

NMRC Awarded Projects

Competitive Research Grants - July 2024 Grant Calls

Clinician Scientist Individual Research Grant (CIRG) 24 July Grant Call

Application ID	Project ID	Project Title	PI name	Host institution
CIRG24jul-0008	MOH-001698	Effect of innate immune reprogramming by primary dengue on host response to secondary dengue	Ooi Eng Eong	Duke-NUS Medical School
CIRG24jul-0009	MOH-001705	Histological Validation and Etiological Markers of Small Fiber Neuropathy	Amanda Chee Yun Chan	National University Hospital
CIRG24jul-0010	MOH-001709	The Role of Peroxisome Proliferator-activated Receptors- α Agonists in Promoting Corneal Nerve Trophic Function and Nerve Regeneration	Yu-Chi Liu	Singapore Eye Research Institute
CIRG24jul-0015	MOH-001708	Metabolic biomarkers for dietary intake and health outcomes in multi-ethnic Asian populations	John Chambers	Nanyang Technological University
CIRG24jul-0021	MOH-001706	Leveraging artificial intelligence and whole genome sequencing to unravel transmission dynamics of carbapenemase-producing Enterobacterales in Singapore hospitals (CaPES-AI)	Kalisvar Marimuthu	Tan Tock Seng Hospital
CIRG24jul-0022	MOH-001699	The pathobiology of tRNA modifications in cardiac development and diseased cell states	Roger Foo	National University of Singapore
CIRG24jul-0023	MOH-001700	Spexin as a novel metabo-inflammation treatment target for heart failure with preserved ejection fraction	Derek Hausenloy	National Heart Centre Singapore
CIRG24jul-0028	MOH-001703	Investigating the role of UBOX5 in Primary Angle Closure Glaucoma.	Aung Tin	Singapore Eye Research Institute
CIRG24jul-0034	MOH-001702	An Evaluation of the Mechanisms of Allergy to Galacto-oligosaccharide, a Supplemental Prebiotic in Food and Beverage	Lee Bee Wah	National University of Singapore
CIRG24jul-0037	MOH-001707	Lean diabetic heart failure: Validation and Mechanistic Insights of Treatment Targets	Jasper Tromp	National University of Singapore
CIRG24jul-0045	MOH-001701	Extent and extending tumor-targeting immune repertoire in locally advanced head and neck cancer	Narayanan Gopalakrishna Iyer	National Cancer Centre Singapore

CIRG24jul-0048	MOH-001704	Large prospective cohort to study adiposopathy, sarcopenia and cardiorenal failure among Asians with type 2 diabetes	Lim Su Chi	Alexandra Health Pte Ltd
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Clinician Scientist Individual Research Grant - New Investigator Grant (CNIG) 24 July Grant Call

Application ID	Project ID	Project Title	PI name	Host institution
CNIG24jul-0004	MOH-001759	Novel Non-Invasive Imaging to quantify blood brain barrier dysfunction in vascular mild cognitive impairment	Ashwati Vipin	Nanyang Technological University
CNIG24jul-0005	MOH-001755	Investigating the Underlying Disease Mechanism of PURA Syndrome: Modelling Cortical Dysfunction for Therapeutic Target Discovery	Jeannette Goh Lay Kuan	KK Women's & Children's Hospital
CNIG24jul-0006	MOH-001762	Integrating Artificial Intelligence, Phenotypic Analysis, and Genomics to Elucidate the Systemic and Genetic Foundations of Drusen Subtypes in our Population	Ngo Wei Kiong	Tan Tock Seng Hospital
CNIG24jul-0011	MOH-001757	Cortical connectivity, EEG and Gait Analysis in motor complete paraplegic patients post epidural spinal stimulator implantation	Zhi-Yan Valerie Ng	Tan Tock Seng Hospital
CNIG24jul-0012	MOH-001758	GENEKIDS-PRO: Genomic Enhancement and Patient Engagement in NEphrology through Multidisciplinary KIDney Genetics Clinic Implementation and Integration in Singapore – using PROcess Evaluation Framework.	Lim Ru Sin	Tan Tock Seng Hospital
CNIG24jul-0013	MOH-001760	AI-Enhanced Smart Toilet System for Optimal Bowel Preparation in Colonoscopy Patients	Yew Kuo Chao	Tan Tock Seng Hospital
CNIG24jul-0015	MOH-001756	Impact of a personalized, multidimensional & adaptive exercise intervention on endothelial function in type 2 diabetes mellitus	Chee Ying Jie	Tan Tock Seng Hospital
CNIG24jul-0018	MOH-001761	Developing a Multidisciplinary Intervention Program for prevention of dementia	Deng Xiao	National Neuroscience Institute
CNIG24jul-0022	MOH-001681	A multilineage dependency mapping of the tumour ecosystem in EGFR-mutated Non-small Cell Lung Cancer	Regina Hoo	National Cancer Centre Singapore

NMRC CTG-Investigator-Initiated Trials (CTG-IIT) 24 July Grant Call

Application ID	Project ID	Project Title	PI name	Host institution
CTGIIT24jul-0004	MOH-001753	Phase I/Ib, open label, dose-escalation study of CD5-directed CAR γ δ T-cells (COGADE-C5) in patients with relapsed/refractory CD5+ haematological malignancies	Chen Yunxin	Singapore General Hospital
CTGIIT24jul-0010	MOH-001754	A Randomized Controlled Clinical Trial to Assess the Effect of Dapagliflozin on Renal and Cardiovascular Outcomes in Patients with Severe Chronic Kidney Disease (Renal Life Cycle Trial)	Angela Yee-Moon Wang	Singapore General Hospital

Population Health Research Grant (PHRG) Open Category 24 July Grant Call

Application ID	Project ID	Project Title	PI name	Host institution
PHRGOC24jul-0008	MOH-001789	Effectiveness of An Integrated Palliative Surgical Oncology and Rehabilitation Care Model in Patients with Advanced Cancer Undergoing Major Surgery: A Cluster Randomized Controlled Trial	Jolene Wong	Singapore General Hospital
PHRGOC24jul-0017	MOH-001787	Population level estimation for chronic kidney disease and end stage renal disease; costs and drivers for effective screening	Borame Sue Lee Dickens	National University of Singapore
PHRGOC24jul-0022	MOH-001788	Developing and Testing a Patient Decision Aid for Treatment Resistant Depression	Eric A. Finkelstein	Duke-NUS Medical School
PHRGOC24jul-0024	MOH-001786	From Exposome to Health Outcomes: A Population-Based Approach to Understanding and Mitigating Early Menopause in Singapore's Diverse Communities	Kothandaraman Narasimhan	Institute for Human Development and Potential
PHRGOC24jul-0026	MOH-001785	Multimodal speech parameters for mental health	Wilson Wen Bin Goh	Nanyang Technological University
PHRGOC24jul-0030	MOH-001767	An AI weight management program in type 2 diabetes: development, validation and evaluation of the Wabi program	Sabrina Wong Kay Wye	National Healthcare Group Polyclinics

Population Health Research Grant - New Investigator Grant (PHRG-NIG) 24 July Grant Call

Application ID	Project ID	Project Title	PI name	Host institution
PHRGNIG24jul-0002	MOH-001782	Implementing PROMs in routine clinical care (IPROMs)	Kwan Yu Heng	Singapore General Hospital
PHRGNIG24jul-0003	MOH-001765	Development of preference weights for the 10-item Singapore Caregiver Quality Of Life Scale	Lee Chun Fan	Duke-NUS Medical School
PHRGNIG24jul-0004	MOH-001766	Navigating feeding decisions in dementia: development of a caregiver decision aid	Helen Andres	Duke-NUS Medical School
PHRGNIG24jul-0012	MOH-001808	Prospective Validation of a Real Time Neurological Deterioration Risk Score for Management of Spontaneous Intracranial Haemorrhage	Goh Chun Peng	Ng Teng Fong General Hospital
PHRGNIG24jul-0018	MOH-001783	A model-based economic evaluation of a screening and stepped care intervention for the treatment of common mental health conditions among employees	Karen Keziah Arulsamy	Duke-NUS Medical School

Open Fund - Large Collaborative Grant (OFLCG) 24 May Grant Call

Application ID	Project ID	Project Title	PI name	Host institution
OFLCG24may-0020	MOH-001791	Mechanistic Investigation and Clinical Innovation for Sarcopenia Diagnosis and Therapy (MAGNET)	Corresponding PI: Yibin Wang Theme Pls: Teh Bin Tean, Chen Jinmiao, Han Weiping, Veronique Angeli, Yibin Wang, Hong Jing Han, Frederick Koh, Laura Tay, Samuel Chew, Justin Linghui Chew	Duke-NUS Medical School
OFLCG24may-0022	MOH-001792	Advancing precision medicine for cardiovascular disease and diabetes in Asian populations	Corresponding PI: John Chambers Theme Pls: John Chambers, Marie Loh, Cheng Ching-Yu, Sim Xueling	Nanyang Technological University
OFLCG24may-0025	MOH-001793	Singapore Gastric Cancer Consortium – Therapeutic Interception of Gastric Cancer	Corresponding PI: So Bok Yan Jimmy Theme Pls: Jonathan Lee, Yeoh Khay Guan, Wong Hei Sunny, Joseph Sung, Jimmy So, Johnny Ong, Yong Wei Peng, Patrick Tan	National University of Singapore
OFLCG24may-0026	MOH-001794	Singapore Parkinson's Disease Programme (SPARKLE)	Corresponding PI: Tan Eng King Theme Pls: Tan Eng King, Louis Tan, Lim Kah Leong, Zhang Suchun, Prakash Kumar	National Neuroscience Institute
OFLCG24may-0028	MOH-001795	Conquering Lung cancer Across all stages with Research and InnovatiON (CLARION)	Corresponding PI: Daniel Tan Theme Pls: Daniel Tan, Huang Yiqing, Amit Jain, Joe Yeong, Anders Skanderup, Liu Yong, Tam Wai Leong, Tee Wee Wei, Darren Lim, Gillianne Lai	National Cancer Centre Singapore

Open Fund - Individual Research Grant (OFIRG) 24 July Grant Call

Application ID	Project ID	Project Title	PI name	Host institution
OFIRG24jul-0024	MOH-001738	Recombinant Singapore Mistletoe Lectin (rSML): An Anti-Tumor Protein Agent Rendered by a Sialoglycan-Targeting Chitosan Scaffold	Liu Xuwei	Nanyang Technological University
OFIRG24jul-0025	MOH-001739	Harnessing the power of p53 for cancer prophylaxis	Kanaga Sabapathy	Nanyang Technological University
OFIRG24jul-0039	MOH-001740	Polymeric Nanogel Delivering mRNA to Lesional Macrophages for Synergistic Anti-oxidative and Anti-inflammatory Treatment of Atherosclerosis	Xiaoyuan Chen	National University of Singapore
OFIRG24jul-0041	MOH-001741	Mouse and non-human primate model evaluation of a single dose live attenuated Zika virus vaccine developed using a novel genome recoding approach	Chu Jang Hann Justin	National University of Singapore
OFIRG24jul-0049	MOH-001742	Deep learning-based neurodegeneration and cerebrovascular-related brain age to predict long-term outcomes of a multidomain lifestyle intervention in community-dwelling seniors - the SINGER study	Juan Zhou	National University of Singapore
OFIRG24jul-0053	MOH-001743	Designer natriuretic peptides as precision therapeutics against heart failure	Koh Cho Yeow	National University of Singapore
OFIRG24jul-0055	MOH-001744	A new reticulocyte population: unravelling its origin and role in malaria infection and erythropoietic stress responses	Renia Laurent Claude Stephane	Nanyang Technological University
OFIRG24jul-0073	MOH-001745	Addressing barriers to data in ophthalmology with generative artificial intelligence	Wong Wing Kee Damon	Singapore Eye Research Institute
OFIRG24jul-0076	MOH-001746	Senescent cell depletion to improve outcomes of chimeric antigen receptor immune cell manufacturing and therapies	Andy Tay Kah Ping	National University of Singapore
OFIRG24jul-0078	MOH-001696	Deciphering advanced colorectal cancer using new region-specific stem cell-driven mouse models	Nicholas Barker	Institute of Molecular and Cell Biology
OFIRG24jul-0086	MOH-001747	Exploring host innate immune system during human Plasmodium blood stage infection	Peter Rainer Preiser	Nanyang Technological University

OFIRG24jul-0089	MOH-001748	Compact and Cost-effective Optoretinography for High-throughput Assessment of Outer Retinal Dysfunctions	Ling Tong	Nanyang Technological University
OFIRG24jul-0093	MOH-001749	Elucidating the detrimental roles of astrocytic lipid dysregulation in Alzheimer's disease pathogenesis	Zeng Li	National Neuroscience Institute
OFIRG24jul-0094	MOH-001750	Investigating XAGE1B as a novel LLPS and transcriptional regulator in lung cancer	Tee Wee Wei	Institute of Molecular and Cell Biology
OFIRG24jul-0096	MOH-001697	Interrogating Immunogenicity of Adeno-Associated Viruses (AAVs) and CRISPR-Cas for Safer Therapeutics	Chew Wei Leong	Genome Institute of Singapore
OFIRG24jul-0097	MOH-001751	Targeting Vascular Dysfunction in Non-Small Cell Lung Cancer (NSCLC): Unraveling the Pivotal Role of Endothelial STARD8 in Tumor Progression and Therapeutic Prospects	Wanjin Hong	Institute of Molecular and Cell Biology
OFIRG24jul-0101	MOH-001710	Novel long noncoding RNA interactions with EZH2 as a new strategy to target drug resistance in multiple myeloma	Li Yinghui	Nanyang Technological University
OFIRG24jul-0103	MOH-001752	Biomanufacturing an allogeneic-hMSCs-derived Cartilage membrane and Investigating using Transcriptomic and Proteomic Approaches and Validating via Clinically Relevant Animal Models	Deepak Choudhury	Bioprocessing Technology Institute

Open Fund - Young Individual Research Grant (OFYIRG) 24 July Grant Call

Application ID	Project ID	Project Title	PI name	Host institution
OFYIRG24jul-0002	MOH-001719	Molecular mapping of genomic factors in host-microbiome interplay during MASH onset	Cheng Hong Sheng	Nanyang Technological University
OFYIRG24jul-0005	MOH-001720	Reprogramming a behavioural setpoint for neurodevelopmental disorder	Chenchen Song	Nanyang Technological University
OFYIRG24jul-0006	MOH-001711	Constructing the organ-immune interface in a human organoid model of kidney disease	Liu Meng	Nanyang Technological University
OFYIRG24jul-0013	MOH-001721	Precise functional measurements of synthetic lethal nodes in treatment-resistant non-small-cell lung cancer	Stephen Chong Jun Fei	National University of Singapore
OFYIRG24jul-0014	MOH-001712	Single-Cell Multiplex Assessment of Cardiac cell-type specific Cis-Regulatory Elements in Human Myocardial Infarction Heart Failure	Lee Chang Jie Mick	National University of Singapore
OFYIRG24jul-0016	MOH-001722	Dissecting the importance of cholesterol transport machineries for brain health	Tomoki Naito	Nanyang Technological University
OFYIRG24jul-0020	MOH-001723	Targeting serotonin signalling to boost HCC immunotherapy	Tay Rong En	Singapore Immunology Network
OFYIRG24jul-0022	MOH-001713	Designing LanCL1-Targeting Cyclic Peptides to Potentially Improve Chemotherapy of Hepatocellular Carcinoma	Liu Shi	National University of Singapore
OFYIRG24jul-0023	MOH-001724	Insights into Newborn Immune Response Signatures Conferring Susceptibility to Atopic Dermatitis using Cord Blood Single Cell RNA Sequencing	Ta Le Duc Huy	National University of Singapore
OFYIRG24jul-0026	MOH-001725	Regulation of Cav1.2 channel by deubiquitinases USP13 and USP5: Implications in vascular and neuronal dysfunction	Hu Zhenyu	National Neuroscience Institute
OFYIRG24jul-0027	MOH-001726	Mitigating Colorectal Cancer Development by investigating the role of Helios in anti-tumor intestinal tissue-resident Vg7 Gamma Delta intraepithelial lymphocytes	Weili Xu	Singapore Immunology Network
OFYIRG24jul-0029	MOH-001714	Harnessing LYVE1-expressing macrophages as a novel cellular target to manage endometriosis	Xie Liang	National University of Singapore
OFYIRG24jul-0031	MOH-001727	Deciphering invasion factors involved in zoonotic malaria.	Adeline Chua Chiew Yen	A*STAR Infectious Disease Labs
OFYIRG24jul-0032	MOH-001728	Unveiling genetic, epigenetic and environmental risk factors in early onset colorectal cancers through computational approaches leveraging on long read sequencing	Alvin Ng	Nanyang Technological University
OFYIRG24jul-0034	MOH-001715	Nur77 agonism reinvigorates natural killer cells for superior anti-tumor immunity in hepatocellular carcinoma	Neo Shi Yong	Singapore Immunology Network
OFYIRG24jul-0035	MOH-001729	Evaluating Lgr5/6-Expressing Cells as Prognostic Markers and Therapeutic Targets in Esophageal Squamous Cell Carcinoma (ESCC)	Lana Kostic	Institute of Molecular and Cell Biology

OFYIRG24jul-0039	MOH-001716	Uncovering the role of complex structural variations in the subtelomere for cardiovascular diseases and cancers.	Tan Kar Tong	National University of Singapore
OFYIRG24jul-0044	MOH-001730	Towards rationale vaccine design: Elucidating the transcriptional regulation of memory B cells and plasma cells differentiation	Zhang Biyan	Singapore Immunology Network
OFYIRG24jul-0052	MOH-001717	NIT2 Promotes Liver Metabolic Adaptation to High Fat Diet by Enhancing Mitochondrial Activity to Protect Against Non-Alcoholic Fatty Liver Disease	Muhammad Idris Bin Kachi Mydin	Institute of Molecular and Cell Biology
OFYIRG24jul-0054	MOH-001731	Inducible CHO Display Expression System for Accelerated Development of Bispecific Antibody Producing Cell Lines	Loh Han Ping	Bioprocessing Technology Institute
OFYIRG24jul-0056	MOH-001732	Enhancing the efficacy of chemotherapy for colorectal cancer through butyrate producing bacteria consortia	Kang Xing	Nanyang Technological University
OFYIRG24jul-0063	MOH-001718	Investigating the role of NIK in chronic inflammation.	Naveen Kumar	Institute of Molecular and Cell Biology
OFYIRG24jul-0065	MOH-001733	Identifying early determinants of childhood obesity mediated through host-microbiome interactions	Koh Wai Ling Hiromi	Institute of Molecular and Cell Biology