEGY FOR BLADDER CANCER THERAPY**

*Shiau A. L., Tsai Y. S., Chen Y. F., Tsai H. T., Tzai T. S., Wu C. L.*

**87. ANTI TGF- $\beta$  PANCREATIC CANCER GENE THERAPY WITH INFECTIVITY ENHANCED ADENOVIRUS EXPRESSING SOLUBLE TGF- $\beta$  RECEPTOR II**

*Hoshino S., Adachi Y., Brown E., Yamamoto M.*

**88. EFFECTIVE GENE THERAPY FOR BILIARY CANCERS BY Z33 FIBER MODIFIED ADENOVIRUS VECTOR WITH TUMOR SPECIFIC ANTIBODIES**

*Kawashima R., Abei M., Nakamura K., Fukuda K., Murata T., Hyodo I., Hamada H., Obata Y., Yokoyama K. K.*

**89. GENE THERAPY FOR MELANOMA WITH FZ33-ADENOVIRUS AND ANTI-MCSP ANTIBODIES**

*Sakuragi N., Nakamura K., Hirai S., Kato K., Hamada H.*

### CANCER TARGETING-2 AND CLINICAL GENE THERAPY

15:00-16:00, Room 3

Chairpersons: Yoshikatsu Eto, Masafumi Onodera

**90. TARGETING OF GLIOMA CELLS USING T-CELLS WITH TUMOR-SPECIFIC CHIMERIC T-CELL RECEPTORS**

*Ohno M., Natsume A., Yoshikawa K., Wakabayashi T.*

**91. INTERLEUKIN-13 RECEPTOR A 2 AS A MOLECULAR TARGET FOR MELANOMA.**

*Nakamura K., Kato K., Sakuragi N., Hamada H.*

**92. EGFR-TARGETED SELECTIVE GENE THERAPY FOR NON-SMALL CELL LUNG CANCER (NSCLC)**

*Yamaguchi M., Nakamura K., Sakuragi N., Kato K., Hamada H.*

**93. A REPORT OF THE PROGRESS FOR X-CGD GENE THERAPY IN JAPAN**

*Okada M. I., Okuyama T., Kobayashi S., Kawai T., Horiuchi Y., Kiyokawa N., Li X. K., Fujimoto J., Otsu M., Kume A., Ariga T., Mizukami T., Nuno H., Kuratsuji T., Malech H. L., Kang E. M., Onodera M.*

**94. EVALUATION OF AN AUTOMATED CELL CULTURE SYSTEM FOR THE PRODUCTION OF THE VIRAL SUPERNATANT USED IN GENE THERAPY CLINICAL TRIALS**

*Inaki M., Onodera M., Tahara H., Wakitani S., Watakabe K., Ito S., Uemura T.*

**Day 3: July 11, 2009**

**Oral Presentation 14 (Abstracts 95-104)**

**STEM CELL-1**

9:50-10:50, Room 1

Chairpersons: Kazuhiro Ikenaka, Yoshikazu Sugimoto

**95. KINETICS AND EFFECT OF INTEGRIN EXPRESSION ON HUMAN CD34+ CELLS DURING MLV-DERIVED RETROVIRAL TRANSDUCTION WITH A RECOMBINANT FIBRONECTIN FOR STEM CELL GENE THERAPY**

*Horiuchi Y., Onodera M., Miyagawa Y., Sato B., Onda K., Katagiri Y. U., Okita H., Okada M., Otsu M., Kume A., Okuyama T., Fujimoto J., Kuratsuji T., Kiyokawa N.*

**96. IMPROVED ENGRAFTMENT OF GENE-MODIFIED HSC AFTER CO-TRANSPLANTATION WITH MSC IN NON-HUMAN PRIMATES**

*Masuda S., Ageyama N., Shibata H., Obara Y., Ikeda T., Takeuchi K., Ueda Y., Ozawa K., Hanazono Y.*

**97. INTERFERON GENE TRANSFER ENHANCES EFFECTIVE ANTITUMOR IMMUNITY IN EARLY PERIOD AUTOLOGOUS HEMATOPOIETIC STEM CELL TRANSPLANTATION**

*Narumi K., Kobayashi A., Kondoh A., Yoshida T., Aoki K.*

**98. MECHANISMS OF MSC (MESENCHYMAL STEM/STROMAL CELL) ACCUMULATION AT TUMOR SITES**

*Uchibori R., Mizuguchi H., Urabe M., Mizukami H., Kume A., Ozawa K.*

**99. THERAPEUTIC EFFECT OF GENETICALLY ENGINEERED MESENCHYMAL STEM CELLS IN RAT EXPERIMENTAL LEPTOMENINGEAL GLIOMA MODEL**

*Namba H., Gu C., Li S., Tokuyama T., Yokota N.*

**STEM CELL-2**

10:50-11:50, Room 1

Chairpersons: Yutaka Hanazono, Hiroaki Mizukami

**100. BLISTER-DERIVED FACTORS RECRUIT PDGFR-ALPHA-POSITIVE CELLS FROM BONE MARROW TO REGENERATE INJURED SKIN IN GENETIC BLISTERING SKIN DISEASE, RDEB**

*Tamai K., Yamazaki T., Chino T., Kaneda Y.*

**101. BONE MARROW CELL TRANSFER INTO FETAL CIRCULATION CAN AMELIORATE GENETIC SKIN DISEASES BY PROVIDING FIBROBLASTS TO THE SKIN AND INDUCING IMMUNE TOLERANCE**

*Chino T., Tamai K., Yamazaki T., Kaneda Y.*

**102. IN VITRO GENERATION OF THE HEMATOPOIETIC PROGENITOR/STEM CELLS FROM TAL1/SCL GENE-TRANSDUSED HUMAN ES CELLS**

*Kurita R., Kageyama R., Miura Y., Ozawa M., Hiramoto T., Yokoo T., Okada M., Suehiro Y., Inoue H., Takahashi A., Tani K.*

**103. GENERATION OF INDUCED PLURIPOTENT STEM CELLS FROM MICE WITH PRIMARY IMMUNODEFICIENCY DISEASES: TOWARDS iPS CELL-BASED GENE THERAPY FOR GENETIC DISEASES**

*Okabe M., Takeuchi Y., Otsu M., Nakauchi H.*

**104. RETROVIRUS INTEGRATION SITE ANALYSIS OF HUMAN INDUCED PLURIPOTENT STEM (iPS) CELLS**

*Sugimoto Y., Iwasaki K., Yamahara Y., Katayama K., Noguchi K., Mitsuhashi J., Akamatsu W., Okano H.*

## Oral Presentation 15 (Abstracts 105-114)

### GENETIC DISEASE-1

9:50-10:50, Room 2

Chairpersons: Toya Ohashi, Torayuki Okuyama

**105. LIVER-TARGETED GENE THERAPY WITH A SELF-COMPLEMENTARY AAV AMELIORATED BRAIN AMINERGIC DEFICIT IN PHENYLKETONURIA MICE**

*Yagi H., Sanechika S., Ichinose H., Mizukami H., Ogura T., Urabe M., Hamada H., Yoshikawa H., Ozawa K., Kume A.*

**106. NEUTRALIZING ANTIBODY AGAINST VECTOR CAPSID AFFECTS LIVER-MEDIATED FACTOR IX EXPRESSION IN NON-HUMAN PRIMATES USING AAV VECTORS**

*Mizukami H., Mimuro J., Ishiwata A., Ono F., Yagi H., Urabe M., Kume A., Terao K., Yasutomi Y., Sakata Y., Ozawa K.*

**107. INCREASING THE UREAGENIC CAPACITY OF *spf<sup>ash</sup>* MOUSE HEPATOCYTES *IN VIVO*: TOWARDS GENE THERAPY FOR ORNITHINE TRANSCARBAMYLASE DEFICIENCY**

*Kok C., Cunningham S., Carpenter K., Kuchel P., Alexander I.*

**108. EFFECTIVE AAV8 VECTOR-MEDIATED MICRODYSTROPHIN TRANSDUCTION OF SKELETAL MUSCLES IN NORMAL PRIMATE**

*Ishii A., Shin J. H., Katakai Y., Ono F., Okada T., Takeda S.*

**109. DEVELOPMENT OF ZINC-FINGER NUCLEASES TARGETING THE HUMAN *HPRT* LOCUS**

*Suzuki K., Kishimoto A., Mitsui K., Mitani K.*

### GENETIC DISEASE-2

10:50-11:50, Room 2

Chairpersons: Hiroyuki Nunoi, Makoto Otsu

**110. CELL THERAPEUTIC APPROACH TO DUCHENNE MUSCULAR DYSTROPHY USING MYOGENIC DIFFERENTIATION OF MULTIPOTENT MESENCYMAL STROMAL CELLS IN DOG**

*Kasahara Y. N., Kinoh H. H., Shin J. H., Nishiyama A., Hosoyama S. O., Maeda M. W., Nakamura A., Okada T., Takeda S.*

**111. PRECLINICAL STUDIES TO IMPROVE THE EFFICACY OF STEM CELL GENE THERAPY FOR X-CGD**

*Takeuchi Y., Otsu M., Onodera M., Kume A., Nakauchi H.*

**112. ADENO-ASSOCIATED VIRUS (AAV) TYPE-8 MEDIATED SYSTEMIC NEONATAL GENE THERAPY FOR HYPOPHOSPHATASIA**

*Matsumoto T., Yamamoto S., Miyake K., Miyake N., Orimo H., Shimada T.*

**113. SUCCESSFUL TREATMENT OF HANDS IN A PATIENT WITH RECESSIVE EPIDERMOLYSIS BULLOSA USING NEW SKIN EQUIVALENT WITH AMNION**

*Yang L., Shirakata Y., Nakaoka H., Hashimoto K.*

**114. RECESSIVE DYSTROPHIC EPIDERMOLYSIS BULLOSA: MUTATIONAL ANALYSIS TOWARD GENE THERAPY**

*Nakano H., Tamai K., Sawamura D.*

**Oral Presentation 16 (Abstracts 115-120)**

**ONCOLYTIC VECTOR-2**

13:00-14:12, Room 2

Chairpersons: Makoto Inoue, Masaaki Mizuno

**115. BIOKNIFE (UROKINASE-TARGETED ONCOLYTIC SENDAI VIRUS VECTOR) AS AN EFFECTIVE TOOL TO TREAT ORTHOTOPIC MODEL OF HUMAN MALIGNANT PLEURAL MESOTHELIOMA.**

*Morodomi Y., Yano T., Kinoh H., Ito K., Shoji F., Yoshida K., Ueda Y., Inoue M., Hasegawa M., Maehara Y., Yonemitsu Y.*

**116. ENGINEERED MEASLES VIRUS MV-NPL AS A NOVEL ONCOLYTIC THERAPY**

*Okazaki T., Meng X., Inoue H., Takahashi A., Sakaguchi G., Eto M., Naito S., Nakamura T., Yanagi Y., Tani K.*

**117. ENHANCED ANTITUMOR EFFICACY OF THIRD GENERATION ONCOLYTIC HSV-1 ARMED WITH SOLUBLE B7-1 IN MICE HARBORING POORLY IMMUNOGENIC NEUROBLASTOMA**

*Tsurumaki Y., Fukuhara H., Homma Y., Ino Y., Todo T.*



**118. A PROSTATE-TARGETED TSTA ONCOLYTIC ADENOVIRAL VECTOR EXHIBITING EFFICIENT TUMOR CELL KILLING**

*Sato M., Powell R., Sanjiv G. S., Carey M., Wu L.*

**119. MIDKINE PROMOTER-DRIVEN ONCOLYTIC ADENOVIRUS ACHIEVES EFFECTIVE TARGETING OF HUMAN MALIGNANT MESOTHELIOMA CELLS IN VITRO AND IN VIVO**

*Kubo S., Kawasaki Y., Yamamoto H., Tagawa M., Kasahara N., Okamura H.*

**120. IMPROVED PRODRUG ACTIVATOR GENE THERAPY FOR CANCER**

*Gruber H., Perez O., Ibanez C., Pertchuk D., Gessner D., Robbins J., Kasahara N., Logg C. R., Jolly D. J.*

**Oral Presentation 17 (Abstracts 121-125)**

**INFECTIOUS AND INFLAMMATORY DISEASE**

13:00-14:00, Room 3

Chairpersons: Akihiro Kume, Yasuji Ueda

**121. NOVEL THERAPEUTIC AND PROPHYLACTIC VACCINE (HVJ-ENVELOPE/HSP65 DNA+IL-12 DNA) AGAINST TUBERCULOSIS USING CYNOMOLGUS MONKEY**

*Okada M., Kita Y., Nakajima T., Kanamaru N., Hashimoto S., Nagasawa T., Kaneda Y., Yoshida S., Nishida Y., Nakatani H., Takao K., Kishigami C., Nishimatsu S., Matsumoto M., Tan E. V., Saunderso P., Sakatani M.*

**122. VIRAL ELIMINATION BY A SELECTIVE EXPRESSION OF IRF7 IN HUMAN HEPATOCYTES INFECTED WITH HCV**

*Wen X., Abe T., Taguwa S., Mori Y., Moriishi K., Matsuura Y.*

**123. HIV-1 CO-RECEPTOR CCR5 KNOCKDOWN BY RNA INTERFERENCE IN VIVO IN THE NOD/SCID-HU BLT HUMANIZED MOUSE MODEL.**

*Shimizu S., Hong P., Pokomo L., Boyer J., Kittipongdaja P., Chen A., Bristol G., Galic Z., Zack J. A., Chen I. S. Y., Lee B., An D. S.*

**124. INHIBITION OF STAT3 SIGNALING AS A NOVEL WAY TO ANTI-PSORIASIS**

*Takaishi M., Miyoshi K., Nakajima K., Sano S.*

**125. ROLE OF RIBBON TYPE NFκB DECOY OLIGODEOXYNUCLEOTIDES ON  
INFLAMMATORY BOWEL DISEASE MODEL RATS.**

*Ozaki K., Makino H., Miyake T., Takeya Y., Morishita R.*