

NMRC Awarded Projects

Talent Development - January 2025 Grant Calls

Singapore Translational Research Investigator Award (STaR) 25 January Grant Call

Application ID	Project ID	Project Title	PI name	Host institution
STaR25jan-0003	MOH-001853	CAR-ing 4ALL: Improving outcomes of CAR T therapy for Acute Lymphoblastic Leukaemia and Lymphomas	Yeoh Eng Juh	National University of Singapore
STaR25jan-0004	MOH-001909	Transition from HBsAg abundance to functional cure and virological cure	Lim Seng Gee	National University of Singapore
STaR25jan-0006	MOH-001827	Novel Diagnostics and Therapeutics for Endemic Asian Cancers	Teh Bin Tean	National Cancer Centre Singapore

Clinician Scientist Award - Senior Investigator (CSASI) 25 January Grant Call

Application ID	Project ID	Project Title	PI name	Host institution
CSASI25jan-0003	MOH-001870	Strategies for Kidney Outcomes Prevention Evaluation (SKOPE)-MIND for Preservation of Cognitive Function- an embedded proof-of-concept RCT.	Professor Tazeen Jafar	Duke-NUS Medical School
CSASI25jan-0004	MOH-001871	Breast Cancer RiSk Prediction (BCRisP)	Bo Anders Mikael Hartman	National University of Singapore
CSASI25jan-0005	MOH-001872	Optimizing cell therapies for scalable and effective regenerative treatment of corneal stromal and endothelial disorders	Jodhbir S Mehta	Singapore Eye Research Institute
CSASI25jan-0006	MOH-001854	In Vivo Base and Prime Editing of Haemopoietic Stem Cells expressing Common Beta-Globin Mutations in Humanized Mouse Models derived from Transfusion-dependent Thalassaemia Patients using Non-Integrating Vectors: A Scalable Model for Screening and Prediction of Molecular Effects of Gene Modification Therapies	Citra Nurfarah Binte Zaini Mattar	National University of Singapore
CSASI25jan-0007	MOH-001873	Induced Pluripotent Stem Cell (iPSC)-Derived Erythroblasts as Models of Fetal Nucleated Red Blood Cells: A Novel Approach to Enhancing Cell Isolation and Whole Genome Sequencing for Noninvasive Prenatal Diagnosis	Mahesh Choolani	National University of Singapore
CSASI25jan-0009	MOH-001874	Microbiome Profiling in Uveitis: A Roadmap to Precision Therapies and Immune Modulation	Rupesh Agrawal	Tan Tock Seng Hospital

CSASI25jan-0012	-	Understanding mechanisms and developing new therapies for MASH effects on the heart	Paul M Yen	National Heart Centre Singapore
CSASI25jan-0013	-	Pooled tumour-directed antigen vaccines against Epstein Barr Virus Nasopharyngeal Carcinoma	Lim Chwee Ming	Singapore General Hospital

Clinician Scientist Award - Investigator (CSAINV) 25 January Grant Call

Application ID	Project ID	Project Title	PI name	Host institution
CSAINV25jan-0004	MOH-001905	Towards Healthy Ageing: Decoding Cognitive Frailty through Multimodal Markers	Saima Hilal	National University of Singapore
CSAINV25jan-0005	MOH-001855	The chicken or egg in Chronic Obstructive Pulmonary Disease (COPD): mucus dysfunction or microbial dysbiosis?	Sanjay Haresh Chotirmall	Nanyang Technological University
CSAINV25jan-0006	MOH-001867	Mapping the trajectory and prognosis of patients with mild-moderate traumatic brain injury – The NEurodegeneration & Understanding of Risk Overlay in Neuroimaging Study (NEURON) 3	Nicole Keong Chwee Har	National Neuroscience Institute
CSAINV25jan-0007	MOH-001835	Glycine supplementation as a novel treatment for metabolic dysfunction-associated steatotic liver disease	Tan Hong Chang	Singapore General Hospital
CSAINV25jan-0008	MOH-001929	Focal Therapy or Radical Therapy: A Phase II Trial validating the role of Molecular Profiling in Treatment Stratification for Early Prostate Cancer	Tay Kae Jack	Singapore General Hospital
CSAINV25jan-0009	MOH-001869	Defining the extent cross-reactive T cells protect against secondary heterologous dengue virus infection: Filling a major gap in knowledge of dengue immunity	Shirin Kalimuddin	Singapore General Hospital
CSAINV25jan-0012	MOH-001928	Enhancing Macrophage Phagocytosis through Dual Inhibition of CD73 and SIRPα Combined with Oxaliplatin for Treating Advanced Microsatellite Stable Colorectal Cancer	Lim Kiat Hon, Tony	Singapore General Hospital
CSAINV25jan-0013	-	Improving the diagnosis of Primary Aldosteronism to identify curable hypertension using novel opportunistic testing and biomarkers	Puar Hai Kiat	Changi General Hospital

HPHSR Clinician Scientist Award - Senior Investigator (HCSASI) 25 January Grant Call

Application ID	Project ID	Project Title	PI name	Host institution
HCSASI25jan-0002	MOH-001902	Improving Advance Care Planning processes and outcomes for patients with advanced cancer	Chetna Malhotra	Duke-NUS Medical School

HPHSR Clinician Scientist Award - Investigator (HCSAINV) 25 January Grant Call

Application ID	Project ID	Project Title	PI name	Host institution
HCSAINV25jan-0001	MOH-001921	Sepsis Optimal Recognition Toolkit in children (SORT): An early recognition tool for children in Asia	Chong Shu-Ling	KK Women's & Children's Hospital
HCSAINV25jan-0002	MOH-001919	Implementation Effectiveness of an AI-enabled mhealth application EMPOWER and InteGrated priMary care Ecosystem (EMPOWERING-ME) to improve outcomes in Type 2 Diabetes Mellitus patients - a hybrid type 2 cluster randomised controlled trial	Low Lian Leng	Singapore Health Services
HCSAINV25jan-0003	MOH-001927	Iterative Co-Design for Sustainable and Scalable Implementation of an AI-Driven Modular Platform	Tham Yih Chung	National University of Singapore
HCSAINV25jan-0004	MOH-001920	Implementation of a Patient & Caregiver Coaching Intervention for Patients with Advanced Cancer Undergoing Major Surgery: A Randomized Controlled Trial with Hybrid Type 1 Implementation Design	Jolene Wong	Singapore General Hospital
HCSAINV25jan-0006	MOH-001922	The Effectiveness of Multidisciplinary Protocolised Interventions to Reduce non-adherence rates (EMPIRE) in patients with chronic macula diseases receiving intravitreal injections: A randomised controlled trial	Cheng Sim Anna Tan	Singapore Eye Research Institute

Clinician Innovator Award - Senior Investigator (CIASI) 25 January Grant Call

Application ID	Project ID	Project Title	PI name	Host institution
CIASI25jan-0001	MOH-001926	Explainable Artificial Intelligence for Peripheral Blood Film Analysis	Fan Bingwen Eugene	Tan Tock Seng Hospital

Clinician Innovator Award - Investigator (CIAINV) 25 January Grant Call

Application ID	Project ID	Project Title	PI name	Host institution
CIAINV25jan-0001	MOH-001923	Developing an AI deep learning-based paThology solution for predictive biomArker predictionN for oncoloGy clinical trials allocation (DATANG)	Yeong Poh Sheng	Singapore General Hospital
CIAINV25jan-0005	MOH-001924	From Prototype to Full Deployment: A Comprehensive Deep Learning Pipeline for Whole-Spine MRI	James Thomas Patrick Decourcy Hallinan	National University Hospital
CIAINV25jan-0006	MOH-001937	Development and Validation of a Smartphone Application for Neonatal Jaundice Screening	Alvin Ngeow Jia Hao	Singapore General Hospital
CIAINV25jan-0008	-	Optimizing the Microvascular Coupler Device for Clinical Trials: An Integrated In Vitro and In Vivo Study	John Loh Ser Pheng	National University Hospital
CIAINV25jan-0016	MOH-001941	3D Printed Biphasic Osteochondral Plug for Treatment of Knee Osteoarthritis	Lincoln Liow Ming Han	Singapore General Hospital
CIAINV25jan-0017	MOH-001938	HeartIMPACT: An ultrasensitive and multiplexed IMMunoassay Platform for Advanced Cardiovascular Triage	Violet Hoon Hui Qing	Tan Tock Seng Hospital
CIAINV25janR-0001	MOH-001939	Development and Validation of an AI-enabled, Non-contact, Self-testing Tonometry Device	Victor Koh Teck Chang	National University Hospital

Transition Award (TA) 25 January Grant Call

Application ID	Project ID	Project Title	PI name	Host institution
TA25jan-0002	MOH-001836	Understand the Relationship between Visual Decline and Age-related Muscle Mass Loss (assessed using D3Cr technique) in Elderly Singaporeans	Preeti Gupta	Singapore Eye Research Institute
TA25jan-0003	MOH-001837	Combating Sarcopenia in Surgical Patients from Bench-to-bedside – a translational approach to improving the current understanding of sarcopenia in colorectal cancer patients.	Koh Hong Xiang Frederick	Sengkang General Hospital
TA25jan-0007	MOH-001918	A Novel Multi-Antigen Targeting Cellular Therapy Approach for AML	Bernice Oh	National University of Singapore
TA25jan-0009	MOH-001908	Clinical and biological relevance of clonally-related B cells and pre-plasma cells in multiple myeloma	Cinnie Yentia Soekojo	National University Hospital
TA25jan-0010	MOH-001851	Genotypic-phenotypic characterisation of KCNA2 drug-resistant epilepsy and novel treatment strategies	Ngoth Seow Fen Adeline	KK Women's & Children's Hospital
TA25jan-0012	MOH-001852	Enrichment of Next Generation Tumour Reactive Tumour Infiltrating Lymphocytes (TILs) in Solid Cancers for Adoptive Cellular Therapy (ACT)	Yien Ning Sophia Wong	National Cancer Centre Singapore

TA25jan-0013	MOH-001907	Understanding the role of RAD21 in treatment response and resistance in breast cancer	Valerie Heong Yue Ming	Tan Tock Seng Hospital
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NMRC Research Training Fellowship (Fellowship) 25 January Grant Call

Application ID	Project ID	Project Title	PI name	Host institution
RTF25jan-0007	MOH-001944	Investigating the potential of chimeric antigen receptor T cells as a desensitization strategy in patients with kidney failure	Wong Tsz Yeung, Emmett	National University Hospital
RTF25jan-0022	MOH-001952	Optimising Cardiovascular Risk Prediction Strategies for people with Familial Hypercholesterolemia	Hoe Kian Ming Jeremy	Khoo Teck Puat Hospital
RTF25jan-0021	MOH-001951	Optimising precision surgical resection and neurostimulation using personalized mapping of structural and functional connectivity	Liu Jiani Sherry	National Neuroscience Institute
RTF25jan-0012	-	Evaluating the Carbon Footprint of Acute Care Pathways and Strategies for Mitigation	Tan Bee Hua Michelle	Changi General Hospital
RTF25jan-0018	MOH-001949	Screening for undiagnosed glaucoma in the community using deep learning algorithms based on retinal photos	Raghavan Lavanya	Singapore Eye Research Institute
RTF25jan-0002	MOH-001932	Automated Surgical Planning in Chinese Orthognathic Surgery Patients	Lee Ker Jia Cheryl	National Dental Centre Singapore
RTF25jan-0016	-	Evaluating STAT3 inhibition by a novel Dsi-RNA compound in a humanized mouse model of gastric cancer peritoneal metastases	Chia Kai Ann, Daryl	National University Hospital
RTF25jan-0025	MOH-001953	Investigating Cardiometabolic Risk Factors and Cognitive Decline: A Longitudinal Study Using AI-Driven Predictive Models	Wee Jian-Ting Natalie	Khoo Teck Puat Hospital
RTF25jan-0020	MOH-001950	Pioneering locoregional therapy clinical decision support system for patients with hepatocellular carcinoma	How Guo Yuan	Tan Tock Seng Hospital
RTF25jan-0004	MOH-001942	"You sure or not?" Examining the Trust, Acceptance and Adoption of Falls risk – Artificial Intelligence Recommender (FAIR) system by nurses	Glass George Frederick Jr	Tan Tock Seng Hospital
RTF25jan-0026	MOH-001954	3D Printed Foot Insoles - Sole Much Better	Leow Wenxian Kimberley	Sengkang General Hospital
RTF25jan-0008	MOH-001945	Evaluating the clinical and imaging determinants for decision making in the biopsy of PI-RADS 3 lesions in detecting clinically significant prostate cancer	Nicole Kessa Wee Xin-Hui	Tan Tock Seng Hospital
RTF25jan-0028	MOH-001956	Upfront biopsy in suspected malignant pleural effusions	Goh Junyang Ken	Singapore General Hospital
RTF25jan-0009	MOH-001955	Establishment and use of robust assays for measuring functional antibodies binding to hemagglutinin (HA) and neuraminidase (NA) of multiple subtypes of influenza A virus in serological analysis of vaccinated and infected people in Singapore (NOFA: Novel assays for detection of Influenza A infections)	Matthew Koh Chung Yi	National University Hospital

RTF25jan-0010	MOH-001946	Long-term effects of doxycycline host-directed therapy on cardio-respiratory outcomes in patients with pulmonary TB	Srishti Chhabra	National University Hospital
RTF25jan-0005	MOH-001943	Genetic polymorphisms in drug-resistant epilepsy (GPE)	Tan Zhibin	National Neuroscience Institute
RTF25jan-0003	MOH-001933	Effectiveness of Whole Body Vibration Therapy and Usual care compared to Usual care in improving muscle mass, strength and function in Older Adults	Christine Chen Yuanxin	Changi General Hospital
RTF25jan-0011	MOH-001947	Blinatumomab Integration in Frontline Therapy for B-Cell Acute Lymphoblastic Leukemia: Harnessing T-Cell Dynamics to Improve Outcomes in Ma-Spore ALL Trials	SY Jann Adriel Chua	National University Hospital
RTF25jan-0013	MOH-001948	Renal Medicine Strategic Research Programme – Singapore Prevention and Retardation of Kidney Disease Study (SPARKS)	Lim Shaoying Regina	Tan Tock Seng Hospital
RTF25jan-0001	-	Research Training Fellowship to Support Singapore Biodesign Fellowship 2025	Adriel Leong Zhijie	Alexandra Hospital