

NMRC Awarded Projects Competitive Research Grants - November 2019 Grant Calls

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

Application ID	Project ID	Project Title	PI name	Host institution
CIRG19nov-0001	MOH-000525	ASCL1 as an oncogenic master transcription factor	Takaomi Sanda	National University of Singapore
		and therapeutic target in neuroblastoma		
CIRG19nov-0004	MOH-000526	Study designs and analytic methods for improving	Cheung Yin Bun	Duke-NUS Medical School
		the evaluation of vaccines and other preventive		
		measures against infectious diseases by using within-		
		unit comparison		
CIRG19nov-0006	MOH-000527	Defining the super-enhancer landscapes in multiple	Chng Wee Joo	National University of Singapore
		myeloma and its clinical implication		
CIRG19nov-0015	MOH-000528	Targeting the epigenetic circuits in MLL1-rearranged	SHANG LI	Duke-NUS Medical School
		leukemia for telomerase inhibition		
CIRG19nov-0020	MOH-000529	Biologics development for immunomodulatory	Makoto Yawata	National University of Singapore
		therapy in multiple myeloma		
CIRG19nov-0024	MOH-000530	Understanding the pathogenesis of a foodborne	Swaine Chen	National University of Singapore
		strain of Group B Streptococcus unique to Singapore		
		and Southeast Asia		
CIRG19nov-0030	MOH-000531	A Biomechanical Sensing Model of Scleral	Hoang Quan Van Manh	Singapore Eye Research Institute
		Remodeling in High Myopia		
CIRG19nov-0031	MOH-000495	Precision medicine using single cell genomics,	Anita Chan	Singapore Eye Research Institute
		transcriptomics, proteomics and lipidomics in fluid		
		biopsies to diagnose and manage primary		
		vitreoretinal lymphoma		
CIRG19nov-0042	MOH-000532	The role of the maternal and infant	Lee Bee Wah	National University of Singapore
		microbiome/metabolome unit on the development		
		of atopic dermatitis in early life – an integrated multi-		
		omics approach		
CIRG19nov-0044	MOH-000533	Cytokine-induced rat model of minimal change	Yap Hui Kim	National University of Singapore
		nephrotic syndrome: mechanism of interleukin-27-		
		induced podocyte injury		



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

Application ID	Project ID	Project Title	PI name	Host institution
CNIG19nov-0007	MOH-000583	Determining the differences in hepatic insulin	Lim Yuan Ling Amanda	National University Hospital
		resistance in Indian and Chinese men		
CNIG19nov-0011	MOH-000582	The Role of Caveolin-1 in Inner Retina	Rachel Chong Shujuan	Singapore Eye Research Institute
		Neurovascular Coupling in Experimental		
		Glaucoma		
CNIG19nov-0006	MOH-000589	Characterizing the Genome and Epigenome of	Chen Ching Kit	National University of Singapore
		Congenital Heart Disease and Functional		
		Validation for Disease-related Variants		
		[PROfiling the Genome and Epigenome of		
		coNgenital heart disease study (PROGENY)]		
CNIG19nov-0014	MOH-000591	Developmental Programming of Chronic Kidney	Lu Liangjian	National University Hospital
		Disease- Role of Renal Inflammation		
CNIG19nov-0017	MOH-000592	Biomarkers of Homologous Recombination	Tan Jing Ying Tira	National Cancer Centre Singapore
		Deficiency to Predict Outcomes in Patients with		
		Triple Negative Breast Cancer Treated with		
		Olaparib or Olaparib – Immunotherapy		
		Combination		

Clinical Trial Grant - Investigator Initiated Trial) 19 November Grant Call

Application ID	Project ID	Project Title	PI name	Host institution
CTGIIT19nov-0002	MOH-000723	Early oral step-down versus continued	David Lye	Tan Tock Seng Hospital
		intravenous antibiotic therapy for		
		uncomplicated Gram-negative bacteraemia		
CTGIIT19nov-0004	MOH-000722	A Biomarker Enrichment Phase II trial of 177Lu-	Daniel Tan	National Cancer Centre Singapore
		DOTATATE in Metastatic Nasopharyngeal		
		Carcinoma		



Open Fund - Individual Research Grant (OFIRG) 19 November Grant Call

Application ID	Project ID	Project Title	PI name	Host institution
OFIRG19nov-0015	MOH-000521	Molecular control of totipotency and cell fate plasticity	Tee Wee Wei	Institute of Molecular and Cell Biology
OFIRG19nov-0053	MOH-000522	A patented antibody for traumatic brain injury	Liao Ping	National Neuroscience Institute
OFIRG19nov-0066	MOH-000523	Modulation of chimeric antigen receptor T cell (CAR-T) signalling to enhance anti-cancer T cell function	Nicholas Robert John Gascoigne	National University of Singapore
OFIRG19nov-0096	MOH-000524	Investigate the viral/host determinant(s) for the vertical transmission of flaviviruses using mouse models	Satoru Watanabe	Duke-NUS Medical School
OFIRG19nov-0037	MOH-000542	Cilia and airway disease: Genes, mechanisms and therapeutic strategy	Sudipto Roy	Institute of Molecular and Cell Biology
OFIRG19nov-0019	MOH-000558	Host cytokine modulation in the amelioration of HFMD neurological complications	John Chua Jia En	National University of Singapore
OFIRG19nov-0021	MOH-000559	Functional dissection of SV2C as a novel Parkinson's disease associated gene	Foo Jia Nee	Nanyang Technological University
OFIRG19nov-0041	MOH-000560	Defining the role of NF1 in brain tumor microenvironment	Ho Ai-wei, Ivy	National Neuroscience Institute
OFIRG19nov-0050	MOH-000561	ASC as a new target for fighting inflammatory diseases	Wang Linfa	Duke-NUS Medical School
OFIRG19nov-0055	MOH-000562	Mapping the signaling pathways coupling mitochondrial functions with the invasive hyphal growth in the fungal pathogen Candida albicans	Wang Yue	Institute of Molecular and Cell Biology
OFIRG19nov-0063	MOH-000563	Identifying circuit & molecular pathways that underlie tremor using models of Spinocerebellar ataxia 3	Sherry Shiying Aw	Institute of Molecular and Cell Biology
OFIRG19nov-0081	MOH-000564	Direct and multiplexed analysis of circulating RNAs	Huilin Shao	National University of Singapore
OFIRG19nov-0090	MOH-000565	FluCluster-AI - Innovations in virus transmission cluster analysis	Sebastian Maurer-Stroh	Bioinformatics Institute
OFIRG19nov-0105	MOH-000566	Targeting Host-Pathogen Synergy in Wound Infection	Guillaume Thibault	Nanyang Technological University
OFIRG19nov-0112	MOH-000567	Contribution of arterial resident macrophage in abdominal aortic aneurysm development	Veronique Angeli	National University of Singapore
OFIRG19nov-0114	МОН-000568	PIM1 Integrates PPARy Signaling with Epigenomic Reprogramming to Promote Brown Fat Development and Function	Xu Feng	Institute of Molecular and Cell Biology



OFIRG19nov-0116	MOH-000569	Identifying Novel Epigenetic Alterations in Asian Patients with Breast Cancer for Improved Risk Prediction and Molecular Classification	Ann Lee-Lim Siew Gek	National Cancer Centre Singapore
OFIRG19nov-0089	MOH-000570	Molecular profiling using CRISPR-Cas9 to reveal the unique metastatic features in human hepatocellular carcinoma.	Hui Kam Man	National Cancer Centre Singapore
OFIRG19nov-0106	MOH-000571	The role of cytoskeletal microtubule remodeling as a tractable therapeutic target in cancer metastasis	Tam Wai Leong	Genome Institute of Singapore

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

Application ID	Project ID	Project Title	PI name	Host institution
OFYIRG19nov-0001	MOH-000534	In vivo studies of development of ALT tumors	Maya Jeitany	Nanyang Technological University
		and their response to novel ALT-targeted		
		therapies		
OFYIRG19nov-0005	MOH-000535	Novel enterovirus A71 host dependency factors	Tan chee wah	Duke-NUS Medical School
		as broad-spectrum host-directed antiviral		
		therapy targets		
OFYIRG19nov-0073	MOH-000536	Landscape of transcriptionally active chromatin	Chen Ye	National University of Singapore
		in brain health and malignancies		
OFYIRG19nov-0008	MOH-000537	DAP3 Reshapes the Cancer Transcriptome as a	Han Jian	National University of Singapore
		Master Regulator of RNA Processing:		
		Mechanistic Understanding and Therapeutic		
		Potential		
OFYIRG19nov-0016	MOH-000538	Role of GASC1-ROCK2 axis in the regulation of	Liu Chungang	Institute of Molecular and Cell Biology
		liver metabolism under pathological conditions		
OFYIRG19nov-0019	MOH-000539	Developing a protease-substrate tracking tool	Alli Shaik Asfa	Institute of Molecular and Cell Biology
		for determining altered protease landscape in		
		cancer		1 m 2 m 2 m 2 m 2 m 2 m 2 m 2 m 2 m 2 m
OFYIRG19nov-0059	MOH-000540	Microfluidic Droplet-Based High-Throughput	Tay Zirui Matthew	A*STAR Infectious Diseases Labs
		Functional Screening of Single B Cells for		
05)//0640 0067	14011000543	Monoclonal Antibody Discovery		Cli D I I I I I I I I I I I I I I I I I I
OFYIRG19nov-0067	MOH-000543	Evolution of human cells following essential	Katherine Larrimore	Skin Research Institute of Singapore
OE)//DC400020	NAOLI 0005 44	gene inactivation	CHO KIINWAO ALVINI	Dula AUGAA disal Calcad
OFYIRG19nov-0028	MOH-000544	Targeting a novel mutant TP53-BCAR1 complex	GUO KUNYAO, ALVIN	Duke-NUS Medical School
		to inhibit cancer metastasis		
OFYIRG19nov-0066	MOH-000545	Regulation of the tricarboxylic acid cycle by one-	Wang Liang Wei	Singapore Immunology Network
		carbon metabolism in Epstein-Barr virus-driven		0.10.1
		transformation		
OFYIRG19nov-0024	MOH-000546	The regulation and function of BAXβ, a potent	Chin Hui San	Duke-NUS Medical School
		inducer of apoptosis, in cancer.		
OFYIRG19nov-0010	MOH-000547	Optimal treatment target identification from	Willem van den Boom	National University of Singapore
		longitudinal electronic medical records		



OFYIRG19nov-0051	MOH-000548	Elucidating molecular mechanisms of cellular	Guillaume Robert Carissimo	A*STAR Infectious Diseases Labs
		viral-hijacking to validate known and novel		
		therapy targets		
OFYIRG19nov-0020	MOH-000549	Mammalian embryonic pluripotency:	Franziska Paul-Shushan	Institute of Molecular and Cell Biology
		Characterization of a candidate gene linked to		
		monozygotic twinning.		
OFYIRG19nov-0033	MOH-000550	Machine learning to estimate effects of in vitro	Jonathan Huang	Singapore Institute for Clinical Sciences
		fertilization and other assisted reproductive		
		technologies on early adolescent		
		cardiometabolic health		
OFYIRG19nov-0074	MOH-000551	Clone Wars: Investigating clonal interactions	Teresa Ho	p53 Laboratory
		and their functional contribution to gastric		
		tumorigenesis and development		
OFYIRG19nov-0053	MOH-000552	Investigating the Role of Top-Down Cortical	Ng Yi Han	National University of Singapore
		Control in Feeding Behavior and Energy		
		Homeostasis		
OFYIRG19nov-0075	MOH-000553	Testing a bio-behavioural toolbox designed to	Keri McCrickerd	Singapore Institute for Clinical Sciences
		promote self-regulatory eating behaviours in		
		childhood		
OFYIRG19nov-0054	MOH-000554	Neural circuitry underlying compulsive-eating	Hasan Mohammad	Institute of Molecular and Cell Biology
		behavior		
OFYIRG19nov-0056	MOH-000555	Illuminating neuromodulatory role of primary	Phua Siew Cheng	Institute of Molecular and Cell Biology
		cilia cAMP signaling in central satiety control		
OFYIRG19nov-0069	MOH-000556	Autologous neutrophil-infused PCL-TCP scaffold	Thanuja DK Herath	National Dental Centre Singapore
		for bone tissue engineering: therapeutic efficacy		
		in a clinically relevant rabbit mandibular model		
		and molecular mechanism		
OFYIRG19nov-0045	MOH-000557	Regulation of mitochondrial dynamics and	Ong Qunxiang	Institute of Molecular and Cell Biology
		function by O-GlcNAc transferase (OGT) in		
		brown adipose tissue		