

NMRC Awarded Projects Talent Development - November 2020 Grant Calls

Singapore Translational Research Investigator Award (STaR) 20 November Grant Call

Application ID	Project ID	Project Title	PI name	Host institution
STaR20nov-0003	MOH-000707	Validating Existing and Emerging Multi-modal Biomarkers of Vascular Cognitive Impairment	Christopher Chen	National University of Singapore
STaR20nov-0004	MOH-000708	Cell Therapy of Cancer	Dario Campana	National University of Singapore
STaR20nov-0008	MOH-000709	Advancing therapeutics against squamous cell carcinoma of the head and neck and endemic nasopharyngeal carcinoma	Goh Boon Cher	National University Hospital

Clinician Scientist Award - Senior Investigator (CSASI) 20 November Grant Call

Application ID	Project ID	Project Title	PI name	Host institution
CSASI20nov-0001	MOH-000671	Strategies for Kidney Outcomes Prevention and Evaluation - The SKOPE Study	Tazeen Jafar	Duke-NUS Medical School
CSASI20nov-0005	MOH-000668	Non-invasive Prenatal Diagnosis (NIPD) of genetic disorders using massive parallel sequencing on circulating fetal nucleated red blood cells (FNRBCs) isolated from maternal blood.	Mahesh Choolani	National University of Singapore
CSASI20nov-0006	MOH-000670	Reliable measurement of muscle mass, by a D3-creatinine dilution assay, to predict risk for osteoporosis and other major health outcomes as Singaporean women age.	Yong Eu Leong	National University of Singapore
CSASI20nov-0007	MOH-000669	DEVELOPMENT OF NOVEL THERAPEUTICS AND PREDICTIVE BIOMARKERS IN BREAST CANCER	Lee Soo Chin	National University Hospital
CSASI20nov-0008	MOH-000667	Precision Medicine on Head CT to Identify Neurodegeneration through Deep Learning-Based Segmentation Empowered with Brain MR Morphometry (PRECISE)	Chan Ling Ling	Singapore General Hospital

Clinician Scientist Award - Investigator (CSAINV) 20 November Grant Call

Application ID	Project ID	Project Title	PI name	Host institution
CSAINV20nov-0001	MOH-000710	Indoor air microbiomes as a gateway to exposome-guided precision medicine for respiratory disease	Sanjay Haresh Chotirmall	Nanyang Technological University
CSAINV20nov-0002	MOH-000711	Studying the Heterogeneity of Gestational Diabetes Mellitus: Cardio-Metabolic Alteration and Treatment Response in a Multi-Ethnic Population in Singapore (GDM-CARE)	Li Lingjun	National University of Singapore
CSAINV20nov-0003	MOH-000712	Pathogenesis and novel preventive treatment of pathological cutaneous scarring: role of SPARC and TH2 immunological milieu and treatment with siRNA-embedded dissolving microneedles	Tey Hong Liang	National Skin Centre
CSAINV20nov-0004	MOH-000713	Personalized rheumatoid arthritis therapeutic strategies incorporating dynamic observation of joint changes using ultrasound and thermal imaging modalities	Tan York Kiat	Singapore General Hospital
CSAINV20nov-0006	MOH-000694	A Smart Digital Workflow Towards High Precision and Throughput Production for Removable Partial Dentures	Yu Na	National Dental Centre Singapore
CSAINV20nov-0007	MOH-000654	Understanding Tumour Predisposition in Asia (UToPIA) Study: From Patient-Centred Research to the Clinic.	Joanne Ngeow Yuen Yie	Nanyang Technological University
CSAINV20nov-0011	MOH-000655	Personalizing Diabetic Retinopathy Screening Intervals via Risk Stratification using an Artificial Intelligence-Enabled Multi-modal Machine Learning Approach	Daniel Ting Shu Wei	Singapore Eye Research Institute
CSAINV20nov-0012	MOH-000714	Prospective study of biomarkers for diabetic kidney disease (DKD) progression in younger-onset type 2 diabetes – from biology-informed targeted proteomics to trans-omics.	Lim Su Chi	Alexandra Health Pte Ltd
CSAINV20nov-0014	MOH-000693	Design and testing of a novel respiratory dialysis system to reduce lung injury during mechanical ventilation, a safety and physiology study in a large animal model of hypercapnia	Matthew Cove	National University of Singapore
CSAINV20nov-0015	MOH-000687	MicroRNA-Mediated Neurodegeneration in Parkinson's Disease	Chao Yinxia	National Neuroscience Institute

CSAINV20nov-0016	MOH-000672	Novel Precision Technologies to correct β -Thalassaemia Major: In vivo Adeno-Associated Viral vector (AAV)-mediated Base-Editing of the commonest Asian IVS1-5 (G>C) mutation in Haemopoetic Stem Cells (HSC), utilising engineered AAV, personalised Humanised Mouse Models and in vitro HSC engineering to address Critical Translational Questions	Citra Nurfarah Binte Zaini Mattar	National University of Singapore
CSAINV20nov-0017	MOH-000715	Mechanisms and therapeutic relevance of the interaction between genotoxic chemotherapy and complement regulators in lymphoma	Anand Jeyasekharan	National University of Singapore
CSAINV20nov-0021	MOH-000716	Germline and Somatic Mutational Correlates of Tumour Aggression and Radioresistance in Nasopharyngeal Carcinoma	Melvin Chua Lee Kiang	National Cancer Centre Singapore

Clinician Innovator Development Award (CIDA) 20 November Grant Call

Application ID	Project ID	Project Title	PI name	Host institution
CIDA20nov-0001	MOH-000664	Rapid immune-profiling assay for real-time stratification of acute infections and sepsis	Kuan Win Sen	National University Hospital
CIDA20nov-0002	MOH-000666	Non-invasive right atrial pressure measurement	Lim Yinghao	National University Hospital
CIDA20nov-0003	MOH-000665	Predicting Future Hospital Bed States Using Length of Stay Predictor Based on Admission Text	Ngiam Kee Yuan	National University Hospital
CIDA20nov-0007	MOH-000663	Human-Centric Lighting Automated Control System for Light Optimization (HALO) at a Singapore Community Hospital	Low Sher Guan Luke	SingHealth Community Hospitals

Transition Award (TA) 20 November Grant Call

Application ID	Project ID	Project Title	PI name	Host institution
TA20nov-0001	MOH-000700	Characterizing early brain changes in midlife – a missing link to cognitive impairment in old age?	Saima Hilal	National University of Singapore
TA20nov-0008	MOH-000685	Gut microbiome-derived metabolites linking the gut microbiome to systemic inflammation and neuroinflammation in Asian Multiple Sclerosis and Neuromyelitis Optica Spectrum Disorder	Tianrong Yeo	National Neuroscience Institute of Singapore
TA20nov-0010	MOH-000625	Comparison of Focal Inner and Outer Retina Structure and Function to Accurately Diagnose Glaucoma in High Myopia Eyes	Rachel Chong Shujuan	Singapore Eye Research Institute
TA20nov-0011	MOH-000701	Focal Cryotherapy for Prostate Cancer: Does the Radiological-Molecular Landscape predict Oncological outcomes?	Tay Kae Jack	Singapore General Hospital
TA20nov-0014	MOH-000627	Study of epigenetic regulators of the tumor immune microenvironment of gastric cancer peritoneal metastases	Raghav Sundar	National University Hospital
TA20nov-0018	MOH-000702	Interrogating the proteogenomic landscape of pancreatic cancer for therapeutic biomarker discovery	Glenn Kunnath Bonney	National University Hospital
TA20nov-0020	MOH-000703	The Immune Microenvironment in Soft Tissue Sarcomas and Therapeutic Implications for Immunotherapy	Yang Shiwen Valerie	National Cancer Centre Singapore
TA20nov-0025	MOH-000628	Immuno-Oncology Pathways in Nasopharyngeal Carcinoma for Targeted Treatment	Tay Kai Xun Joshua	National University of Singapore

NMRC Research Training Fellowship (Fellowship) 20 November Grant Call

Application ID	Project ID	Project Title	PI name	Host institution
FLWSHP20nov-0001	MOH-000599	Evaluation Of Changes In Post-Trabecular Aqueous Outflow Pathways Using High Resolution Multimodal Imaging Platforms	Arun Kumar Narayanaswamy	Singapore Eye Research Institute
FLWSHP20nov-0002	MOH-000598	Distilling the bio-signatures and mechanisms underlying severe viral induced acute respiratory distress syndrome	Judith Wong Ju Ming	KK Women's & Children's Hospital
FLWSHP20nov-0003	MOH-000593	Identification and characterisation of the regulatory elements of muscle stem cells in reference to sarcopenia in patients with colorectal cancer	Koh Hong Xiang Frederick	Sengkang General Hospital
FLWSHP20nov-0004	MOH-000617	Defining a minimum threshold of T-cell immunity for protection against viral infection: An experimental medicine approach	Shirin Kalimuddin	Singapore General Hospital
FLWSHP20nov-0006	MOH-000594	Single Cell RNA Sequencing and Protein Expression Analysis of Tumor and Immune Cells of Multiple Myeloma Patients with Early Death and Long Survival	Cinnie Yentia Soekojo	National University Hospital
FLWSHP20nov-0007	MOH-000616	A Novel Cellular Immunotherapy Approach Combining a Compact Anti-GD2 molecule (IFL-GD2) with expanded, activated natural killer(NK) Cells and CD16-41BB-CD3zeta T-cells for childhood Neuroblastoma	Oh Lingzhi Bernice	National University of Singapore
FLWSHP20nov-0008	MOH-000609	Engineering probiotic to fight obesity: Modulating gut hormone level and increasing butyrate production to reduce appetite	Lim Yijuan Yvonne	National University Hospital
FLWSHP20nov-0009	MOH-000626	A Biodegradable Arterial-Centric Anastomosis Device for Microvascular Surgery	Loh Ser Pheng John	National University Hospital
FLWSHP20nov-0012	MOH-000623	Defining minimal residual disease through major pathologic response and biomarker discovery in early stage EGFR-mutated non-small-cell lung cancer treated with neoadjuvant osimertinib with/without chemotherapy (DISCOVER)	Saw Pei Li Stephanie	National Cancer Centre Singapore
FLWSHP20nov-0013	MOH-000621	Genetic variants of neurocognitive diseases in Singapore: From discovery to clinical applications	Ng Kok Pin	National Neuroscience Institute
FLWSHP20nov-0015	MOH-000624	PRIME-IOL: intraocular Pressure- and fundus Image-Exporting IntraOcular Lens for passive continuous monitoring of age-related eye conditions after cataract surgery	Chen Ziyu David	National University Hospital
FLWSHP20nov-0016	MOH-000596	Healthy Early Life Moments in Singapore (HELMS): Metabolic health and lifestyle intervention for overweight and obese women during preconception and pregnancy	Ku Chee Wai	KK Women's & Children's Hospital
FLWSHP20nov-0022	MOH-000695	Wnt signaling in fracture healing and bone regeneration	Chua Ser Kenon	Singapore General Hospital