

NMRC Awarded Projects Competitive Research Grants - May 2017 Grant Calls

Clinician Scientist Individual Research Grant (CIRG) 17 May Grant Call

Application ID	Project ID	Project Title	PI name	Host institution
CIRG17may002	NMRC/CIRG/1475/2017	Design and analysis methods for the evaluation of the effectiveness of vaccines and chemoprevention against infectious diseases	Yin Bun Cheung	Duke-NUS Medical School
CIRG17may014	NMRC/CIRG/1475/2017	Uncoupling Thrombosis and Haemostasis in Patients Needing Combination Antiplatelet and Anticoagulant Therapy	Mark Yan Yee Chan	National University of Singapore
CIRG17may042	NMRC/CIRG/1479/2017	HALT-NUCS: Halting Nucleoside Analogue Therapyx	Seng Gee Lim	National University of Singapore
CIRG17may053	NMRC/CIRG/1482/2017	Harnessing LOXL1 as a therapeutic candidate for exfoliation syndrome and exfoliation glaucoma	Tin Aung	Singapore Eye Research Institute
CIRG17may057	NMRC/CIRG/1481/2017	Targeting telomere maintenance for therapeutic intervention in human cancer and aging	Shang Li	Duke-NUS Medical School
CIRG17may060	NMRC/CIRG/1483/2017	Developing chromosomal 1q21.3 amplification as a circulating biomarker and actionable target for monitoring and treating breast cancer recurrence	Soo Chin Lee	National University Hospital
CIRG17may063	NMRC/CIRG/1477/2017	Characterization and application of spiral micro-channel-sorted chondrocytes for cartilage regeneration	Eng Hin Lee	National University of Singapore
CIRG17may066	NMRC/CIRG/1480/2017	MSC exosomes: the next-generation MSC therapy for treatment of cartilage injuries	James Hoi Po Hui	National University of Singapore
CIRG17may068	NMRC/CIRG/1476/2017	Characterizing the epigenome of human heart failure and functional validation for disease-related variants	Roger Foo	National University of Singapore

Clinician Scientist Individual Research Grant - New Investigator Grant (CNIG) 17 May Grant Call

Application ID	Project ID	Project Title	PI name	Host institution
CNIG17may007	NMRC/CNIG/1178/2017	Pre- and Apnoeic high flow oxygenation for RAPid sequence intubation in The Emergency dept (Pre-AeRATE): a multicentre randomised factorial trial	Mui Teng Chua	National University Hospital
CNIG17may008	NMRC/CNIG/1175/2017	Targeting Interleukin-1 receptor-associated kinase 1 (IRAK1) in breast cancer through single agent and combination strategies	Joline Lim	National University Hospital
CNIG17may015	NMRC/CNIG/1177/2017	The Impact of Dynamic and Static Distraction in Disc Regeneration – A Longitudinal Study using Magnetic Resonance Imaging (MRI) in Rabbit Model	Hwee Weng Dennis Hey	National University Hospital
CNIG17may018	NMRC/CNIG/1174/2017	The interplay of platelets and Toll-like receptors in neutrophil extracellular trap formation and its role in premature cardiovascular disease in systemic lupus erythematosus	Sen Hee Tay	National University of Singapore
CNIG17may024	NMRC/CNIG/1172/2017	Identifying Curable Unilateral Disease using 11C-Metomidate PET-CT in Primary Aldosteronism (CURE_PA)	Hai Kiat Puar	Changi General Hospital
CNIG17may025	NMRC/CNIG/1173/2017	Development of a real-time machine learning approach to improve surgical outcomes during deep brain stimulation of the subthalamic nucleus in Parkinson disease	Nicolas Kon Kam King	National Neuroscience Institute
CNIG17may026	NMRC/CNIG/1176/2017	Establishment of 3D Expansion of Cervical Circulating Tumor Cells as a Prognostic Tool for Chemoradiotherapy Response	Bok Ai Choo	National University Hospital
CNIG17may028	NMRC/CNIG/1180/2018	Novel device for transdermal delivery of triamcinolone in the treatment of nail psoriasis: A randomized intra-patient left-to-right study.	Yik Weng Yew	National Skin Centre

Clinical Trial Grant - Investigator-Initiated Trials (CTG-IIT) 17 May Grant Call

Application ID	Project ID	Project Title	PI name	Host institution
CTGIIT17may008	MOH-000165	RoIe of ARNI in VEntricular Remodeling in HypertenSivE LVH (REVERSE-LVH)	Calvin Chin	National Heart Centre Singapore

Health Services Research Grant (HSRG) 17 Jun Grant Call

Application ID	Project ID	Project Title	PI name	Host institution
HSRG-EoL17Jun001	MOH-000029	End-of-Life Management Protocol Offered Within Emergency Room : a multicentre study (EMPOWER)	Rakhee Yash Pal	National University Hospital
HSRG-WS17Jun008	MOH-000050	Promoting Rational Use of preemptive pharmacogenotyping through developing a multicriteria DEcision analysis framework and conducting Cost-Effectiveness analysis (PRUDENCE).	Wee Hwee Lin	National University of Singapore
HSRG-OC17Jun013	MOH-000162	Cost containment in pharmacogenomic testing, identifying obstacles to implementation of pharmacogenomics and impact on anticonvulsant prescription patterns	Derrick Chan	KK Women's & Children's Hospital
HSRG-OC17Jun014	MOH-000184	Timely Identification of Developmental and Behaviour problems In Toddlers (TIDBIT)	Hwan Cui Koh	KK Women's & Children's Hospital
HSRG-WS17Jun004	NMRC/HSRG/0084/2017	Developing and testing a cancer-specific, local health preference-based utility instrument for cost-effectiveness analysis in Singapore	Luo Nan	National University of Singapore
HSRG-OC17Jun007	NMRC/HSRG/0086/2018	Assessing the impact of enhanced primary care services for people with chronic conditions in Singapore	David Bruce Matchar	Duke-NUS Medical School
HSRG-DB17Jun004	NMRC/HSRG/0087/2018	Application and Evaluation of an Artificial Intelligence Deep Learning System to Detect Referable and Sight-threatening Retinal Diseases in the Singapore Integrated Diabetic Retinopathy Screening Programme (SiDRP): Screening Performance and Cost-effectiveness Analysis	Daniel Ting Shu Wei	Singapore Eye Research Institute
HSRG-OC17Jun001	NMRC/HSRG/0088/2018	OPTIMISING THE ASSESSMENT OF QUALITY OF LIFE IN GLAUCOMA USING ITEM BANK AND COMPUTER ADAPTIVE TESTING SYSTEMS	Ecosse Lamoureux	Singapore Eye Research Institute
HSRG-HP17Jun004	NMRC/HSRG/0089/2018	Preventing obesity-related diseases from young: Evaluating the longitudinal impact of multimedia intervention in promoting self-regulation of calorie consumption in children.	May Oo Lwin	Nanyang Technological University

HSRG-HP17Jun002	NMRC/HSRG/0090/2018	Malnutrition and Frailty: Integrated Community-based and Clinic-supported Screening and Lifestyle Interventions	Roger Chun Man Ho	National University of Singapore
HSRG-HP17Jun003	NMRC/HSRG/0091/2018	Healthy Older People Everyday (HOPE) – Role of High Protein Diet on Muscle and Bone Health	Reshma Aziz Merchant	National University of Singapore
HSRG-MS17Jun001	NMRC/HSRG/0092/2018	Understanding female health professionals' decisions to remain, return to, or exit the professional workforce	Helen Smith	Nanyang Technological University
HSRG-MS17Jun002	NMRC/HSRG/0093/2018	Improving recruitment, retention and re-engagement of doctors within general practice and family medicine	Helen Smith	Nanyang Technological University

Health Services Research Grant - New Investigator Grant (HSRG-NIG) 17 Jun Grant Call

Application ID	Project ID	Project Title	PI name	Host institution
HNIG17Jun007	NMRC/HNIG/0006/2018	Needs assessment of HIV self-testing amongst high-risk MSM and heterosexual men in Singapore: a mixed-methods study	Yap Peiling	Tan Tock Seng Hospital

Open Fund - Large Collaborative Grant (OF-LCG) 17 May Grant Call

Application ID	Project ID	Project Title	Corresponding PI Name	Host Institution
LCG17May004	NMRC/OFLCG/002/2018	Next-Generation Clinical Trials and Integrative Research for Fighting Lung Cancer	Tan Eng Huat	National Cancer Centre Singapore
LCG17May003	NMRC/OFLCG/003/2018	The VICTORY (Virus-Induced Cancer: Translational Oncology Research & immunology) Consortium	Toh Han Chong	National Cancer Centre Singapore
LCG17May013	NMRC/OFLCG/004/2018	Translational Asian Age-related macular degeneration Program (TAAP)	Gemmy Cheung	Singapore Eye Research Institute

Open Fund - Individual Research Grant (OFIRG) 17 May Grant Call

Application ID	Project ID	Project Title	PI name	Host institution
OFIRG17may008	NMRC/OFIRG/0055/2017	Rational Therapeutic Combinations for Wnt Driven Cancers	Babita Madan	Duke-NUS Medical School
OFIRG17may009	NMRC/OFIRG/0062/2017	Determining the Regulatory Role of RNA-binding Protein in Energy Homeostasis of Brown and White Adipose Tissues	Lei Sun	Duke-NUS Medical School
OFIRG17may013	NMRC/OFIRG/0050/2017	Channelopathy Pathogenesis in a Human Sem Cell Model of Angelman Syndrome	Hyunsoo Shawn Je	Duke-NUS Medical School
OFIRG17may014	NMRC/OFIRG/0049/2017	Role of skin-based T cell immunity during Dengue virus infection	Laura Rivino	Duke-NUS Medical School

OFIRG17may032	NMRC/OFIRG/0056/2017	Heart Repair through Direct Cardiac Reprogramming	Jianming Jiang	National University of Singapore
OFIRG17may041	NMRC/OFIRG/0063/2017	Genome wide in vivo functional genetic screen for modulators of NAFLD	Torsten Wuestefeld	Genome Institute of Singapore
OFIRG17may042	NMRC/OFIRG/0052/2017	The Nuclear Envelope and Microtubule Organization in Myogenesis: Disease Mechanisms in Cardiomyopathy and Muscular Dystrophy	Brian Burke	Institute of Medical Biology
OFIRG17may043	NMRC/OFIRG/0053/2017	PRL-3 Basic and Translational Researches	Qi Zeng	Institute of Molecular & Cell Biology
OFIRG17may049	NMRC/OFIRG/0057/2017	Characterization of the functions of Tjp1 and Tjp2 in the heart	Walter Hunziker	Institute of Molecular & Cell Biology
OFIRG17may050	NMRC/OFIRG/0051/2017	Development of Allosteric Inhibitors of Eya2	Congbao Kang	Experimental Therapeutics Centre
OFIRG17may061	NMRC/OFIRG/0064/2017	Exploiting the metabolic vulnerabilities of lung cancer stem cells for therapeutic interventions	Wai Leong Tam	Genome Institute of Singapore
OFIRG17may073	NMRC/OFIRG/0058/2017	A comprehensive survey of the interactome inside the cytoplasm of red blood cell infected by Plasmodium parasite	Peter Rainer Preiser	Nanyang Technological University
OFIRG17may085	NMRC/OFIRG/0059/2017	DUSP4 regulates STING-mediated type I interferon production in infection and cancer	Yongliang Zhang	National University of Singapore
OFIRG17may104	NMRC/OFIRG/0060/2017	A Novel Centrifugal Blood Pump with Low Blood Damage	Choon Hwai Yap	National University of Singapore
OFIRG17may105	NMRC/OFIRG/0061/2017	Drop-Screen: A functional screening platform to investigate mechanisms of innate resistance, and metastasis for personalised therapeutic intervention	Chia-Hung Chen	National University of Singapore
OFIRG17may112	NMRC/OFIRG/0054/2017	Rtl1, a neofunctionalized retrotransposon, a novel factor regulating myogenesis	Colin L. Stewart	Institute of Medical Biology

Open Fund - Young Individual Research Grant (OFYIRG) 17 May Grant Call

Application ID	Project ID	Project Title	PI name	Host institution
OFYIRG17may004	NMRC/OFYIRG/0053/2017	The therapeutic potential of IL11 monoclonal antibody in treating renal fibrosis	Anissa Anindya Widjaja	Duke-NUS Medical School

OFYIRG17may005	NMRC/OFYIRG/0054/2017	Characterization of the translational regulation of dengue antiviral response by G3BP1, G3BP2 and CAPRIN1	Liao Kuo Chieh	Duke-NUS Medical School
OFYIRG17may008	NMRC/OFYIRG/0065/2017	Investigating the functional role and mechanism of action of MBNL1 in cancer.	Debleena Ray	Duke-NUS Medical School
OFYIRG17may010	NMRC/OFYIRG/0047/2017	A Single-Round Infectious Particle approach to a Zika vaccine	Anna Karin Beatrice Sundstroem	Duke-NUS Medical School
OFYIRG17may013	NMRC/OFYIRG/0060/2017	Understanding the genetic basis of variability associated with CYP3A4/5 enzymatic activity: A pilot study	Sylvialin Chen	National Cancer Centre Singapore
OFYIRG17may015	NMRC/OFYIRG/0055/2017	Digital Real-Time PCR (dqPCR) – A New Paradigm for Telomere Length Measurement	Cheow Lih Feng	National University of Singapore
OFYIRG17may017	NMRC/OFYIRG/0061/2017	The functional role of a highly abundant cardiac circular RNA (circRNA) and artificial circRNAs for therapy	Tingsen Benson Lim	National University of Singapore
OFYIRG17may019	NMRC/OFYIRG/0056/2017	Establishing new single cell microfluidic assay to dissect the evolutionary genomics and transnational skin centromeric changes in pancreatic cancer during disease progression	Say Li Kong	Genome Institute of Singapore
OFYIRG17may024	NMRC/OFYIRG/0048/2017	Deciphering the role of NS1-PB as a novel target for neuronal ageing in humans	Carine Bonnard	Institute of Medical Biology
OFYIRG17may026	NMRC/OFYIRG/0062/2017	Unravelling differences between SMCHD1 mutations for potential therapy development in Facioscapulohumeral muscular dystrophy (FSHD)	Xue Shifeng	Institute of Molecular & Cell Biology
OFYIRG17may036	NMRC/OFYIRG/0063/2017	Unravelling the functional dynamics of monocytes at the maternal-fetal interface of the placenta and its consequences during gestational diabetes	Chong Shu Zhen	Singapore Immunology Network
OFYIRG17may040	NMRC/OFYIRG/0057/2017	Translating circulating extracellular RNA into noninvasive measurements of pancreatic health during diabetes progression	Winston Koh Lian Chye	Molecular Engineering Lab

OFYIRG17may044	NMRC/OFYIRG/0051/2017	Role of the Hedgehog Signaling Pathway in Obesity-induced Non-alcoholic Fatty Liver Disease (NAFLD) and Hepatocellular Carcinoma (HCC)	Yong Chun Chong	Singapore Bioimaging Consortium
OFYIRG17may046	NMRC/OFYIRG/0052/2017	Mnk Allosteric Inhibitors	Klement Foo	Experimental Therapeutics Centre
OFYIRG17may050	NMRC/OFYIRG/0064/2017	Translational study of recurrence related oncogenic kinases for potential precision treatment of liver cancer	Xia Hongping	National Cancer Centre Singapore
OFYIRG17may052	NMRC/OFYIRG/0058/2017	Aversive learning and memory under stress: a neuroimaging study	Yu Rongjun	National University of Singapore
OFYIRG17may053	NMRC/OFYIRG/0059/2017	Hybrid PET-MRI imaging of cardiovascular system from vulnerable plaques to infarct tissue for improved care of STEMI patients	Stephanie Marchesseau	National University of Singapore
OFYIRG17may057	NMRC/OFYIRG/0049/2017	Drugging an epigenomically modulated master regulator of clear cell renal cell carcinoma	Yao Xiaosai	Institute of Molecular & Cell Biology
OFYIRG17may066	NMRC/OFYIRG/0050/2017	Markers of macrophage activation syndrome, Natural Killer cell (NK) function and associated genetic polymorphisms in the pathogenesis of severe dengue	Sophie Yacoub	Singapore-MIT Alliance for Research and Technology