

## NMRC Awarded Projects Talent Development - July 2022 Grant Calls

### Singapore Translational Research Investigator Award (STaR) 22 July Grant Call

Application ID	Project ID	Project Title	PI name	Host institution
STaR22jul-0001	MOH-001271	Defining how dengue virus "makes haste slowly" to enable a rational approach for engineering new live attenuated vaccine candidates	Ooi Eng Eong	Duke-NUS Medical School
STaR22jul-0004	MOH-001266	Preclinical Intrauterine Nanoparticle-based Gene Editing for Genetic Diseases	Chan Kok Yen Jerry	KK Women's & Children's Hospital

### Clinician Scientist Award - Senior Investigator (CSASI) 22 July Grant Call

Application ID	Project ID	Project Title	PI name	Host institution
CSASI22jul-0002	MOH-001283	Transforming Population Eye Health Research (Transformer) Program: From Data and Algorithms to Precision Health	Cheng Ching-Yu	Singapore Eye Research Institute
CSASI22jul-0003	MOH-001284	Characterizing the immune microenvironment to inform stratified immunotherapeutic approaches in MSS metastatic Colorectal cancer (MSS-mCRC)	Iain Tan Bee Huat	National Cancer Centre Singapore
CSASI22jul-0005	MOH-001270	The SenseHealth Research Programme: Untangling the complex relationship between the severity/laterality of age-related sensory decline, and frailty in elderly Singaporeans through novel risk factors, non-invasive biomarkers, patient-centred impact, and potential intervention targets to improve frailty outcomes.	Ecosse Lamoureux	Singapore Eye Research Institute

### Clinician Scientist Award - Investigator (CSAINV) 22 July Grant Call

Application ID	Project ID	Project Title	PI name	Host institution
CSAINV22jul-0007	MOH-001285	Paracrine factors and their inhibitors: A novel therapeutic strategy for peritoneal carcinomatosis	Ong Chin-Ann Johnny	National Cancer Centre Singapore
CSAINV22jul-0014	MOH-001286	Eradicating minimal residual disease using "off the shelf" Natural Killer (NK) cells for advanced nasopharyngeal cancer	Lim Chwee Ming	Singapore General Hospital
CSAINV22jul-0013	MOH-001287	Developing Individualised Bacteriophage-Antibiotic Combinations for Difficult-to-treat Bacterial Infections	Andrea Kwa Lay Hoon	Singapore General Hospital
CSAINV22jul-0003	MOH-001288	Explainable Artificial Intelligence for Glaucoma Detection	Jacqueline Chua	Singapore Eye Research Institute
CSAINV22jul-0004	MOH-001289	Programme for Ocular Inflammation & Infection Translational Research (PROTON)	Rupesh Agrawal	Tan Tock Seng Hospital

CSAINV22jul-0015	MOH-001290	The Singapore Platform for Controlled Human Infections with SARS-CoV-2 ('Sing-CoV')	Barnaby Edward Young	Tan Tock Seng Hospital
CSAINV22jul-0008	MOH-001291	High-Dimensional Approach to Understanding Immune Dysregulation in Lupus Towards Novel Therapy	Yeo Joo Guan	KK Women's & Children's Hospital
CSAINV22jul-0009	MOH-001293	Evidence-based lifestyle interventions for the delay of cognitive decline among older Singaporeans: cohort study and randomized controlled trial	Lei Feng	National University of Singapore
CSAINV22jul-0016	MOH-001292	Precision Medicine PDOX (Patient-derived orthotopic xenograft) Modelling of Brain Tumor Microenvironment in Craniospinal-Metastasizing Brain Germinoma Phenotypes for Preclinical Testing (PreClisionMOdELS 1.0)	Teo Wan-Yee	KK Women's & Children's Hospital
CSAINV22jul-0010	MOH-001301	Different strokes for different folks - Leveraging on community social networks for public health education on antibiotic use and antimicrobial resistance	Angela Chow	Tan Tock Seng Hospital
CSAINV22jul-0002	MOH-001233	Singapore Primary Angle Closure Evaluation and Diagnostics (SPACED) study	Monisha Esther Nongpiur	Singapore Eye Research Institute

#### HPHSR Clinician Scientist Award - Senior Investigator (HCSASI) 22 July Grant Call

Application ID	Project ID	Project Title	PI name	Host institution
HCSASI22jul-0001	MOH-001261	Supporting at-risk Mothers across perinatal period: A Randomized controlled Trial (SMART)	Shefaly Shorey	National University of Singapore
HCSASI22jul-0004	MOH-001204	23hr laparoscopic colectomy: From dream to reality? A step wise approach.	Tan Ker Kan	National University of Singapore

#### HPHSR Clinician Scientist Award - Investigator (HCSAINV) 22 July Grant Call

Application ID	Project ID	Project Title	PI name	Host institution
HCSAINV22jul-0001	MOH-001276	Evaluating the REal-World PATient-Reported and Economic Impact of Combined PHACO-MIGS Surgery (REWARD)	Ryan Man	Singapore Eye Research Institute
HCSAINV22jul-0002	MOH-001308	Impact of Machine Learning-based Clinician Decision Support Algorithms in Perioperative Care - A Randomized Control Trial (IMAGINATIVE Trial)	Hairil Rizal bin Abdullah	Singapore General Hospital
HCSAINV22jul-0004	MOH-001303	Giving the right treatment for the right patient. To define frailty in elderly cancer patients and to understand their preferences for care	Melissa Ooi Gaik Ming	National University Hospital
HCSAINV22jul-0005	MOH-001304	Urban care farming on living well and productive engagement of older adults	Chen Huijun Cynthia	National University of Singapore

### Clinician Innovator Award (CIA) 22 July Grant Call

Application ID	Project ID	Project Title	PI name	Host institution
CIAINV22jul-0003	MOH-001278	First-In-Human Feasibility Study For A Colonic Endoscopic Intraluminal Support Structure (CEISS) In Colonic Polypectomy	Kaan Hung Leng	National University Hospital
CIAINV22jul-0002	MOH-001279	Point-of-care Nocturia Evaluation - Improving the diagnosis and treatment of nocturia	Yong Jin	Singapore General Hospital

### Transition Award (TA) 22 July Grant Call

Application ID	Project ID	Project Title	PI name	Host institution
TA22jul-0001	MOH-001275	Fungal sensitization as a potential contributing factor to Chronic Obstructive Pulmonary Disease (COPD) deterioration	Tiew Pei Yee	Singapore General Hospital
TA22jul-0002	MOH-001274	The Role of Novel Auto-Antibodies in Idiopathic Small Fiber Neuropathy	Amanda Chee Yun Chan	National University of Singapore
TA22jul-0003	MOH-001272	Nanoparticle-assisted antisense oligonucleotide targeting Parkin as potential therapeutics for Parkinson's disease	Bin Xiao	National Neuroscience Institute
TA22jul-0005	MOH-001273	Precision BRAin COnectivity Profiling of Learning Difficulties (BRACO-LD)	Ai Peng Tan	National University of Singapore
TA22jul-0012	MOH-001297	Using sensors to detect mild cognitive impairment, early dementia and frailty among older adults living in the community: A proactive approach for healthy ageing	Iris Rawtaer	Sengkang General Hospital

### NMRC Research Training Fellowship (Fellowship) 22 July Grant Call

Application ID	Project ID	Project Title	PI name	Host institution
RTF22jul-0001	MOH-001295	Prefrontal cortical activity, impulsivity, and executive function in bipolar disorder: a functional near-infrared spectroscopy (fnirs) study	Teh Wen Lin	Institute of Mental Health
RTF22jul-0003	MOH-001294	Developing molecular biomarkers for dementia staging in a Singapore cohort of geriatric patients	Fong Sheng	Singapore General Hospital
RTF22jul-0006	MOH-001313	Evaluating the Role of Tumor-Associated Macrophages in the Response to Anti-CD38 Monoclonal Antibody Therapy in Multiple Myeloma	Widanalage Sanjay Prasad de Mel	National University Hospital
RTF22jul-0008	MOH-001300	A study of epidemiological trends, transcriptomic and immunological profiles of early-onset colorectal cancer in Singapore	Chen Hui Lionel Raphael	Singapore General Hospital
RTF22jul-0009	MOH-001307	Engineered extracellular vesicles for enhanced bone regeneration	Kumaran Rasappan	National University Hospital

RTF22jul-0010	-	Immunosenescence and mechanisms of attenuated vaccine response to SARS-CoV-2 in older adults	Vanda Ho	National University Hospital
RTF22jul-0013	-	Evaluating a novel locoregional immune-modulator in an immune-resistant mouse model of peritoneal metastasis	Chia Kai Ann, Daryl	National University Hospital
RTF22jul-0014	MOH-001298	Sequencing for pathogens in patients with suspected central nervous system infections	Goh Yihui	National University Hospital
RTF22jul-0019	MOH-001299	Decoding ischemic stroke mechanisms through a detailed analysis of the microstructure and composition of retrieved blood clots	JING MINGXUE	National University Hospital
RTF22jul-0020	MOH-001305	Inflammation, metabolism and body composition as physiological markers of homeostatic capacity in a 'vitality index' of ageing: a study of the vitality domain of intrinsic capacity and its impact on frailty, activity levels and life-space mobility	Justin Chew	Tan Tock Seng Hospital
RTF22jul-0021	MOH-001310	A pilot study on feasibility and efficacy of modified Crohn's disease exclusion diet in Asian adults with Crohn's disease	Tan Chin Kim	Changi General Hospital
RTF22jul-0022	MOH-001302	Duke-NUS Medical School Master of International Translational Medicine Degree	Mark Koh Jean Aan	KK Women's & Children's Hospital