

NMRC Awarded Projects Competitive Research Grants - July 2022 Grant Calls

Clinician Scientist Individual Research Grant (CIRG) 22 July Grant Call

Application ID	Project ID	Project Title	PI name	Host institution
CIRG22jul-0026	MOH-001221	The role of human fetal antigen presenting cells	CHAN KOK YEN, JERRY	KK Women's & Children's Hospital
		in tolerance and immunity		
CIRG22jul-0015	MOH-001222	Modelling and Evaluation of Retinal Stem Cell	Su Xinyi	National University of Singapore
		Transplants in an In-vivo Humanised Immune		
		System		
CIRG22jul-0019	MOH-001224	Deciphering the role of MACIR/C5orf30 in diffuse	Anand Jeyasekharan	National University of Singapore
		large B cell lymphoma		
CIRG22jul-0010	MOH-001225	Oncogenic roles of SWI/SNF complex in T-cell	Takaomi Sanda	National University of Singapore
		acute lymphoblastic leukemia		
CIRG22jul-0011	MOH-001226	Dissecting the role of Asparagine synthetase	Roger Foo	National University of Singapore
		(Asns) in the cardiomyocyte cell state		
CIRG22jul-0003	MOH-001227	Role of KIF1A in Neurodevelopmental Disorders:	Saumya Shekhar Jamuar	KK Women's & Children's Hospital
		Modelling Microcephaly for Therapeutic Target		
		Discovery		
CIRG22jul-0018	MOH-001228	Investigating the role of bile acids in non-	Mark Dhinesh Muthiah	National University of Singapore
		alcoholic fatty liver disease and insulin resistance		
CIRG22jul-0002	MOH-001229	A functional study of candidate coronary-heart-	Shu Ye	National University of Singapore
		disease causal genes to identify novel		
		therapeutic targets		
CIRG22jul-0023	MOH-001230	Quantifying the risk of gut microbiome	Lye Chien Boon	Tan Tock Seng Hospital
		disruption and disease due to antibiotic therapy		
		by leveraging on the Singapore-led multicentre		
		INVEST trial		
CIRG22jul-0021	MOH-001223	The roles of non-alcoholic steatohepatitis (NASH)	-Paul Michael Yen	Duke-NUS Medical School
		induced hyperhomocysteinemia (HHcy) on		
		insulin resistance, visceral adiposity, and		
		atherosclerosis		
CIRG22jul-0025	MOH-001231	DISCerning biomarkers and nOVel therapeutic	Wai Meng David Tai	National Cancer Centre Singapore
		strategies in hEpatocellulaR carcinoma		
		(DISCOVER)		
CIRG22jul-0005	MOH-001232	Simple Non-cultured Endothelial Cell (SNEC)	Jodhbir S Mehta	Singapore Eye Research Institute
		Replacement Therapy for the Treatment of		
		Corneal Endothelial Dysfunction		



Clinician Scientist Individual Research Grant - New Investigator Grant (CNIG) 22 July Grant Call

Application ID	Project ID	Project Title	PI name	Host institution
CNIG22jul-0001	MOH-001256	Spinal Cord Bioelectronic Bypass: Towards	Jiang Lei	Singapore General Hospital
		Restoring Volitional Motor Function after Acute		
		Spinal Cord Injury		
CNIG22jul-0010	MOH-001250	LIquid Biopsy EaRly to expedite Targeted therapY	Aaron Tan	National Cancer Centre Singapore
		(LIBERTY) in newly diagnosed advanced non-		
		small cell lung cancer (NSCLC)		
CNIG22jul-0003	MOH-001257	Functional roles of plasma micronutrients in	LEE WAI KHEONG RYAN	KK Women's & Children's Hospital
		overweight and obese women receiving nutrition		
		intervention during preconception and early		
		pregnancy		
CNIG22jul-0005	MOH-001251	Role of mesenchymal stromal cell exosomes in	Law Gin Way	National University Hospital
		meniscal repair		
CNIG22jul-0006	MOH-001252	Developing bioengineered microbe to secrete	Lim Yijuan Yvonne	National University Hospital
		GLP-1, PYY, Oxyntomodulin and butyrate to		
		reduce appetite for treatment and prevention of		
		obesity and diabetes.		
CNIG22jul-0004	MOH-001253	A machine learning based risk model to predict	Seyed Ehsan Saffari	Duke-NUS Medical School
		cognitive impairment in patients with		
		Parkinson's disease (MaL-PROGNOS)		
CNIG22jul-0007	MOH-001254	68Ga-FAPI-46 PET/CT of Peritoneal Metastases in	Jingjing Zhang	National University of Singapore
		Patients with Gastric Cancer		

NMRC CTG-Investigator-Initiated Trials (CTG-IIT) 22 July Grant Call

Application ID	Project ID	Project Title	PI name	Host institution
CTGIIT22jul-0001	MOH-001205	Dopamine treatment of Myopia (DTOM):	Audrey Chia Wei Lin	Singapore Eye Research Institute
		Assessing the efficacy of levodopa eye drops in		
		the control of childhood myopia.		
CTGIIT22jul-0004	MOH-001255	A Phase I/IIa Study of Dual Anti-CD22/CD19	Michaela Seng Su-fern	KK Women's and Children's Hospital
		Chimeric Antigen Receptor-directed T cells for		
		Relapsed/Refractory B-Lineage Acute		
		Lymphoblastic Leukaemia		



Population Health Research Grant (PHRG) Open Category 22 July Grant Call

Application ID	Project ID	Project Title	PI name	Host institution
PHRGOC22Jul-0004	MOH-001314	Singapore Microsimulation Model to Assess	Chay Junxing	Duke-NUS Medical School
		Interventions to Improve Diet		
PHRGOC22Jul-0006	MOH-001317	Precision Care Pathway through frailty and	Vivien Xi WU	National University of Singapore
		cognitive assessment among older adults and		
		development of Care4Senior App, Intensive		
		Aerobic Resistance Training and Brain Health		
		program in the Community		
PHRGOC22Jul-0020	MOH-001315	Formal and informal care among persons with	Chen Huijun Cynthia	National University of Singapore
		cognitive impairment or dementia: projections of		
		utilisation and societal costs over time		
PHRGOC22Jul-0021	MOH-001316	GLOBICS - Global Consortium of Oral Health Birth	Karen Glazer de Anselmo Peres	National Dental Centre Singapore
		Cohort Studies: from global evidence to local		
		action		
PHRGOC22Jul-0022	MOH-001318	Developing a patient-centric tool for measuring	Mihir Gandhi	Singapore Clinical Research Institute
		the quality of end-of-life care among		
		Singaporean patients with advanced illnesses		

Population Health Research Grant - New Investigator Grant (PHRG-NIG) 22 July Grant Call

Application ID	Project ID	Project Title	PI name	Host institution
PHRGNIG22Jul-0003	MOH-001319	Real World Evidence Evaluation of Singapore's	Soye Shin	Duke-NUS Medical School
		New Front-of-Pack Beverage Label		
PHRGNIG22Jul-0004	MOH-001320	Implementation of a Generalist-Specialist	Jolene Wong	Singapore General Hospital
		Palliative Oncology Care Model amongst		
		Advanced Cancer Surgical Patients: A Pilot		
		Cluster Randomized Control Trial		
PHRGNIG22Jul-0014	MOH-001321	Elucidating Effectiveness, Perception and	Yip Wan Fen	National Healthcare Group
		Barriers of Primary Eye Care Model in Singapore		



Open Fund - Individual Research Grant (OFIRG) 22 July Grant Call

Application ID	Project ID	Project Title	PI name	Host institution
OFIRG22jul-0001	MOH-001206	Function of the omega-3 fatty acid lysolipid transporter Mfsd2a in epidermal homeostasis	David Silver	Duke-NUS Medical School
OFIRG22jul-0004	MOH-001207	Exploiting the Clec9A targeting vaccine platform to develop a safe and effective dengue vaccine	Alonso Sylvie	National University of Singapore
OFIRG22jul-0007	MOH-001208	Targeting RNA methylation for sarcopenia	Tang Hong-Wen	Duke-NUS Medical School
OFIRG22jul-0010	MOH-001209	Aetiology of Idiopathic Scoliosis and mechanism of spinal cord regeneration	Sudipto Roy	Institute of Molecular and Cell Biology
OFIRG22jul-0018	MOH-001210	Influence of metabolic disease on mast cell physiology and antiviral function during dengue	Ashley St. John	Duke-NUS Medical School
OFIRG22jul-0028	MOH-001211	Elucidating the mechanism by which Tjp1/ZO-1 deletion suppresses liver cholestasis and a possible involvement in biliary atresia	Walter Hunziker	Institute of Molecular and Cell Biology
OFIRG22jul-0038	MOH-001212	Engineered Tumor Slice Cultures for Personalized Drug Testing	Fong Li Shan, Eliza	National University of Singapore
OFIRG22jul-0043	MOH-001213	Role and therapeutic potential of LRG1 in rheumatoid arthritis	Xiaomeng Wang	Duke-NUS Medical School
OFIRG22jul-0052	MOH-001214	Preclinical evaluation of candidate PKD drugs in kidney organoid xenograft model and genetic animal model.	XIA YUN	Nanyang Technological University
OFIRG22jul-0057	MOH-001215	Wide-field multicolor fluorescence dynamic imaging for real-time delineation of tumor resection margins in the head and neck	Huang Zhiwei	National University of Singapore
OFIRG22jul-0058	MOH-001216	Determining the molecular basis of Noddosome activation in human	Wu Bin	Nanyang Technological University
OFIRG22jul-0060	MOH-001217	Exploring hydrogel encapsulation of polyamines to treat chronic wounds	Leah Vardy	A*STAR Skin Research Labs
OFIRG22jul-0061	MOH-001218	DUSP16 in tumor resistance to chemotherapy and in anti-tumor immunity	Zhang Yongliang	National University of Singapore
OFIRG22jul-0077	МОН-001219	MILK (Macrophages In LacK-tation): Decoding mammary macrophage heterogeneity to optimise treatment of breastfeeding disorders	Chong Shu Zhen	Singapore Immunology Network
OFIRG22jul-0078	MOH-001220	A bispecific antibody agonist of the IL-12 heterodimeric receptor for cancer therapy	Cheng-I Wang	Singapore Immunology Network



OFIRG22jul-0068	MOH-001267	Developing an improved nanopore-based RNA	Yue Wan	Genome Institute of Singapore
		structure probing method to study the structure		
		and function of dengue viruses		
OFIRG22jul-0081	MOH-001268	Host, environmental, and mycobacterial	Stefan Oehlers	A*STAR ID Labs
		determinants of Mycobacterium abscessus		
		infection		
OFIRG22jul-0029	MOH-001269	Simultaneous inhibition of mutant KRAS and	Le Thi Nguyet Minh	National University of Singapore
		activation of RIG-I pathway for the treatment of		
		pancreatic cancer		

Open Fund - Young Individual Research Grant (OFYIRG) 22 July Grant Call

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OFYIRG22jul-0026	MOH-001243	Developing a chemically locked neural interface	Yuxin Liu	National University of Singapore
		for longitudinal single-unit electrophysiology		
OFYIRG22jul-0027	MOH-001244	The role and therapeutic application of ergothioneine in age-related macular degeneration and other eye disorders.	Tang Ming Yi Richard	National University of Singapore
OFYIRG22jul-0028	MOH-001237	Investigation of the circuit and molecular mechanisms underlying Synaptojanin 1 (SYNJ1) related epilepsy	YU WEONJIN	Duke-NUS Medical School
OFYIRG22jul-0029	MOH-001245	Targeting WRN helicase as a synthetic lethal target in ARID1A deficient cancers	Sriram Vakulabaranam Sridharan	National University of Singapore
OFYIRG22jul-0032	MOH-001249	Genomic study on the structural conformations and epigenetic landscapes of Epstein-Barr virus associated malignancies.	Lim Jing Quan	National Cancer Centre Singapore
OFYIRG22jul-0034	MOH-001263	Dissecting the contribution of oncometabolism during tumour-initiation and metastasis- initiation.	Wu Zhengwei	Genome Institute of Singapore
OFYIRG22jul-0035	MOH-001246	Placental tryptophan metabolism: the link between maternal mood and offspring neurodevelopment	Yong Ee Juen Hannah	Singapore Institute for Clinical Sciences
OFYIRG22jul-0042	MOH-001262	Lung-Gut-Liver Axis in the pathogenesis of Klebsiella pneumonia infection	Teo Teck Hui	A*STAR ID Labs
OFYIRG22jul-0043	MOH-001260	Investigating how metabolic-epigenetic interconnection regulates inflammasome activation	Wenning Fang	A*STAR ID Labs
OFYIRG22jul-0044	MOH-001259	Targeting glutamatergic and GABAergic signaling pathways as novel immuno-modulatory therapies against arboviral diseases	Lum Fok-Moon	A*STAR ID Labs