

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 Therapy	Seng Gee Lim	National University of Singapore
CIRG17may053		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		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

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		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		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		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	Kuo Chieh Liao	Duke-NUS Medical School
OFYIRG17may008		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		Understanding the genetic basis of variability associated with CYP3A4/5 enzymatic activity: A pilot study	Sylvialin Chen	National Cancer Centre
OFYIRG17may015	NMRC/OFYIRG/0055/2017	Digital Real-Time PCR (dqPCR) – A New Paradigm for Telomere Length Measurement	Lih Feng Cheow	National University of Singapore
OFYIRG17may017		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 traNational Skin Centreriptomics 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		Unravelling differences between SMCHD1 mutations for potential therapy development in Facioscapulohumeral muscular dystrophy (FSHD)	Shifeng Xue	Institute of Molecular & Cell Biology
OFYIRG17may036		Unravelling the functional dynamics of monocytes at the maternal-fetal interface of the placenta and its consequences during gestational diabetes	Shu Zhen Chong	Singapore Immunology Network
OFYIRG17may040	NMRC/OFYIRG/0057/2017	Translating circulating extracellular RNA into noninvasive measurements of pancreatic health during diabetes progression	Lian Chye Winston Koh	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		Translational study of recurrence related oncogenic kinases for potential precision treatment of liver cancer	Hongping Xia	National Cancer Centre
OFYIRG17may052	NMRC/OFYIRG/0058/2017	Aversive learning and memory under stress: a neuroimaging study	Rongjun Yu	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	Clinical Imaging Research Centre
OFYIRG17may057	NMRC/OFYIRG/0049/2017	Drugging an epigenomically modulated master regulator of clear cell renal cell carcinoma	Xiaosai Yao	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

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

Application ID	Project ID	Project Title	PI name	Host institution
CNIG17may007		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		Targeting Interleukin-1 receptor-associated kinase 1 (IRAK1) in breast cancer through single agent and combination strategies	Joline Lim	National University Hospital
CNIG17may015		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		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		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		Establishment of 3D Expansion of Cervical Circulating Tumor Cells as a Prognostic Tool for Chemoradiotherapy Response	Bok Ai Choo	National University Hospital
CNIG17may028		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