

NMRC Awarded Projects Competitive Research Grants - May 2019 Grant Calls

Clinician Scientist Individual Research Grant (CIRG) 19 May Grant Call

Application ID	Project ID	Project Title	PI name	Host institution
CIRG19may-0013	MOH-000370	Understanding and Targeting the Non-Canonical Oncogenic Function of EZH2 for Therapeutic Intervention in Cancers	Chng Wee Joo	National University of Singapore
CIRG19may-0014	MOH-000371	A pre-clinical study of zone-specific MSC-derived chondrogenic cells pre-differentiated on a nano-topographic platform for functionally superior cartilage repair	Lee Eng Hin	National University of Singapore
CIRG19may-0029	MOH-000372	Bayesian Machine Learning Approach to Identify Markers of Progression in Primary Angle Closure Glaucoma	Monisha Esther Nongpiur	Singapore Eye Research Institute
CIRG19may-0030	MOH-000373	Pre-clinical development of brain-penetrant MNK inhibitors for glioblastoma therapy	ONG SIN TIONG	Duke-NUS Medical School
CIRG19may-0032	MOH-000374	The role of epistatically interacting mutations in maintaining the fitness of influenza B virus in humans	Gavin Smith	Duke-NUS Medical School
CIRG19may-0051	MOH-000375	Elucidating the immunobiology of nasopharyngeal carcinoma	Darren Lim Wan Teck	National Cancer Centre Singapore
CIRG19may-0052	MOH-000376	Diseases as perturbations of the human Immunome: A high dimensionality approach to Translational Medicine in silica	Salvatore Albani	Singapore Health Services
CIRG19may-0053	MOH-000377	TCF20 rs932376 genotype-directed dosing of tamoxifen in Asian estrogen-receptor positive breast cancer patients	Balram Chowbay	National Cancer Centre Singapore

Clinician Scientist Individual Research Grant - New Investigator Grant (CNIG) 19 May Grant Call

Application ID	Project ID	Project Title	PI name	Host institution
CNIG19may-0003	-	Optical coherence tomography-based novel outcome measures for disease monitoring in intraocular inflammatory and infectious diseases	Wei Xin	Tan Tock Seng Hospital
CNIG19may-0013	-	Characterisation of longitudinal tumour transcriptomic and immune microenvironment changes to predict response to targeted radionuclide therapy in metastatic nasopharyngeal carcinoma	Nei Wen Long	National Cancer Centre Singapore
CNIG19may-0017	-	Identification of novel pathways involved in the genesis of carpal tunnel syndrome- Fibrosis, mast cells and more	Andre Cheah	National University Hospital (NUH)

CNIG19may-0014	-	Single cell Profiling to Evaluate Genetic and Epigenetic Abnormalities of p53 in Multiple Myeloma	Sanjay de Mel	National University Hospital (NUH)
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Open Fund - Individual Research Grant (OFIRG) 19 May Grant Call

Application ID	Project ID	Project Title	PI name	Host institution
OFIRG19may-0058	MOH-000319	Targeting hepatic estrogen-related receptor alpha (ESRRA) for activating lysosomal biogenesis and function during non-alcoholic fatty liver disease (NAFLD) and aging	Brijesh Kumar Singh	Duke-NUS Medical School
OFIRG19may-0076	MOH-000349	Preventing cardiovascular disease by uncoupling nuclear-cytoskeletal interactions	Colin L Stewart	Institute of Medical Biology
OFIRG19may-0011	MOH-000378	Pharmacological activation of TEAD activity for potential use in regenerative medicine	Wanjin Hong	Institute of Molecular and Cell Biology
OFIRG19may-0060	MOH-000379	Determine the role of circular RNAs in adipocyte development and metabolism	SUN lei	Duke-NUS Medical School
OFIRG19may-0039	MOH-000380	Interrogating the RNA interactome to discover key regulators of colorectal cancer	Yvonne Tay	National University of Singapore
OFIRG19may-0069	MOH-000381	Aquaporin-5 (AQP5) is a functional membrane marker of gastric cancer stem cell populations driving tumour growth and metastasis in mice and humans	Nicholas Barker	Institute of Medical Biology
OFIRG19may-0073	MOH-000382	Determining the molecular and structural basis for inflammasome activation in human	Wu Bin	Nanyang Technological University
OFIRG19may-0083	MOH-000383	Immune-based Therapeutic Small Molecule Discovery to Enhance Neutrophil Anti-fungal Response	Lam Kong Peng	Singapore Immunology Network
OFIRG19may-0095	MOH-000384	Rapid Automated Peripheral non-Invasive Diagnostic (RAPID) optical measurement of blood parameters	Liu Linbo	Nanyang Technological University
OFIRG19may-0096	MOH-000385	Regulation of monocyte / macrophages metabolism and anti-TB responses by histone deacetylase SIRT1	Amit Singhal	Singapore Immunology Network
OFIRG19may-0101	MOH-000386	Regulators of viral inflammation in the bat and their application for health.	Wang Linfa	Duke-NUS Medical School
OFIRG19may-0104	MOH-000387	Rifampicin resistance, transcriptional efficiency and bacterial fitness in Mycobacterium tuberculosis	Juan Pablo Bifani	National University of Singapore
OFIRG19may-0105	MOH-000388	Modulation of p53 splicing as an approach to improve cancer therapy	Tr. Kanaga Sabapathy	National Cancer Centre Singapore

Open Fund - Young Individual Research Grant (OFYIRG) 19 May Grant Call

Application ID	Project ID	Project Title	PI name	Host institution
OFYIRG19may-0039	MOH-000328	Uncovering the Role of Nuclear Import Protein KPNA1 in Inflammasome Regulation and Disease	Lay Wei Jian Kenneth	Institute of Medical Biology
OFYIRG19may-0057	MOH-000320	Targeting chondroitin sulphate synthase I for prevention and treatment of pathological vascular remodelling	Zhao Rongrong	National University of Singapore
OFYIRG19may-0001	MOH-000321	Combinatorial drug screening for novel appetite and metabolic pathway discovery	Wee Lei Caroline	Institute of Molecular and Cell Biology
OFYIRG19may-0006	MOH-000350	Guided transposition bisulfite sequencing as a novel approach to efficiently assess DNA methylation states in heterogeneous cell population.	Tan Eng Kiat Dennis	Institute of Molecular and Cell Biology
OFYIRG19may-0021	MOH-000317	Investigating the functional roles of human-specific liver metabolic regulators using a humanized mouse liver model to tackle liver metabolic disease	Lim Yen Ching	Duke-NUS Medical School
OFYIRG19may-0016	MOH-000368	Identification of innate T-cell activation signatures in influenza infection in contact free system of epithelial-immune cell co-culture	Tan Kai Sen	National University of Singapore
OFYIRG19may-0032	MOH-000316	Targeting Inc-BATE1 in adipose tissue as a therapeutic strategy for obesity	Zhang Shuai	Duke-NUS Medical School
OFYIRG19may-0009	MOH-000314	Mitochondria Transfer in Erythroblastic Island Niche in Homeostatic and Stress Erythropoiesis	Yang Chong	National University of Singapore
OFYIRG19may-0007	MOH-000323	Deep Profiling and in Situ Mapping of CD39+ and CD38+ Immune Cells in Asian Triple Negative Breast Cancers: Building A Prognostic Model for Precision Medicine in the Era of Cancer Immunotherapy	Yeong Poh Sheng	Institute of Molecular and Cell Biology
OFYIRG19may-0037	MOH-000366	Employing Novel In-vivo/Ex-vivo Models of Advanced Gastric Cancer to Identify Potential Therapeutic Targets for Tumour-Resident Lgr5+ Stem Cells	Fatehullah Aliya	Institute of Medical Biology
OFYIRG19may-0002	MOH-000322	Diet and lifestyle intervention strategies to treat β -cell dysfunction and insulin resistance in Asian Indians	Tay Jiahui	Singapore Institute for Clinical Sciences
OFYIRG19may-0024	MOH-000329	Extracellular vesicle based biomarker discovery in mouse models of Alzheimer's disease utilizing proximity-based protein labeling (BioID)	Gunnar Heiko Dirk Poplawski	Duke-NUS Medical School
OFYIRG19may-0029	MOH-000351	Assessment of tricuspid regurgitation with 4D flow cardiovascular magnetic resonance for clinical decision-making and treatment planning (ADVANCEMENT)	Zhao Xiaodan	National Heart Centre Singapore

OFYIRG19may-0050	MOH-000369	Meningeal macrophage and its role in meningeal lymphatics development	Peter See	Institute of Bioengineering and Nanotechnology
OFYIRG19may-0044	MOH-000331	Small Molecule Fluorescent Probe Development for Human Liver Stem Cells with High Differentiation Capability into Hepatocyte Lineage	Lee, Yong-An	Genome Institute of Singapore
OFYIRG19may-0038	MOH-000352	Interferon beta modulation for therapeutic outcomes in disease management	Susana Kim	Singapore Immunology Network
OFYIRG19may-0033	MOH-000327	Functional role of increased coupling between task-negative and task-positive brain networks in cognitively normal older adults	Ng Kwun Kei	National University of Singapore

Open Fund - Large Collaborative Grant (OFLCG) 19 May Grant Call

Application ID	Project ID	Project Title	PI name	Host institution
OFLCG19May-0033	-	Metabolic Health in Asian Women and their Children	Chong Yap Seng	National University of Singapore
OFLCG19May-0034	-	Integrated Innovations in Infectious Diseases (I3D)	Paul Tambyah	National University of Singapore
OFLCG19May-0035	-	Prevention of and Biomarkers for Vascular Cognitive Impairment	Christopher Chen	National University of Singapore
OFLCG19May-0036	-	Implementing precision medicine in clinical practice: The approach for glioblastoma, a neurological disease with unique spatiotemporal complexity	Christopher Ang Beng-Ti	National Neuroscience Institute
OFLCG19May-0038	-	Achieving Functional Cure of Chronic Hepatitis B	Lim Seng Gee	National University of Singapore