

Research on Health Sciences focusing on Drug Innovation

List of Projects, fiscal year 2004

Theme No.	Principal Investigator			Title of Project
	Name		Institute, University, or Equivalent	
	Last	First		
KH11001	Kawanishi	Toru	National Institute of Health Sciences	Development of the methods for imaging, measuring and analyzing cell and tissue injury using BioPhotonics
KH11002	Ogata	Tsutomu	National Research Institute for Child Health and Development	Clarification of growth-controlling mechanisms and development of novel therapeutic methods for growth failure
KH11003	Matsuda	Junichiro	National Institute of Infectious Diseases	Study on the development of new reproductive biotechnologies for health sciences
KH21004	Mochizuki	Naoki	National Institute of Infectious Diseases	Development of antagonists for S1P3 involved in atherosclerosis and thrombosis
KH21005	Tanoue	Akito	National Research Institute for Child Health and Development	Functional analysis for receptors with transgenic animals
KH21006	Inoue	Kazuhide	National Institute of Health Sciences	Research for the functions of Purinergic receptors in pain sensation under pathophysiological condition
KH21007	Momoi	Takashi	National Institute of Neuroscience	The pathogenesis of the conformation disease and development of the compound useful for its therapy
KH21008	Ogawa	Seishi	University of Tokyo	Exploring molecular targets of novel therapeutics in leukemia/lymphoma using genome-wide CGH analysis
KH21009	Hanada	Kentaro	National Institute of Infectious Diseases	Metabolism and functions of lipids and their application to development of anti-microbial drugs
KH21010	Kohsaka	Takao	National Center for Child Health and Development	Substances produced by Fibroblast and by JAG1 gene correlated with Aggravated Mechanism of Fibrosis and Inflammation through macrophage activity and development
KH21011	Wakamiya	Nobutaka	Asahikawa Medical College	Study of host defense mechanism with collectin in blood vessel
KH21012	Yano	Tomohiro	National Institute of Health and Nutrition	Exhaustive analysis on tumor-suppressive effects of connexin genes to establish New cancer prevention and therapy

KH21013	Abe	Jun	National Research Institute for Child Health and Development	Molecular Mechanism of the Effects of High-dose Intravenous Immunoglobulin Infusion (IVIg) Therapy
KH21014	Fujimoto	Junichiro	National Research Institute for Child Health and Development	Role of sugar moiety during fertilization and early development
KH21015	Ezaki	Osamu	National Institute of Health and Nutrition	Regulation of gene expressions related to energy metabolism and their applications to find new drugs
KH21016	Nonogaki	Katsunori	Tohoku University	Molecular mechanisms of overeating and exploring the target gene for the treatment of overeating syndrome
KH21017	Tabira	Takeshi	National Institute for Longevity Sciences	Molecular mechanisms of chronic stress-induced depression and drug development
KH21018	Nakayama	Kohzo	Shinshu University	Functional analysis of the intracellular domain of APP to find molecular targets of medication for Alzheimer's disease
KH21019	Uede	Toshimitsu	Hokkaido University	Research of the mechanism of regulation of differentiation proliferation and cell death for B cells to develop new drugs
KH21020	Saito	Hirohisa	National Research Institute for Child Health and Development	The comparative orthologous gene expression database between human and mouse inflammatory cell types
KH21021	Nishijima	Masahiro	National Institute of Infectious Diseases	Studies on recognition and signal transduction of endotoxin and their application to medical treatments
KH21022	Suzuki	Tetsuro	National Institute of Infectious Diseases	Development of anti-hepatitis C virus drugs based on RNA-binding peptides
KH21023	Kasai	Masataka	National Institute of Infectious Diseases	Studies on the Differentiation of Peripheral Blood Stem Cells and the Application to the Development of Pharmaceutical Products
KH31024	Yoshioka	Sumie	National Institute of Health Sciences	Formulation strategy for poorly water soluble drugs utilizing high potentials of the amorphous state
KH31025	Goda	Yukihiro	National Institute of Health Sciences	Studies on quality assurance of Kampo prescriptions
KH31026	Hara-Kudo	Yukiko	National Institute of Health Sciences	Development of new rapid detection methods for food-borne pathogens and the evaluation methods
KH31027	Nohmi	Takehiko	National Institute of Health Sciences	Construction of high throughput humanized genotoxicity assays

KH31028	Yoshizato	Katsutoshi	Hiroshima University	Utilization of mice with human hepatocytes for the development of new medicines - Establishment of a method to collect bile from mice under non-restricted conditions
KH31029	Hiyama	Yukio	National Institute of Health Sciences	Development of Advanced Analytical Methods for Pharmaceutical Development and Manufacturing Controls
KH31030	Saito	Yoshiro	National Institute of Health Sciences	Development of genotyping and metabolomic methods for individualized drug therapy
KH31031	Yamaguchi	Teruhide	National Institute of Health Sciences	Study on the quality and safety of cellular therapy products
KH31032	Hayashi	Yuzuru	National Institute of Health Sciences	validation of marrow stromal cells and endometrial cells as a source of cell-based therapy Processing in Drug Innovation Science
KH31033	Masahiro	Tohkin	National Institute of Health Sciences	Evaluation of Human Pharmacokinetics for Proper use of Drugs
KH31034	Kawasaki	Nana	National Institute of Health Sciences	Studies on the characterization and quality control of biological products using proteomic and structural proteomic approaches
KH31035	Uchida	Eriko	National Institute of Health Sciences	Studies on Viral Safety of Biologicals
KH31036	Azuma	Junichi	Osaka University	The research for the clinical application of the pharmacogenomic information based on the clinical pharmacology
KH41037	Tsunawaki	Shohko	National Research Institute for Child Health and Development	Basic Research aiming anti-free radical therapy and its application for drug development
KH41038	Kaji	Ryuji	The University of Tokushima	Development of botulinum neurotoxin preparation for treating dystonia and spasticity with implications for establishing drug delivery system to motor neurons
KH51039	Fujiwara	Shigeyoshi	National Research Institute for Child Health and Development	Basic and clinical studies on DLI with cord blood lymphocytes
KH51040	Yasueda	Hiroshi	Sagamihara National Hospital	Development of new methods for assessment and control of indoor allergen exposure

KH51041	Wakita	Takaji	Tokyo Metropolitan Institute for Neuroscience	Establishment of Hepatitis C Virus infection and replication systems to develop effective anti-viral strategies
KH51042	Ishimi	Yoshiko	National Institute of Health and Nutrition	Prevention of osteoporosis by component based on an individuals constitution
KH51043	Yamamoto	Shigeki	National Institute of Health Sciences	Development of sensitive and rapid detection methods for food borne pathogenic bacteria from foods and the application for risk management of those pathogens
KH51044	Hirose	Masao	National Institute of Health Sciences	Demonstration of new functions from naturally-occurring food additives
KH51045	Ikeda	Yasuyuki	National Cardiovascular Center	Development of detection system for genomic known and unknown SNPs involved in lifestyle related disease using a novel reagent specific to mismatch DNA
KH51046	Matsumoto	Kenji	National Research Institute for Child Health and Development	The understanding and the regulation of the molecular mechanisms of the exacerbation in bronchial asthma and COPD as a molecule-cell system
KH51047	Takemori	Toshitada	National Institute of Infectious Diseases	New vaccine deliveries targeting on the mucosal immune system
KH51048	Hasegawa	Hideki	National Institute of Infectious Diseases	Development of new mucosal adjuvant and mucosal vaccine
KH51049	Matsuura	Yoshiharu	Osaka University	Development of advanced technology and new vaccine by using biotechnology
KH51050	Taguchi	Fumihiro	National Institute of Infectious Diseases	Development of anti-viral drugs by utilizing soluble form of viral receptors
KH51051	Kojima	Asato	National Institute of Infectious Diseases	Development of New Technologies and Vaccines
KH51052	Nishimaki-Mogami	Tomoko	National Institute of Health Sciences	Role of lipid transporters in control of lipoprotein metabolism
KH51053	Kiuchi	Fumiyuki	National Institute Of Health Sciences	Studies on Useful Plants Based on Metabolomics
KH51054	Takeda	Naokazu	National Institute of Infectious Diseases	Development of antiviral agents based on nucleic acids-containing nanocapsule
KH51055	Morikawa	Shigeru	National Institute of Infectious Diseases	Identification of virus and host cell genes necessary for replication of emerging and re-emerging viruses by using novel siRNA expression library
KH51056	Suzuki	Takayoshi	National Institute of Health Sciences	Studies on new diagnostic tools, such as protein chips or DNA microarrays, for their reliability and evaluation

KH51057	Niimi	Shingo	National Institute of Health Sciences	Fundamental study about the development of therapeutic medicine of ischemic disorder by regulation of angiogenesis
KH51058	Fukuhara	Kiyoshi	National Institute of Health Sciences	Development of clinically useful antioxidants
KH61059	Tutiya	Toshie	National Institute of Health Sciences	Development of tissue engineered medical products using stem cell etc. and the standardization of the evaluation technology for those products
KH61060	Kishida	Akio	Tokyo Medical and Dental University	Development of Tissue Engineering Scaffold Derived from Biological Tissue using a Novel Technology
KH61061	Yuo	Akira	International Medical Center of Japan	Novel non-feeder and serum free culture systems for the maintenance of primate embryonic stem cells and their hematopoietic differentiation
KH61062	Shibuya	Noritoshi	Nagasaki Medical Center of Neurology	New development of adsorbent for disease-specific T cells
KH71063	Inui	Ken-ichi	Kyoto University	Establishment of personalized immunosuppressive therapy based on the genetic informations using intestinal and hepatic tissues of liver transplant patients
KH71064	Umezawa	Akihiro	National Research Institute for Child Health and Development	Validation of marrow stromal cells and endometrial cells as a source of cell-based therapy
KH71065	Matsuura	Nariaki	Osaka University	Study on the effectiveness of human tissue resources for new drug discovery and novel diagnostic development - establishment of network for efficient operation of human tissue bank-
KH71066	Enosawa	Shin	National Research Institute for Child Health and Development	Construction of system for research use of human liver cell/tissue in drug innovation based on Health Science Research Resource Bank
KH71067	Morikawa	Kaoru	National Institute of Health Sciences	Analysis and Evaluation of Published Large-scale Clinical Data for Establishing Drug Safety and Efficacy Based on EBM
KH71068	Honma	Masamitsu	National Institute of Health Sciences	Establishment of a humanized genotoxicity test system its validation
KH71069	Nagamori	Seishi	Kyorin University	Development of a Novel Biosensor for the Evaluation of Metabolism and Toxicity of New Drugs Using Highly Functional Human Cell Lines Integrated into Cell-Chip and Nanosensor

KH71070	Nishio	Kazuto	National Cancer Center	Identification of the molecules related to active anticancer agents on solid tumors by chemical genomics and development of next generation of drugs targeted to the molecules
KH71071	Ohno	Yasuo	National Institute of Health Sciences	Use of surgically removed human materials for research on individual medication and drug metabolism studies considering genetic polymorphism
KH12072	Noguchi	Hiroshi	University of Shizuoka	Development of antiviral drugs for next generation
KH22073	Kunugi	Hiroshi	National Institute of Neuroscience	High-throughput SNP analyses and physiological roles of candidate genes in functional psychoses
KH32074	Nagai	Yoji	Translational Informatics Center	Construction of Cost-saving and Quality-assured Infrastructure for Large Scale Clinical Trials, Based on Information Technology
KH42075	Yukifumi	Nawa	University of Miyazaki	Development of the therapeutic network for tropical and parasitic diseases
KH52076	Asanuma	Hideki	Tokai University	Towards establishing production of single chain antibodies against influenza viruses
KH72077	Sawada	Yasufumi	Kyushu University	Quantitative evaluation of the transplacental transfer and fetotoxicity of drugs by using human placental preparations
KH72078	Kobayashi	Shinichi	St. Marianna University School of Medicine	Promotion of banking efficacy and study resources quality in the human tissue providing medical institution
KH13301	Nishida	Motohiro	Kyushu University	Study for the development of a novel screening system of arrhythmia-inducing drugs
KH13302	Kawabata	Kenji	National Institute of Health Sciences	Development of an efficient adenoviral vector system for embryonic stem (ES) cells
KH23303	Masuda	Satohiro	Kyoto University	Clarification of molecular mechanisms of progressive renal failure and construction of protective methods to dysfunctions in the kidney
KH23304	Nakamichi	Kazuo	National Institute of Infectious Diseases	Molecular analyses of microglial activation via Toll-like receptor 3 (TLR3) signaling for the development of high throughput screening assays for discovering therapeutic agents in brain inflammation

KH23305	Arai	Satoru	National Institute of Infectious Diseases	Understanding the vector requirements of mosquito-borne viruses and developing new drugs
KH23306	Isawa	Haruhiko	National Institute of Infectious Diseases	Characterization, functional analyses and exploitation of bioactive molecules from the salivary glands of blood sucking insects and ticks
KH23307	Okita	Hajime	National Research Institute for Child Health and Development	Regulation of embryonic stem cell differentiation by controlling the apoptosis related gene, EAT
KH33308	Hashimoto	Ryota	National Institute of Neuroscience	Efficacy and safety evaluation of psychotropic drugs by single nucleotide polymorphisms (SNPs) analysis
KH33309	Kobayashi	Kaoru	Chiba University	In silico prediction for induction of drug-metabolizing enzymes and drug-transporters to improve the prediction of pharmacokinetics in human
KH33310	Tanabe	Koichi	National Institute of Infectious Diseases	Drug transport mechanism of ATP binding cassette (ABC) transporter
KH53312	Iyoda	Sunao	National Institute of Infectious Diseases	Identification and characterization of virulence genes distributed in the LEE-negative enterohemorrhagic <i>Escherichia coli</i> : evaluation of their potential as an epidemiological marker and/or a vaccine candidate
KH53313	Okada	Naoki	Kyoto Pharmaceutical University	Development of novel cancer immunotherapy based on function reinforcement of dendritic cells by gene modification
KH53314	Kojima	Shinsuke	Kyoto University	Development of diagnostic algorithm and interinstitutional network toward decreasing mortality rate in cancer using whole-body PET scan screening
KH53315	Umeyama	Takashi	National Institute of Infectious Diseases	Global gene disruption strategy for elucidation of the molecular mechanisms underlying fungal pathogenicity and its application to novel antifungal drug development
KH63316	Tsutsumi	Yasuo	National Institute of Health Sciences	Development of a novel innovation system of PTDs and drug carriers
SH14401	Kobayashi	Eiji	Jichi Medical School	International Collaboration on Transgenic Rat Resources
SH24402	Nakayama	Toshinori	Chiba University	Establishment of Immunotherapy for Arthritis by Inhibiting CD69 Function

SH24403	Yamamura	Takashi	National Institute of Neuroscience	Collaborative studies on analysis of glycolipid-reactive T cell responses in health and disease
SH24404	Fuchino	Hiroyuki	National Institute of Health Sciences	Exploring the lead compound for antileishmanial agent from natural medicine and mechanistic study of its action
SH24405	Niimi	Masakazu	National Institute of Infectious Diseases	Molecular analysis of antifungal resistance and identification of drug target in pathogenic fungi
SH24406	Abe	Kenji	National Institute of Infectious Diseases	International joint collaboration on various factors related to pathogenicity of HBV/HCV infections and resistance to antivirals based on difference of race and viral genome
SH34407	Yamada	Masami	National Institute of Health Sciences	The mechanism of genome instability induced by oxidative stress
SH34408	Hara	Takahiro	The Tokyo Metropolitan Institute of Medical Science	Risk assessment of hematopoietic stem cell genes for leukemia induction
SH44409	Nishino	Ichizo	National Institute of Neuroscience	Elucidation of pathomechanism and development of therapy of distal myopathy with rimmed vacuoles
SH44410	Hashimoto	Hiroshi	Juntendo University	Epidemiological study on clinical and pathological presentations of ANCA-associated systemic vasculitis in Japan and Europe
SH54411	Yamamoto	Saburo	National Institute of Infectious Diseases	Bacteriological and Immunological Study on Pulmonary Tuberculosis in Guinea pig Model
SH54412	Inoue	Naoki	National Institute of Infectious Diseases	Development and applications of reporter cell lines for screening of anti-herpesvirus drugs and of drug-resistant strains
SH64413	Mori	Yuichi	Mebiol Inc.	Development of Synthetic Substrata for Vitreous Cartilage Regeneration and for Bone Fracture Therapy
KA11501	Nozaki	Tomoyoshi	National Institute of Infectious Diseases	Research on the Development of New Chemotherapeutics against with HIV infection
KA11502	Ishizaka	Ukihito	International Medical Center of Japan	Identification and application of compounds inhibiting viral production from latent infection of HIV-1

KA21503	Umeda	Mamoru	Nissui Pharmaceutical co. Ltd	Development of HIV-1 Defense Vaccine
KA31504	Shimizu	Norio	Tokyo Medical and Dental University	Development of human lymphoid follicle in code blood cell-transplanted immunodeficiency mice: model system for AIDS research
KA31505	Takahashi	Hidehiro	National Institute of Infectious Diseases	Drug development based on the nuclear export mechanism of genomic RNA of HIV-1 and influenza virus
KA13701	Fujimuro	Masahiro	Hokkaido University	Studies on molecular basis of herpesvirus latency and development of antiviral therapy
SA14801	Mitsuya	Hiroaki	Kumamoto University	Development of new-generation protease inhibitors (PI) that are potent against multi-PI-resistant HIV-1 variants
SA14802	Kiso	Yoshiaki	Kyoto Pharmaceutical University	Development of resistance-surmountable AIDS therapeutic drugs based on analysis of interaction with enzymes
SA14803	Yokota	Yasuko	National Institute of Infectious Diseases	Studies on genetical and immunological factors contributing to the control of AIDS progression
SA14804	Baba	Masanori	Kagoshima University	Novel nucleoside reverse transcriptase inhibitors active against multidrug-resistant HIV-1
SA14805	Kato	Ikunoshin	Takara Bio Inc.	Development of vector to regulate HIV gene expression in HIV/AIDS gene therapy, development of method for large scale GMP-level purification of retroviral vector, and development of closed system for gene transduction
SA14806	Akagawa	Kiyoko	National Institute of Infectious Diseases	Development of new drugs against AIDS encephalopathy
SA24807	Miyazawa	Masaaki	Kinki University	Molecular identification of the host genes that confer spontaneous resistance against mouse and human retroviral infections and their application to HIV vaccine development
SA24808	Takiguchi	Masafumi	Kumamoto University	A study of HIV-1 vaccine that induces cellular immunity
SA24809	Yamamoto	Naoki	National Institute of Infectious Diseases	Establishment of the clinical evaluation systems for the prime/boost AIDS vaccines targeting induction of cellular immunity

SA24810	Mori	Kazuyasu	National Institute of Infectious Diseases	Development on vaccine and immunological therapy to activate CD4 T cell function
SA34811	Mori	Toru	Japan Anti-Tuberculosis Association	Development of the new chemotherapy system for the treatment of AIDS/Mycobacteriosis