

NMRC Awarded Projects Competitive Research Grants - June 2021 Grant Calls

Clinician Scientist Individual Research Grant (CIRG) 21 June Grant Call

Application ID	Project ID	Project Title	PI name	Host institution
CIRG21jun-0045	MOH-000932	Defining the Immune Landscape in the	Jerry Chan Kok Yen	KK Women's & Children's Hospital
		Pathogenesis of Endometriosis through single		
CIRG21jun-0023	MOH-000933	Roles of the novel stem cell factor IQGAP3 in	Yoshiaki Ito	National University of Singapore
		cancer		
CIRG21jun-0002	MOH-000944	Investigating the role of isoprenylcysteine	Wang Mei	Duke-NUS Medical School
		carboxylmethyltransferase (ICMT) in breast		
		cancer metastasis mediated by TGFβ signaling		
CIRG21jun-0015	MOH-000945	Personalized RNA-based Cancer Vaccine for AML	Haiyan Liu	National University of Singapore
		Immunotherapy		
CIRG21jun-0004	MOH-000968	Doxycycline host-directed therapy to improve	Catherine Ong	National University of Singapore
		lung function and decrease tissue destruction in		
		pulmonary tuberculosis: Investigating patient		
		outcomes and biological responses (Doxy-TB)		
CIRG21jun-0038	MOH-000969	Exosomal biomarker predictor of post-surgical	Johnny Ong Chin-Ann	National Cancer Centre Singapore
		peritoneal recurrence to infer treatment		
		strategies		
CIRG21jun-0035	MOH-000970	Drugging the undruggable- targeting wild type	Narayanan Gopalakrishna Iyer	National Cancer Centre Singapore
		EGFR with exosomal therapeutics		
CIRG21jun-0007	MOH-000972	Epigenetic targeting of EZH2-regulated IFN-STING	Lee Soo Chin	National University Hospital
		signalling to overcome anti-HER2 resistance		
CIRG21jun-0047	MOH-000992	Epigenetic drivers of TKI resistance and disease	Daniel Tan	National Cancer Centre Singapore
		progression in EGFR mutated NSCLC		



Clinician Scientist Individual Research Grant - New Investigator Grant (CNIG) 21 June Grant Call

Application ID	Project ID	Project Title	PI name	Host institution
CNIG21jun-0010	MOH-000975	Optimizing Tendon Healing with Functionalized	Kong Chee Hoe	National University Hospital
		Sutures and Modified Fibrin Gels		
CNIG21jun-0014	MOH-000976	Unravelling the cell lineage origins of EGFR	Aaron Tan	National Cancer Centre Singapore
		mutated non-small cell lung cancer		
CNIG21jun-0008	MOH-001038	Genotype Guided Antiplatelet Therapy In	Kaavya Narasimhalu	National Neuroscience Institute
		Ischemic Stroke		
CNIG21jun-0023	MOH-001039	Characterizing Pathogen Associated Molecular	Jonathan Lee	National University of Singapore
		Patterns (PAMPs) propogating Non-Alcoholic		
		Steatohepatitis (NASH)		
CNIG21jun-0019	MOH-001040	Identification of pathophysiological processes in	Jasper Tromp	National University of Singapore
		lean-diabetic patients with heart failure		
CNIG21jun-0016	MOH-001183	EXPLORING SLEEP AS A THERAPEUTIC TARGET	Chan Lai Gwen	Tan Tock Seng Hospital
		FOR IMPROVING OUTCOMES AFTER ACQUIRED		
		BRAIN INJURY		
CNIG21jun-0024	MOH-001198	Multimodal imaging of brain reorganisation as a	Choo Pei Ling	Singapore Institute of Technology
		function of recovery of movement quality after		
		stroke: A longitudinal fMRI and kinematic study		

NMRC CTG-Investigator-Initiated Trials (CTG-IIT) 21 June Grant Call

Application ID	Project ID	Project Title	PI name	Host institution
CTGIIT21Jun-0006		Using Flow Cytometry to guide a multi-antigen targeting of Relapsed Refractory Diffuse Large B cell Lymphoma with a combination of CD-19. CD-22 and Antibody-Coupled T-cell Receptor (ACTR)		National University Health System
		CAR-T cell therapy		
CTGIIT21Jun-0007	MOH-000999	A Phase 1 first in class trial of GE-CAR-BiTE cells in patients with glypican 3 (GPC3) expressing refractory tumours	Goh Boon Cher	National University Health System

Open Fund - Large Collaborative Grant (OF-LCG) 21 June Grant Call

Application ID	Project ID	Project Title	PI name	Host institution
OFLCG21jun-0016	MOH-001067	Precision Medicine in Liver Cancer across an Asia-	Corresponding PI: Pierce Chow	National Cancer Centre Singapore
		Pacific Network 2.0 (PLANet 2.0)	Theme PIs: Pierce Chow, Patrick	
			Tan, Vinay Tergaonkar, Toh Han	
			Chong, Tam Wai Leong, Edward	
			Chow Kai-Hua, Roger Daniel	
			Vaughan	
OFLCG21jun-0013	MOH-001070	An integrated genomic, epidemiological and	Corresponding PI: Jianjun Liu	Genome Institute of Singapore
		intervention program for NPC early diagnosis,	Theme PIs: Jianjun Liu, Thomas	
		stratified therapeutics and prevention	Loh Kwok Seng, Melvin Chua	



OFLCG21jun-0014	MOH-001072	TAckling & Reducing Glaucoma Blindness with	Corresponding PI: Aung Tin	Singapore Eye Research Institute
		Emerging Technologies (TARGET)	Theme Pls: Aung Tin, Khor Chiea	
			Chuen, Cheng Ching Yu, Rachel	
			Chong, Leopold Schmetterer,	
			Michael Girard, Tina Wong,	
			Shamira Perera,Rahat Husain,	
			Victor Koh	



Open Fund - Individual Research Grant (OFIRG) 21 June Grant Call

Application ID	Project ID	Project Title	PI name	Host institution
OFIRG21jun-0034	MOH-000896	Targeting orphan GPR146 to treat	Yu Haojie	National University of Singapore
		hypercholesterolemia and atherosclerosis		
OFIRG21jun-0037	MOH-000897	Investigation of prefrontal neural circuits that	Hyunsoo Shawn Je	Duke-NUS Medical School
		modulates prepulse inhibition, a major		
		endophenotype of schizophrenia.		
OFIRG21jun-0049	MOH-000923	Alternative 3'UTRs of key cancer genes: Novel	Tay Mei Sian Yvonne	National University of Singapore
		regulators and therapeutic targets?		
OFIRG21jun-0005	MOH-000954	The function and mechanism of non-coding RNAs	Lei Sun	Duke-NUS Medical School
		in the aging of adipose tissue		
OFIRG21jun-0017	MOH-000955	Investigating the Role of Polarisome Complex in	Miao Yansong	Nanyang Technological University
		Filamentous Growth of Pathogenic Fungi		
OFIRG21jun-0029	MOH-000956	Exercise-induced Stress Cardiovascular Magnetic	Le Thu Thao	National Heart Centre Singapore
-		Resonance for Evaluation of Chest Pain (EXCEL)		- '
OFIRG21jun-0038	MOH-000957	Systematic isolation of bacteriophages from the	Wilfried Moreira	National University of Singapore
0022ju 0000		gut microbiome: revealing and mining the global	Transca merena	Transital officers of officers
		phageome.		
OFIRG21jun-0048	MOH-000958	Evaluating the GAR/RGG alarmin motif in	Jinhua Lu	National University of Singapore
Ormozijan 0040	1011 000550	autoimmunity and cancer vaccine development	Similar Ed	National officersity of singapore
		autominiumty and cancer vaccine development		
OFIRG21jun-0058	MOH-000959	Elucidation of the mechanism of action of the	Wang Yue	A*STAR ID Labs
01 0000		global stress regulator, DINOR, in the super		7. 67.41.12 24.00
		fungus Candida auris		
OFIRG21jun-0060	MOH-000960	Supercharging Mitochondria : Promoting	Lena Ho	Duke-NUS Medical School
ormozijan occo	111011 000300	Respirasome Formation with Small Peptides		Buke 1703 Medical School
OFIRG21jun-0063	MOH-000961	Understanding telomere-induced chromothripsis	Dennis Kannei	National University of Singapore
or mozzjam occo		by locus-specific proximity labeling quantitative	zerms nappe.	Tradicinal Cimicinity of Cimigapore
		mass spectrometry analysis		
		mass speed officer y dridrysis		
OFIRG21jun-0064	MOH-000962	Spatial memory in the primate hippocampus	Yen Shih-Cheng	National University of Singapore
OFIDC 21ium 000F	MOII 000063	Rational Design and Effectiveness of Cell-	Lakshminarayanan Bajamani	Singapara Fua Basaarah Instituta
OFIRG21jun-0085	MOH-000963	_	Lakshminarayanan Rajamani	Singapore Eye Research Institute
		selective Antimicrobial Peptides (ROADMAP) for		
OFID C34 : 0000	NACH 0000CA	Fungal Keratitis	Character Brook backers	Construction of Cineman
OFIRG21jun-0090	MOH-000964	Spatial Multi-Omics and Functional	Shyam Prabhakar	Genome Institute of Singapore
		Characterisation of Fibroblast Interactions in the		
		Colorectal Cancer Tumour Microenvironment		
OFIRG21jun-0097	MOH-000965	Type 2 diabetes-associated HNF4A and HNF1A	Adrian Teo	Institute of Molecular and Cell Biology
		gene variants contribute to diabetes progression		
		by affecting pancreatic beta cell development		
		and function		
OFIRG21jun-0101	MOH-000966	Investigating the roles of p52:ETS1, a new	Vinay Tergaonkar	Institute of Molecular and Cell Biology
,		member of NFkB family of transcription factors	, ,	J.
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Open Fund - Young Individual Research Grant (OFYIRG) 21 June Grant Call

Application ID	Project ID	Project Title	PI name	Host institution
OFYIRG21jun-0003	MOH-000924	The Novel Role of the SUMO Pathway in	Yang Gao	Duke-NUS Medical School
		Promoting Neural Stem Cell Reactivation and		
		Brain Development		
OFYIRG21jun-0004	MOH-000941	Developing a robust cardiometabolic wearable	Huang Weiting	National Heart Centre Singapore
		device for continuous non-invasive Blood		
		Pressure and Blood Glucose monitoring: Beyond		
		single time-point measurements to time-in-range		
OFYIRG21jun-0010	MOH-000931	Elucidating the mechanisms by which TNF and	Kaiwen Chen	National University of Singapore
Of Tind21juil-0010	WOT1-000551	RIPK1 promote GSDMD activation and	Raiweii Chen	National offiversity of singapore
		inflammatory disease		
OFYIRG21jun-0014	MOH-000946	Understanding White Adipose Tissue (WAT)	Xianrong Wong	A*STAR Skin Research Labs
Or midzijum-0014	101011-000540	formation as a therapeutic target for obesity	Maniong wong	A STAN SKIT Nesearch Labs
OFYIRG21jun-0015	MOH-000934	DISSECTING AML WITH NOVEL SINGLE-CELL	Dominic Paul Lee Kok Sheng	National University of Singapore
Or midzijum-0015	101011-000554	MUTATION ANALYSIS AND INTEGRATIVE MULTI-	Dominie i dui Lee Rok Sheng	National offiversity of singapore
		OMICS TECHNOLOGY		
OFYIRG21jun-0019	MOH-000935	Deciphering the metabolic roles and neoplastic	Ang Chow Hiang	Duke-NUS Medical School
, ,		potential of p53 in the liver		
OFYIRG21jun-0021	MOH-000936	Same but different: ELABELA and APELIN activate	Lim Hui Ting Radiance	Duke-NUS Medical School
		APLNR with divergent biological outcomes	, and the second	
OFYIRG21jun-0022	MOH-000948	THE ROLE OF IL11 IN ALVEOLAR EPITHELIAL CELL	Benjamin Ng Wei Ming	National Heart Centre Singapore
		DYSFUNCTION: IMPLICATIONS FOR LUNG		
		REGENERATION IN SEVERE RESPIRATORY		
		DISEASES		
OFYIRG21jun-0035	MOH-000947	Generating decellularized pancreas scaffolds to	Lim Lillian Yuxian	Institute of Molecular and Cell Biology
		support the culture and function of human		
		pancreatic β cells		
OFYIRG21jun-0038	MOH-000937	Rewiring core regulatory networks in acute	Kiyofumi Hamashima	Institute of Molecular and Cell Biology
		myeloid leukemia to rescue normal		
		hematopoiesis		
OFYIRG21jun-0043	MOH-000940	Functional transcriptomics of viral protein-host	Xiang Shengnan	Institute of Molecular and Cell Biology
		RNA interactions		
OFYIRG21jun-0047	MOH-000938	Assessing the impact of adiposity, low muscle	Mya Thway Tint	Singapore Institute for Clinical Sciences
		mass and metabolic health on bone health in		
		reproductive age Chinese women		
OFYIRG21jun-0048	MOH-000939	DEFINING BIOFILM MECHANISMS OF INNATE	Charalampos Antypas	Nanyang Technological University
		IMMUNITY MODULATION IN INFECTIVE		
		ENDOCARDITIS		
OFYIRG21jun-0052	MOH-000942	Discovering novel molecular targets for	Tay Rong En	Singapore Immunology Network
		immunotherapy of hepatocellular carcinoma		
		using functional in vivo CRISPR screening in		
		tumour-specific CD8 T cells		