

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	MOH-000478	Optical coherence tomography-based novel outcome measures for disease monitoring in intraocular inflammatory and infectious diseases	Wei Xin	Tan Tock Seng Hospital
CNIG19may-0013	MOH-000575	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	MOH-000501	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	MOH-000502	Single cell Profiling to Evaluate Genetic and Epigenetic Abnormalities of p53 in Multiple Myeloma	Sanjay de Mel	National University Hospital (NUH)

Health Services Research Grant (HSRG) 19 Apr Grant Call

Application ID	Project ID	Project Title	PI name	Host institution
HSRADB19apr-0002	MOH-000577	Revolutionising the Assessment of Quality of Life in Diabetes Using Item Banking and Computerised Adaptive Testing Systems	Ecosse Lamoureux	Singapore Eye Research Institute
HSRGEoL19apr-0001	MOH-000580	Conversations for life: Laying the groundwork for more effective communication in palliative care	May Oo Lwin	Nanyang Technological University
HSRGMH19apr-0001	MOH-000597	Mind Matters: A Study of Mental Health Literacy 2020	Siow-Ann Chong	Institute of Mental Health
HSRADB19apr-0003	MOH-000622	Retinal microvascular changes in pre-diabetes: Predicting the progression to diabetes and evaluating the response to exercise. The Pre-DICTED EYE study	Gavin Tan Siew Wei	Singapore Eye Research Institute

Health Services Research Grant - New Investigator Grant (HSRG-NIG) 19 Apr Grant Call

Application ID	Project ID	Project Title	PI name	Host institution
HNIG19apr-0001	MOH-000590	War on Diabetes: a policy narrative. The case of Singapore.	Ow Yong Lai Meng	Singapore General Hospital
HNIG19apr-0019	MOH-000734	The CONNACT programme for knee osteoarthritis: Preventing replacement surgery, healthcare utilisation and cost, with a lifetime perspective.	Michelle Jessica Pereira	National Healthcare Group
HNIG19apr-0002	MOH-000740	Population's Preferences for Colorectal Cancer Screening Tests in Singapore	Wang Yi	National University of Singapore

HNIG19apr-0006	MOH-000789	Integrating community LITE program into a school-clinic-community partnership as a family-based intervention to combat childhood obesity	Chew Chu Shan Elaine	KK Women's & Children's Hospital
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Open Fund - Large Collaborative Grant (OFLCG) 19 May Grant Call

Application ID	Project ID	Project Title	PI name	Host institution
OFLCG19May-0033	MOH-000504	Metabolic Health in Asian Women and their Children	Chong Yap Seng	National University of Singapore
OFLCG19May-0034	MOH-000505	Integrated Innovations in Infectious Diseases (I3D)	Paul Tambyah	National University of Singapore
OFLCG19May-0035	MOH-000500	Prevention of and Biomarkers for Vascular Cognitive Impairment	Christopher Chen	National University of Singapore
OFLCG19May-0036	MOH-000541	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	MOH-000573	Achieving Functional Cure of Chronic Hepatitis B	Lim Seng Gee	National University of Singapore

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