

BMRC 5th Grant Call (2006) Results

S/ N	Title	Host Inst	PI
1	Dissecting The Role Of Sphingosine Kinase1 In Acute Inflammation	NUS	Alirio J Melendez
2	Mechanisms of vascular protection by haem oxygenase	NUS	Barry Halliwell
3	Hepatitis B virus X protein (HBx) and Hepatocellular carcinogenesis (HCC) - Characterization HBX in HCC Patients and Identification of Downstream Targets of HBx	NUS	Caroline Lee
4	Enhancing enrichment of fetal primitive erythroblasts from maternal blood :Development of novel MEMS devices to deplete adult anucleate erythrocytes.	NUS	Choolani Mahesh
5	Enhancing tolerogenic potential of dendritic cells for therapeutic goals	NTU	Christiane Ruedl
6	Structural Studies on the Interaction of the Chromatin-Unfolding High Mobility Group N Proteins and Peptides with the Nucleosome Core Particle.	NTU	Curt Alexander Davey
7	Study of the effect and mechanisms of neural cell adhesion molecules on spinal cord injury and treatment	NNI	Feng Zhi Wei
8	Therapeutic Effects of Respirable Antisense Oligonucleotides in A Mouse Asthma Model	NUS	Fred Wong Wai Shiu
9	Cyclic Amp Signalling In Heart: Regulatory Networks Coupling Phosphodiesterases And Protein Kinase A	NUS	Ganesh Srinivasan Anand
10	Investigation of noradrenergic modulation of long-term potentiation of hippocampo-prefrontal cortical projections.	NUS	Gavin Stewart Dawe
11	Structural and biochemical characterization of the nucleotide-binding subunits A and B and the A-H interaction inside the archaea type A ₁ A ₀ ATPsynthase	NTU	Gerhard Grüber
12	Design and Synthesis of Novel Inhibitors of Isoprenyl cysteine methyltransferase as potential anticancer agents.	NUS	Go Mei Lin
13	Proteomic Approaches to Delineate the Molecular Mechanism of Dysferlin-Mediated Cell Membrane Repair	NCC	Ho Meng Fatt
14	Development of rapid molecular fluorescence excitation-emission spectroscopy system for non-invasive, in vivo detection of precancerous and cancerous tissue in the cervix	NUS	Huang Zhiwei
15	Intrauterine gene therapy of haemophilia in a non-human primate	NUS	Jerry Chan Kok Yen
16	Towards the rational design of antiviral inhibitors: X-ray crystallographic structural studies of proteins and enzymes from two RNA viruses that are important human pathogens.	NTU	Julien Lescar

17	Mice models to understand the functional significance of p73 overexpression in human cancers	NCC	Kanaga Sabapathy
18	Molecular cues guiding T cell development	NTU	Karjalainen Klaus
19	Detecting Dystrophin Mutations in DMD/BMD: Development of a Rapid and Cos-Effective Molecular Diagnostic Method using Thermal Denaturation Analysis.	NUS	Lai Poh San
20	To Define ES cell-derived progenitors for differentiation of insulin-producing cells for replacement therapy of type 1 diabetes	NUS	Li GuoDong
21	Biological functions and pathological implications of CNS sirtuin 2: an oligodendroglia-specific tubulin/histone deacetylase	NUS	Liang Fengyi
22	Structure and Function of Novel Antibiotic Targets in Opportunistic Pathogen <i>Pseudomonas Aeruginosa</i>	NTU	Liang Zhao Xun
23	Characterization of the role of lysine (K)-63 polyubiquitination in the biogenesis and clearance of protein inclusions associated with neurodegenerative diseases	NNI	Lim Kah Leong
24	Molecular changes during breast cancer progression	NUS	Lim Yoon Pin
25	Innovative strategy using selective histone deacetylase inhibitor in the management of rheumatoid arthritis: a translational study	NUS	Lin Haishu
26	Roles of prolyl isomerase Pin1 in regulating phosphorylated p27Kip1 stability, localization and ubiquitination, and its impact on neuronal differentiation	NUS	Liou Yih Cherng
27	From toxins to therapeutics: Structure-function relationships and mechanism of novel toxins from snake venoms	NUS	Manjunatha Kini
28	Regulation of the transcriptional functions of the MEIS1 oncoprotein by acetylation, protein kinase A, and TORC co-activators	NTU	Mark Featherstone
29	Characterising the Domain III protein of flavivirus envelope protein as a protective immunogen in flavivirus infection.	NUS	Mary Ng Mah Lee
30	Role of Aberrant Protease Activity in the Pathogenesis of Acute Myeloid Leukaemia (AML)	NUS	Matiullah Khan Khan
31	Defining the biochemical role of the reticulocyte binding proteins of Plasmodium during merozoite invasion	NTU	Peter Rainer Preiser
32	Investigating the role of a novel growth factor HDGF (Hepatoma-derived Growth Factor) in wound repair and regeneration	NUS	Phan Toan Thang
33	The role of hydrogen sulphide in hyperhomocysteinaemia: implications for cardiovascular disease	NUS	Philip Moore
34	Function And Regulatory Control Of The Van Der Woude Syndrome Gene <i>IRF6</i> In The Zebrafish Model	NUS	Samuel Chong

35	Regulatory Network Overlaps of cyclic di-GMP and Quorum Sensing- controlled Pathways for Extracellular Proteases and Multidrug Efflux Pumps in <i>Pseudomonas aeruginosa</i>	NUS	Sanjay Swarup
36	Genes, gene-environment interactions and myopia in Singapore children	NUS	Saw Seang Mei
37	Regulation of T cell activation and apoptosis by the cytokine receptor CD137	NUS	Schwarz Herbert
38	The structure and function of snake non-conventional three-finger proteins and their mammalian homologues, Lynx1 and SLURP-1 that are novel endogenous modulators of neuronal nicotinic acetylcholine receptors.	NNI	Selvanayagam Nirthanan
39	Alternative splicing diversifies Ca _v 1.3 channels and acts as molecular switch to regulate hippocampus-dependent learning and memory	NUS	Soong Tuck Wah
40	Alkylator-induced, BRCA2 dependant repair by AGT: implications for cancer therapy	NUS	Srividya Swaminathan
41	Solution Structures of Peptides and Protein Fragments inComplex with Lipopolysaccharide by Nuclear Magnetic Resonance (NMR) Spectroscopy: Towards a Rational Development of Anti-Sepsis Drugs	NTU	Surajit Bhattacharjya
42	Genetic regulation and ecological relevance of temperature-dependent filamentation in <i>Legionella pneumophila</i> biofilms	NTU	Sze Chun Chau
43	Array-based comparative genomic hybridization for the detection of submicroscopic chromosomal abnormalities in non-syndromic mental retardation	KKWC H	Tan Ene Choo
44	The role of integrin activation states in T lymphocyte adhesion and migration	NTU	Tan Suet Mien
45	Cellular functions of Nogo – roles in membrane dynamics, neuroprotection and neuroregeneration	NUS	Tang Bor Luen
46	Proteomic analysis of beta-thalassemia: toward correlation and understanding of disease severity.	NTU	Tang Kai
47	MicroRNAs and Cell Proliferation	NUS	Theresa Tan May Chin
48	Functional study of a novel protein tetratricopeptide repeat domain 9	NTU	Valerie Lin
49	Surface Modification and Functionalization of Bone-Related Implant Biomaterials to Enhance Biocompatibility and Promote Osseointegration	NUS	Wilson Wang Ee Jen
50	Individual-based Modelling on the Spread of Infectious Diseases in Singapore	NUS	Wong Lim Soon
51	The effect of pharmacogenetics on treatment toxicities and outcomes in East Asian and Caucasian patients undergoing docetaxel or gemcitabine-based chemotherapy.	NUH	Yong Wei Peng