

NMRC Awarded Projects Competitive Research Grants - Nov 2018 Grant Calls

Clinician Scientist Individual Research Grant (CIRG) 18 November Grant Call

Application ID	Project ID	Project Title	PI name	Host institution
CIRG18nov-0001	MOH-000208	Oncogenic roles and molecular functions of ARID5B in T-cell acute lymphoblastic leukemia	Takaomi Sanda	National University of Singapore
CIRG18nov-0007	MOH-000209	Therapeutic targeting IL-11 signaling to treat NASH and phenotypic dissection of fibro-inflammatory liver disease in Singaporeans	Stuart Cook	Duke-NUS Medical School
CIRG18nov-0012	MOH-000210	Head-of-Bed positioning in large artery acute ischemic stroke	Vijay Kumar Sharma	National University Hospital
CIRG18nov-0013	MOH-000211	The Brain and Optic Nerve Study using Artificial Intelligence (BONSAI)	Dan Milea	Singapore Eye Research Institute
CIRG18nov-0027	MOH-000212	Development of Cell Therapy for Parkinson's Disease	Zhang Suchun	Duke-NUS Medical School
CIRG18nov-0034	MOH-000213	Household transmission of carbapenemase-producing Enterobacteriaceae Singapore: A cohort study	Kalisvar Marimuthu	Tan Tock Seng Hospital
CIRG18nov-0038	MOH-000214	Deciphering the Role of ADARs-interacting RNA Helicases in Modulating RNA Editome in Cancer	Chen Leilei	National University of Singapore
CIRG18nov-0045	MOH-000215	VALIDATION OF MOLECULAR TARGETS AND VULNERABILITIES IN NASOPHARYNGEAL CARCINOMA	Loh Kwok Seng	National University of Singapore
CIRG18nov-0048	MOH-000216	Neural network reorganization associated with upper limb motor recovery in stroke patients-establishing a prognostic model and tailoring neuromodulation for rehabilitation	Effie Chew	National University Hospital

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

Application ID	Project ID	Project Title	PI name	Host institution
CNIG18nov-0004	MOH-000283	MAP3K6 Expression in Recurrent Glioblastoma (GBM): A Marker for Poor Survival with Potential as a Therapeutic Target	Lin Xuling	National Neuroscience Institute of Singapore Pte Ltd
CNIG18nov-0005	MOH-000260	A novel murine model of atherosclerotic plaque vulnerability and rupture for testing new plaque-stabilising therapies	Miina Karelia Oehman	Duke-NUS Medical School
CNIG18nov-0009	MOH-000324	Small Fiber Neuropathy: Classification and Search for Etiology	Amanda Chee Yun Chan	National University Hospital
CNIG18nov-0014	MOH-000284	Therapeutic exploration of pro-oxidant and mitophagy-related strategies for Parkinson's disease with Asian-related LRRK2 risk variants	Xiao Bin	National Neuroscience Institute of Singapore Pte Ltd
CNIG18nov-0016	MOH-000307	Multispectral Optoacoustic Tomography in Intra-Operative Assessment of Tumor Margins for Breast-Conserving Surgery	Goh Yonggeng	National University Hospital
CNIG18nov-0017	MOH-000308	Intra-gastric fundal and body injection of Botulinum Toxin A for weight loss, a Randomized Controlled Trial	Danson Yeo	Tan Tock Seng Hospital
CNIG18nov-0024	MOH-000574	Phase 1 study of Pressurized IntraPeritoneal Aerosol Chemotherapy (PIPAC) with Paclitaxel in Peritoneal Carcinomatosis for Gastric Cancer	Kim Guowei	National University Hospital

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

Application ID	Project ID	Project Title	PI name	Host institution
CTGIIT18nov0011	MOH-000488	Silk Sleeve Device for Improving the Graft Bonding at the Bone Tunnel for Anterior Cruciate Ligament (ACL) Reconstruction – A Phase I/II Study	James Hui Hoi Po	National University Hospital

Open Fund - Individual Research Grant (OFIRG) 18 November Grant Call

Application ID	Project ID	Project Title	PI name	Host institution
OFIRG18nov-0001	MOH-000217	Lipid Mediators of Brain Growth and Function	David Silver	Duke-NUS Medical School
OFIRG18nov-0011	MOH-000218	Mechanistic insights into kindlin-3 regulation and their roles in leukemia	Suet-Mien Tan	Nanyang Technological University
OFIRG18nov-0025	MOH-000219	Single-cell histone modification analysis to study epigenetic heterogeneity and plasticity as a mechanism of tumor chemoresistance	Cheow Lih Feng	National University of Singapore
OFIRG18nov-0034	MOH-000220	Investigation of flavivirus immunity on the vertical transmission of Zika virus	Danielle Anderson	Duke-NUS Medical School
OFIRG18nov-0036	MOH-000221	Role of Semaphorin3e-Plexind1 signaling in left ventricular noncompaction (LVNC)	Manvendra K. Singh	Duke-NUS Medical School
OFIRG18nov-0060	MOH-000251	Blood-based measurement of brain amyloid plaque deposition	Huilin Shao	National University of Singapore
OFIRG18nov-0078	MOH-000222	Target RAF Complex for Cancer Therapy	Hu Jiancheng	National Cancer Centre Singapore
OFIRG18nov-0088	MOH-000252	In vivo 2C-BioID, a new platform technology for interactome analysis	Brian Burke	Institute of Medical Biology
OFIRG18nov-0093	MOH-000223	The regulation of mTOR signaling in skeletal muscle growth and sarcopenia	Tsai Shih-Yin	National University of Singapore
OFIRG18nov-0098	MOH-000224	A novel chemical-biology approach to identify small-molecule modulators of death receptor p75NTR signaling and activity	Carlos Ibanez	National University of Singapore
OFIRG18nov-0100	MOH-000225	Molecular mechanisms of synaptic depression: Roles of synapsin-synapsin interactions	George Augustine	Nanyang Technological University
OFIRG18nov-0101	MOH-000253	Non-invasive photoacoustic mesoscopy imaging of clinical skin inflammatory disorders coupled with AI-assisted scoring to evaluate disease prognosis and associated metabolic co-morbidities	Malini Carolene Devapiriyai Olivo	Singapore Bioimaging Consortium
OFIRG18nov-0103	MOH-000254	Mapping hematopoietic lineages of healthy and high-risk acute myeloid leukemia patients with FLT3-ITD mutations using single-cell omics	Jinmiao Chen	Singapore Immunology Network

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

Application ID	Project ID	Project Title	PI name	Host institution
OFYIRG18nov-0019	MOH-000227	Dissecting the Spatio-temporal Dynamics of Chromatin Remodeling in Single Human Cells in Health and Cancer	Zhao Ziqing	National University of Singapore
OFYIRG18nov-0037	MOH-000228	Roles of the MYCN enhancer and its associated enhancer RNA in T-cell acute lymphoblastic leukemia and hematopoiesis	Tan Shi Hao	National University of Singapore
OFYIRG18nov-0014	MOH-000229	Post-transcriptional mechanisms shape the fibrotic response in NASH	Sebastian Schaefer	National Heart Centre Singapore
OFYIRG18nov-0018	MOH-000230	Light-Activatable Theranostic Nanoparticles to Improve the Delivery and Cardioprotective Efficacy of Cytoprotective Peptides in Acute Myocardial Infarction.	Shengjie Lu@Shengjie Lyu	National Heart Centre Singapore
OFYIRG18nov-0001	MOH-000231	Assessing the Effect of Flaviviral Pre-immunity on Yellow Fever Vaccine-induced Humoral Responses Using A Systems Serology Approach	Adamberage Ruklanthi de Alwis	Duke-NUS Medical School
OFYIRG18nov-0033	MOH-000232	A mechanistic study of epigenetic regulation by PBRM1 towards targeted therapy in clear cell renal cell carcinoma (ccRCC)	Hong Jing Han	Duke-NUS Medical School
OFYIRG18nov-0002	MOH-000233	Modelling the immune suppressive solid tumor microenvironment for immunotherapy optimization	Andrea Pavesi	Institute of Molecular and Cell Biology
OFYIRG18nov-0006	MOH-000234	Point-of-Care diagnosis of pathogen nucleic acids using DNA nanostructure enzyme complexes for amplification and visual readout	Ho Rui Yuan Nicholas	Institute of Molecular and Cell Biology
OFYIRG18nov-0010	MOH-000235	Exploiting Chromosomal Translocations and Fusion Genes in Multiple Myeloma for Targeted Therapy	Lee Sook Yee	Institute of Molecular and Cell Biology
OFYIRG18nov-0011	MOH-000236	Detecting Early Changes in Kidney Function in Preadolescents with Poor Fetal Growth Using Functional MRI	Navin Michael	Singapore Institute for Clinical Sciences
OFYIRG18nov-0040	MOH-000244	Investigating CHCHD2 as genetic risk factors for familial Parkinson's Disease (PD) using zebrafish	Harwin Sidik	Translational Laboratory in Genetic Medicine
OFYIRG18nov-0030	MOH-000237	Critical re-evaluation of APP trafficking and A β production models in neurons in concert with development of microimmuno-electrode sensors for real-time A β measurements in culture	Shao Zhong Jonathan Aow	Genome Institute of Singapore
OFYIRG18nov-0032	MOH-000238	Unraveling the evolutionary origin of low vaccine efficacy in the H3N2 influenza virus	Chen Hui	Genome Institute of Singapore
OFYIRG18nov-0051	MOH-000239	Mapping Cellular and Molecular Pathology in Autism Spectrum Disorders using Human Brain Organoids and Spatial Transcriptomics	Liu Jinyue	Genome Institute of Singapore

OFYIRG18nov-0056	MOH-000240	Single-cell RNA-seq in combination with CRISPR screening to Identify mode of Immuno-resistance in Metastatic Breast Cancers	Ankur Sharma	Genome Institute of Singapore
OFYIRG18nov-0066	MOH-000241	Investigation of RETO, A Novel Endogenous Peptide Inhibitor of chemokine receptors CCR7 and CCR9.	Wong Pui Mun	Institute of Medical Biology
OFYIRG18nov-0060	MOH-000242	The role of LINC complex-mediated nuclear migration in striated muscle development and laminopathies	Lee Yin Loon	Institute of Medical Biology
OFYIRG18nov-0046	MOH-000243	Investigating mechanisms and potential treatment regimes of diabetes in the non-obese adult through the usage of the lipodystrophic diabetic seipin mouse model.	Sim Min Fang Michelle	Institute of Medical Biology