

## NMRC Awarded Projects Competitive Research Grants - May 2018 Grant Calls

### Clinician Scientist Individual Research Grant (CIRG) 18 May Grant Call

Application ID	Project ID	Project Title	PI name	Host institution
CIRG18may-0014	MOH-000025	The role of Yap/Taz expression in the development of non-alcoholic steatohepatitis (NASH)	Paul M Yen	Duke-NUS Medical School
CIRG18may-0019	MOH-000032	Systems for assessing mutational signatures in-vitro and discovering mutagenic exposures in tumours	Steven G Rozen	Duke-NUS Medical School
CIRG18may-0018	MOH-000063	Development of SGLT2 inhibitors as a novel targeted therapy for EGFR-WT and LKB1-mutant human non-small cell lung cancer	Shen Hanming	National University of Singapore
CIRG18may-0021	MOH-000064	Harnessing and enhancing immunotherapy against nasopharyngeal carcinoma (NPC)	Goh Boon Cher	National University Hospital
CIRG18may-0031	MOH-000065	Determining the Function of Live-Attenuated Vaccine Induced Pro-Inflammatory Responses in Eliciting Vaccine-Associated Adverse Events and Immunogenicity	Jenny Low Guek Hong	Singapore Health Services
CIRG18may-0051	MOH-000066	Novel genetic and non-genetic risk factors for endothelial dysfunction and diabetic micro-angiopathies – meeting future challenges	Lim Su Chi	Khoo Teck Puat Hospital
CIRG18may-0057	MOH-000067	Comprehensive interrogation of the epigenetics promoter and enhancer landscape in HCC to identify aberrant regulatory mechanisms associated with HCC	Pierce Chow Kah Hoe	National Cancer Centre Singapore
CIRG18may-0002	MOH-000141	Bedside to bench and back again: evaluating Neisseria spp. as novel respiratory pathobionts using systems biology	Sanjay Haresh Chotirmall	Nanyang Technological University

### Clinician Scientist Individual Research Grant - New Investigator Grant (CNIG) 18 May Grant Call

Application ID	Project ID	Project Title	PI name	Host institution
CNIG18may-0024	MOH-000161	Effectiveness of diabetes education and medication adjustment with telemonitoring intervention in reducing diabetes complications during Ramadan fasting – a randomized control trial	Sueziani Binte Zainudin	Sengkang General Hospital
CNIG18may-0001	-	A pilot study of intermittent accelerated burst transcranial magnetic stimulation (aTBS) to treat depression: a randomized, single-blind, delayed-start trial	Tor Phern Chern	Institute of Mental Health
CNIG18may-0008	MOH-000181	Mild Behavioral Impairment: Structural-Connectivity Patterns and Influence on Cognition in amnesic Mild Cognitive Impairment	Ng Kok Pin	National Neuroscience Institute
CNIG18may-0016	MOH-000179	Probing the Immunometabolic Factors of Influenza Vaccine Immune Response in Singapore Elderly	Sapna Sadarangani	Tan Tock Seng Hospital
CNIG18may-0002	MOH-000158	Rapid Triage for Serious Infections in Infants Younger than 3 Months using A Novel Heart Rate Variability Tool	Chong Shu-Ling	KK Women's and Children's Hospital
CNIG18may-0020	MOH-000159	A pilot study on the use of in vitro activation of ovarian primordial follicles to treat women with premature ovarian failure	Liu Shuling	KK Women's and Children's Hospital

### Clinical Trial Grant-Investigator Initiated Trials (CTG-IIT) 18 May Grant Call (NRF CENTRAL GAP FUND)

Application ID	Project ID	Project Title	PI name	Host institution
CTGIIT18may004	MOH-000397	Multimodal Personalized Training System for Neurocognitive Preservation and Enhancement for the Elderly: A Randomized Controlled Trial	Lee Tih Shih	Duke-NUS Medical School
CTGIIT18may005	MOH-000470	Reducing Antimicrobial Resistance in Intensive Care Units – a Regional Randomised Strategy Trial	Paul Anantharajah Tambyah	National University Hospital
CTGIIT18may012	MOH-000581	Metastatic Triple-Negative Taxane-Resistant/Refractory Breast Cancer: Investigating the Role of Bexarotene in Inducing Susceptibility to Chemotherapy by Differentiating Cancer Cells from a Mesenchymal-Like to an Epithelial-Like Phenotype (BEXMET)	Lim Hsuen Elaine	National Cancer Centre Singapore
CTGIIT18may014	MOH-000494	Evaluation of safety of a novel wound dressing patch for the treatment of diabetic foot ulcers in a phase 1 clinical trial	Arijit Biswas	National University of Singapore

### Open Fund - Large Collaborative Grant (OF-LCG) 18 May Grant Call

Application ID	Project ID	Project Title	Corresponding PI name	Host Institution
OFLCG18May-0028	MOH-000205	The Singapore LYMPHoma translational study (SYMPHONY)	Lim Soon Thye	National Cancer Centre Singapore
OFLCG18May-0026	MOH-000207	Singapore PARKinson's disease Translational Clinical Programme (SPARK, Phase II)	Tan Eng King	National Neuroscience Institute
OFLCG18May-0023	MOH-000206	Singapore Gastric Cancer Consortium – Bringing Discoveries to Patients	Yeoh Khay Guan	National University of Singapore
OFLCG18May-0022	MOH-000271	Advancing Precision Medicine for Cardiovascular Disease and Diabetes in Asian Populations	John Chambers	Nanyang Technological University

### Open Fund - Individual Research Grant (OFIRG) 18 May Grant Call

Application ID	Project ID	Project Title	PI name	Host institution
OFIRG18may-0013	MOH-000081	Structural and functional studies of GABPA/GABPB in complex with mutant TERT promoter DNA and druggable p52/ETS1 and ETS1/DNA complexes	Song Haiwei	Institute of Molecular and Cell Biology
OFIRG18may-0016	MOH-000133	Exploring the Therapeutic Potential of Narciclasine in Treating Metabolic Disorders	Xu Feng	Institute of Molecular and Cell Biology
OFIRG18may-0024	MOH-000142	Functional implication of cytoplasmic EZH2 in cancer stem cells	Su I-hsin	Nanyang Technological University
OFIRG18may-0033	MOH-000143	Novel Intrinsic mechanisms promoting neural stem cell reactivation	Wang Hongyan	Duke-NUS Medical School
OFIRG18may-0039	MOH-000085	Investigating the Role of HtrA Protease in Antimicrobial-Resistant Gram-Positive Infections	Kimberly Kline	Nanyang Technological University
OFIRG18may-0069	MOH-000086	Functional and structural analysis of flaviviral NS5 protein and its impact on pathogenesis	Subhash Vasudevan	Duke-NUS Medical School
OFIRG18may-0070	MOH-000087	Role of glycosylation in Dengue virus fitness and virulence	ALONSO	National University of Singapore
OFIRG18may-0071	MOH-000088	To decipher the molecular mechanisms regulating Protein Regulator of Cytokinesis 1 (PRC1) protein and Wnt signaling to tackle early recurrent human hepatocellular carcinoma disease.	Hui Kam Man	National Cancer Centre Singapore
OFIRG18may-0075	MOH-000089	A Computational Microscope to Decipher the Tumor Microenvironment and Its Role in Immune Checkpoint Blockade Therapy	Anders Skanderup	Genome Institute of Singapore
OFIRG18may-0093	MOH-000090	Investigation of the role of polyamines as critical regulators of wound healing	Leah Vardy	Skin Research Institute of Singapore
OFIRG18may-0120	MOH-000144	Mechanisms of enhancer alterations in etiologically-distinct CCAs and their clinical implications	Teh Bin Tean	National Cancer Centre Singapore
OFIRG18may-0098	MOH-000145	Elucidating molecular mechanisms of the OmpC-Mla system in bacterial lipid transport and virulence	Chng Shu Sin	National University of Singapore

**Open Fund - Young Individual Research Grant (OFYIRG) 18 May Grant Call**

Application ID	Project ID	Project Title	PI name	Host institution
OFYIRG18May-0034	MOH-000069	Discovering novel regulators of gene expression by CRISPR dCas9-ORFeome fusion screen	Yong Kol Jia	National University of Singapore
OFYIRG18May-0013	MOH-000070	Therapeutic targeting of oncogenic transcriptional dependency by protein degraders	Liang Xu	National University of Singapore
OFYIRG18May-0025	MOH-000075	Interrogating The Role Of Fatty Acid Metabolism In Inducing Mesenchymal-To-Epithelial Transition In Triple Negative Breast Cancer	Loo Ser Yue	Genome Institute of Singapore
OFYIRG18May-0040	MOH-000076	Establishing the role of STARD10 in pancreatic islet development and function to identify novel mechanisms in diabetes predisposition in humans	Natasha Ng Hui Jin	Institute of Molecular and Cell Biology
OFYIRG18May-0062	MOH-000078	Enhancing adoptive T cell therapy through tumour-responsive immune checkpoint inhibitory nanogels	Zheng Yiran	Institute of Bioengineering and Nanotechnology
OFYIRG18May-0008	MOH-000079	Investigating The Roles Of Non-Coding Rnas In Inflammation	Semih Can AKINCILAR	Institute of Molecular and Cell Biology
OFYIRG18May-0059	MOH-000080	Investigating Diversified Bifunctional Macrocycles By Phage Display As A Novel Technology Platform	Pua Khian Hong	p53 Laboratory
OFYIRG18May-0049	MOH-000101	Role of collagen signalling via YAP in self-renewal of human multipotent pancreatic progenitor cells	Jamie Francis Trott	Institute of Molecular and Cell Biology
OFYIRG18May-0053	MOH-000102	Identifying new cell surface receptor(s) for the WNT enhancer R-SPONDINS ligands	Emmanuelle SZENKER	Institute of Molecular and Cell Biology
OFYIRG18May-0044	MOH-000103	Neural basis of energy homeostasis dysregulation in Huntington's disease.	Sarah Luo Xinwei	Singapore Bioimaging Consortium
OFYIRG18May-0014	MOH-000136	Developing Patient-Specific Hepatocellular Carcinoma (HCC) Organoids With Stroma (PDO+S) For Drug Screening And Personalized Medicine	Eliza Fong Li Shan	National University of Singapore
OFYIRG18May-0021	MOH-000137	Role of T-cells in the pathogenesis of focal segmental glomerulosclerosis (FSGS): Identification of a unique immunologic signature	Chan Chang Yien	National University of Singapore
OFYIRG18May-0057	MOH-000138	HOXC10 Maintains White Adipose Tissue Identity and its loss via Proteasomal Activity Leads to Enhanced Browning of White Adipose Tissues	Angeline Tan Hwee Yim	Singapore Bioimaging Consortium
OFYIRG18May-0043	MOH-000139	Modulating branched-chain amino acid availability as a new paradigm in treatment of hepatocellular carcinoma	Lee Qian Yi	Singapore Bioimaging Consortium
OFYIRG18May-0041	MOH-000140	Actin cytoskeleton driven intrinsic chirality – a role in collective cell migration and in tissue engineering application	Tee Yee Han	National University of Singapore

### Health Services Research Grant (HSRG) 18 May Grant Call

Application ID	Project ID	Project Title	PI name	Host institution
HSRGHP18may-0004	MOH-000263	Using the Multiphase Optimization Strategy to Improve Diet Quality (MOSTDQ)	Eric A. Finkelstein	Duke-NUS Medical School
HSRGHP18may-0001	MOH-000286	Evaluate the effectiveness and cost-effectiveness of 'Supportive Parenting App' a mobile based application on parental and newborn outcomes: A multi-center randomized controlled trial	Shefaly Shorey	National University of Singapore
HSRGMH18may-0002	MOH-000287	Forecasting the burden and long-term impact of poor mental health on healthcare utilisation and cost in the community versus secondary/tertiary care setting	Chen Huijun Cynthia	National University of Singapore
HSRGOC18may-0001	MOH-000345	Patients with gout - their journeys from symptoms to management: implications for health care in Singapore	Lim Kah Leong	Nanyang Technological University
HSRGOC18may-0002	MOH-000364	An Integrative Cardiac Rehabilitation Employing Smartphone Technology (i-CREST) for patients with post-myocardial infarction: A randomized controlled trial	Wang Wenru	National University of Singapore
HSRGEoL18may-0003	MOH-000390	Predicting Survival in End Stage Organ Disease: Developing and Validating Prognostic Models	Allyn Hum	Tan Tock Seng Hospital
HSRGDB18may-0002	MOH-000492	Diabetic foot ulcers among patients with Type 2 Diabetes Mellitus: lifelong cost, risk prediction and cost effectiveness of risk tailored diabetic foot screening in Singapore	Sun Yan	National Healthcare Group
HSRGOC18may-0005	MOH-000686	Improvement of screening and identifying vulnerable and frail patients in a tertiary cancer centre. Optimising care and improving quality of life through early detection.	Melissa Ooi Gaik Ming	National University Hospital