

-NMRC JOINT GRANT CALL (2007)

RESULTS

S/N	Title	Host Inst	PI
1	Comparative Studies of the Structure and Adhesion Properties of the α L β 2, α M β 2, α X β 2 integrins, and the crystallographic studies of the β 2 and β 3 integrins.	NTU	Alex Law
2	Malaysia-Singapore ALL 2007 Study - A Risk-Stratified Multi-Centre Childhood Acute Lymphoblastic Leukaemia Study Incorporating Pharmacokinetics/ Pharmacodynamic Study of Vincristine	NUS	Allen Yeoh Eng Juh
3	Assessment and Training System for Micromanipulation Tasks in Surgery	NTU	Ang Wei Tech
4	Development and Validation of a New Rapid Method for Detection of Drug Resistance in <i>Mycobacterium Tuberculosis</i>	NCC	Ann Lee Siew Gek
5	<i>C. elegans</i> as a Model System for the Investigation of Mitochondrial DNA Mutations in Ageing.	NUS	Barry Halliwell
6	Regulation of Intracellular pH, a Novel Mechanism for the Cardioprotection Induced by Hydrogen Sulfide	NUS	Bian Jinsong
7	Manipulating the Reactive Oxygen Species (ROS) Status as a Novel Therapeutic Strategy in Eliminating Cancer Stem Cells in Human Adult Malignant Glioma	NNI	Carol Tang
8	Functional Roles of Ff1b in the Embryonic Development and Maintenance of the Zebrafish Interrenal	NUS	Chan Woon Khiong
9	Gene-silencing Fibrous Scaffolds for Regenerative Medicine	NTU	Chew Sing Yian
10	Medakafish as a Model for Human Bone Disorders: The Role of Osterix and SOST in Controlling Bone homeostasis	NUS	Christoph Winkler
11	Interplay of Centrioles in Co-ordination of Organelle Biogenesis and Cell Division in <i>Trypanosoma brucei</i>	NUS	Cynthia He Yingxin
12	Investigating the Role of <i>SLC4A11</i> Gene in the Corneal Endothelium in Health and Disease Using RNA Interference (RNAi).	SERI	Eranga Vithana
13	The Role of the Nucleus Incertus in Antipsychotic Drug-induced Weight Gain	NUS	Gavin Stewart Dawe

14	Characterization Of Isthmin, A Novel Secreted Antiangiogenic Protein In Cancer and Embryonic Development	NUS	Ge Ruowen
15	Functional Investigation of Liver Tumor Regulated Genes and Generation of Transgenic Liver Tumor Models in Zebrafish	NUS	Gong Zhiyuan
16	Genetic and Functional Analysis of Gastrokine 1: A Novel Candidate Biomarker for Gastric Cancer	NCC	Ho Meng Fatt
17	Development of a Functional Tissue-Engineered Bone-Ligament-Bone Graft with Novel Fixation Device to Bone Tunnels for ACL Reconstruction	NUS	James Goh Cho Hong
18	Exploring the Structure and Function of Trans-encoded MHC's	NUS	Kim Chu Young
19	The Regulation of Actin Cytoskeleton and Cellular Functions by POPX2 and its Partners	NTU	Koh Cheng Gee
20	Crystal Structure Determination and Functional Characterization of Two Oncogenic Kinases, NPM/ALK and BRK, Involved in Malignant Transformation of T and B Lymphocytes in Lymphoma	NUS	Kunchithapadam Swaminathan
21	Synthesis of Nitrogen-containing Heterocycles as Potential Therapeutic Agents for the Management of Central Nervous System Disorders	NUS	Lam Yulin
22	Generating A High Quality Immortal Mesenchymal Stem Cell Line for Chondrogenesis	NUS	Lee Eng Hin
23	The <i>Ex Vivo</i> Expansion of Umbilical Cord Stem Cells for Ocular Surface Tissue Regeneration	SNEC	Leonard Ang Pek Kiang
24	Studies of a Novel Secretion System (T6SS) of <i>Aeromonas hydrophila</i> and <i>Edwardsiella tarda</i> and Therapeutics Applications to Disarm Pathogens	NUS	Leung Ka Yin
25	Novel Tyrosine Kinase Substrates of Oncogenic EGFR Signaling	NUS	Lim Yoon Pin
26	Regulation of T cell Development by Annexin-1: Importance in the Development of Asthma	NUS	Lina Lim Hsiu Kim
27	Functional Characterization of BNIP-H (Caytaxin) and its Novel Cellular Targets in Regulating Neuritogenesis and Production of Neurotransmitters	NUS	Low Boon Chuan

28	Exploring DNA-Cleaving Activities of Varacin C and its Analogues and their Potential Uses in Cancer Therapy	NUS	Lu Yixin
29	New anticoagulants from Snake Venoms: Structure-Function Relationships and Mechanisms of Action	NUS	Manjunatha Ramachandra Rao Kini
30	Understanding Roles of Anaphase-Promoting Complex (APC) in Acute Myeloid Leukemia (AML) development	NUS	Marito Araki
31	MicroRNA Processing and Enhancer Function in the Control of Hox Gene Expression	NTU	Mark Featherstone
32	Phagosome Lipidomics and Autoimmunity Associated with FcγRIIb Polymorphism in Humans	NUS	Markus R Wenk
33	Characterization of Genetic and Epigenetic Mechanisms that Regulate Cachectic Muscle Wasting	NUS	Mridula Sharma
34	Enabling Phosphoproteome Analysis with Mass Spectrometry in Elucidating Signalling Pathways in Cancer and Immunity	NTU	Newman Sze Siu Kwan
35	Mycobacterial Versus Human HSP70: A Detailed Comparison of their Immunological Activities.	NUS	Paul A. MacAry
36	Unravelling the Functional Roles of IL-13Ra2 in Promoting the Tumorigenesis of Human Gliomas	NCC	Paula Lam Yeng Po
37	Regulation of the TAK1 and MEKK3 Protein Kinases in the Inflammatory Response.	NTU	Peter Cheung
38	Biochemical and Functional Analysis of the Newly Discovered DNA (dRP) Lyase Activity of Proto-oncoproteins HMGA: Implications for Genome Stability in Human Neoplasias and Stem Cells.	NTU	Peter Droge
39	Understanding the Functional Role of the STEVOR Multigene Family in the Human Parasite <i>Plasmodium falciparum</i>	NTU	Peter Rainer Preiser
40	Interaction of Quadruplex DNA with Proteins and Small Molecules	NTU	Phan Anh Tuan
41	Nuclear Phosphoinositide Signaling and Chromatin Remodelling Factors and their role in Cancer	NCC	Philip Karuman

42	Development and <i>In-vivo</i> Evaluation of SUWA Tissue Engineered Esophagus	NTU	Sandy Chian Kerm Sin
43	Cyclin Dependent Kinase 5 Phosphorylation of dCatenin: Implications in Synaptic Organisation and Function in Neurodevelopment and Neurodegeneration.	NUS	Sashi Kesavapany
44	Project to Study the Effect of Bcl-2 Expression on Mitochondrial Physiology in Tumor Cells	NUS	Shazib Pervaiz
45	Structural and Functional Characterization of Ribosome Modifying Methyltransferases that Confer Antibiotic Resistance in Disease Causing Microorganisms	NUS	Sivaraman Jayaraman
46	Iron Transporter, DMT1, Transgenic Mouse Model of Oxidative Stress: Implications in Parkinson's Disease	NUS	Soong Tuck Wah
47	The Role of Interferon Regulatory Factors in Regulating the Expression of NKG2D Ligands	NUS	Stephan Gasser
48	The Role of Polycomb Group Protein Ezh2 in Immune Response of Dendritic Cells	NTU	Su I Hsin
49	Transplantation of a Prefabricated Neovascularised Segmental Pancreas into a Diabetic Rat Recipient	SGH	Tan Bien Keem
50	The Development of Selective Inhibitors based on the Structural and Mechanistic Studies of Cystathionine-g-lyase (CSE)	NUS	Tan Choon Hong
51	<i>In Vivo</i> Vascularization and Maturation of Bioartificial Grafts for Organ Restoration	NUS	Theodoros Kofidis
52	Characterization of Mechanisms through which Cullin-based E3 Ubiquitin Ligases are Regulated in Health and Disease	NUS	Thilo Hagen
53	Mechanistic Studies of Epidermal Growth Factor Receptor and Cdc42 Signalling <i>in vivo</i> Using Fluorescence Spectroscopy Techniques.	NUS	Thorsten Wohland
54	Contribution of Lymphatic Function in Atherosclerosis and its Modulation by Lipid Mediators	NUS	Veronique Angeli
55	Combined Modality Chemo-antiangiogenic Therapy for Brain Tumor through Functional Sustained-Released Depots and <i>in vivo</i> microPET Imaging	NUS	Wang Chi Hwa

56	Hydrogen Bonding Interaction Between Antibiotics and Peptide Precursors on Bacterial Surfaces: An Investigation using Single-Molecule Fluorescence Detection Techniques	NTU	Xing Bengang
57	Structural, Dynamic and Functional Insights into RNA Helicase Dbp5 Involved in the Life Cycle of RNA	NUS	Yang Daiwen
58	Molecular Mechanisms of Action and Human Bioaccumulation of a Novel Estrogenic Compound Secreted by a Singapore Phytoplankton Isolate, <i>Chattonella marina</i> .	NUS	Yong Eu Leong
59	Epigenetic Regulation of Gene Expression in Human Malaria Parasites <i>Plasmodium falciparum</i> ; New Target for Malaria Drug Development	NTU	Zbynek Bozdech
60	Dissecting the ERp29-mediated Downstream Modulators and its Oncogenic Role in Breast Tumour Progression	NUS	Zhang Daohai
61	Use of NIR-to-visible Upconversion Fluorescent Nanoparticles for Synergistic Non-invasive Imaging and Photodynamic Therapy of Cancer in Deep Tissues	NUS	Zhang Yong