

NMRC Awarded Projects Talent Development - November 2021 Grant Calls

Singapore Translational Research Investigator Award (STaR) 21 November Grant Call

| Application ID | Project ID | Project Title | PI name | Host institution |
|----------------|------------|---|---------------|----------------------------------|
| STaR21nov-0003 | MOH-001085 | Understanding and targeting the IL11/LKB1/AMPK/mTOR axis to extend healthspan | Stuart Cook | National Heart Centre Singapore |
| STaR21nov-0001 | MOH-001090 | PINNACLE : Precision ImmuNotherapy for Nash And Conquering Liver CancEr | Toh Han Chong | National Cancer Centre Singapore |

Clinician Scientist Award - Senior Investigator (CSASI) 21 November Grant Call

| Application ID | Project ID | Project Title | PI name | Host institution |
|-----------------|------------|---|--------------|----------------------------------|
| CSASI21nov-0004 | MOH-001170 | Tackling Fibrosis in Glaucoma Surgery | Tina Wong | Singapore Eye Research Institute |
| CSASI21nov-0002 | MOH-001104 | Epstein Barr Virus in ENKTL: Molecular Pathogenesis and Therapeutic Opportunity | Ng Siok Bian | National University of Singapore |
| CSASI21nov-0005 | MOH-001169 | Immunological approaches to Chronic Hepatitis B Functional Cure | Lim Seng Gee | National University of Singapore |

Clinician Scientist Award - Investigator (CSAINV) 21 November Grant Call

| Application ID | Project ID | Project Title | PI name | Host institution |
|------------------|------------|---|---------------------|----------------------------------|
| CSAINV21nov-0005 | MOH-001106 | Thermogel Enhanced Retinal Cell Therapy for Age-Related Retinal Degenerative Disease. | Su Xinyi | National University of Singapore |
| CSAINV21nov-0001 | MOH-001193 | A Multi-Centre Randomized Clinical Trial of Exercise to Retard Cardiovascular Ageing | Angela Su-mei Koh | National Heart Centre Singapore |
| CSAINV21nov-0003 | MOH-001105 | Diabetes mellitus and dysregulated angiogenesis in pulmonary tuberculosis | Catherine Ong | National University of Singapore |
| CSAINV21nov-0007 | MOH-001102 | A comprehensive study of NOTCH2NLC-related neurological disorders | Adeline Ng | National Neuroscience Institute |
| CSAINV21nov-0009 | MOH-001103 | Testing the Role of Peripheral Scleral and Choroidal Remodelling in Low, High and Pathologic Myopia | Quan Van Mahn Hoang | Singapore Eye Research Institute |
| CSAINV21nov-0010 | MOH-001180 | Investigation of drug induced toxic optic neuropathy using human stem cell derived retinal ganglion cells | Shweta Singhal | Singapore Eye Research Institute |
| CSAINV21nov-0006 | MOH-001168 | Evaluation of the Efficacy and Safety of Antibiotic Therapeutic Drug Monitoring (TDM) in Patients with Difficult-to-Treat Gram-Negative Bacterial (DT-GNB) Infections | Tze Peng Lim | Singapore General Hospital |

HPHSR Clinician Scientist Award - Senior Investigator (HCSASI) 21 November Grant Call

| Application ID | Project ID | Project Title | PI name | Host institution |
|------------------|------------|---|---------------------|----------------------------------|
| HCSASI21nov-0003 | MOH-001173 | Developing a Core Real World Dataset for Economic Evaluations of Oncology Therapies (RODEO) | Wee Hwee Lin | National University of Singapore |
| HCSASI21nov-0004 | MOH-001174 | Protecting feet at risk in people with diabetes (PREFERD) | Kavita Venkataraman | National University of Singapore |

HPHSR Clinician Scientist Award - Investigator (HCSAINV) 21 November Grant Call

| Application ID | Project ID | Project Title | PI name | Host institution |
|-------------------|------------|--|----------------|----------------------------------|
| HCSAINV21nov-0001 | MOH-001172 | AI-Assisted Visual Impairment Screening Model: Community-based Implementation and Evaluation of Performance, Feasibility and Costs | Tham Yih Chung | Singapore Eye Research Institute |

Clinician Innovator Award (CIA) 21 November Grant Call

| Application ID | Project ID | Project Title | PI name | Host institution |
|------------------|------------|--|------------------------|----------------------------|
| CIAINV21nov-0002 | MOH-001176 | Bringing iGauze, a prototype AI-vision based medical device from bench to bedside, in order to prevent Gossipyboma, reduce potential morbidity and | Tay Hsien Ts'ung | Singapore General Hospital |
| CIAINV21nov-0001 | MOH-001175 | SMARTRx (Safe Medication management platform augmented by ARTificial intelligence for Prescribers[Rx]) - A focus on Diabetic Patients | Ong Chiat Ling Jasmine | Singapore General Hospital |

Transition Award (TA) 21 November Grant Call

| Application ID | Project ID | Project Title | PI name | Host institution |
|----------------|------------|--|------------------------|----------------------------------|
| TA21nov-0001 | MOH-001145 | Improving Obstructive Coronary Artery Disease and Cardiovascular Risk Prediction Using Deep Learning Analysis on Coronary Artery Calcium Imaging | Lohendran Baskaran | National Heart Centre Singapore |
| TA21nov-0003 | MOH-001179 | A novel approach to identify Serious Bacterial Infections (SBIs) among febrile young infants: the Serious bacterial Infections in Febrile infants Toolkit (SIFT) | Chong Shu-Ling | KK Women's & Children's Hospital |
| TA21nov-0006 | MOH-001146 | NEUROprotection via optimizINg cerebral blood flow afTer cArdiaC arresT (NEURO-INTACT) study | Lim Shir Lynn | National University Hospital |
| TA21nov-0012 | MOH-001177 | Antimicrobial resistance in severe healthcare-associated infections - proposal for a patient registry | Mo Yin | National University Hospital |
| TA21nov-0018 | MOH-001196 | The Effect of Mesenchymal Stem Cell (MSC) Exosomes on Enhancing Meniscus Repair: A Translational Study towards Clinical Application | WONG KENG LIN, FRANCIS | Sengkang General Hospital |

NMRC Research Training Fellowship (Fellowship) 21 November Grant Call

| Application ID | Project ID | Project Title | PI name | Host institution |
|----------------|------------|---|----------------------|----------------------------------|
| RTF21nov-0001 | MOH-001131 | Cardiovascular Manifestations and Prognostic Outcomes of Non-Alcoholic Fatty Liver Disease (Master of Clinical Investigation) | Nicholas Chew | National University Hospital |
| RTF21nov-0003 | MOH-001164 | Singapore Biodesign Innovation Fellowship Training Programme | Liu Zhenghong | Singapore General Hospital |
| RTF21nov-0004 | MOH-001165 | Multimic analysis, Immune Profiling and T-cell Immunity in Persistent Human Papillomavirus (HPV) Skin Infection and Cutaneous Squamous Cell Carcinoma (cSCC) among Immunocompetent Hosts and Organ Transplant Recipients (OTRs) | Oh Choon Chiat | Singapore General Hospital |
| RTF21nov-0005 | MOH-001167 | Perioperative Preservation of Renal Function in the Non-Cardiac Surgical Population | Roderica Ng | Singapore General Hospital |
| RTF21nov-0006 | MOH-001133 | Advancing RNA-based Therapeutics for Inherited Retinal Dystrophies | WONG MEIHUA WENDY | National University Hospital |
| RTF21nov-0007 | MOH-001138 | Developing beta-lactam pharmacodynamic targets in Gram-negative bacteraemia using Physiologically based pharmacokinetic modelling (TARGET) | Ng Tat Ming | Tan Tock Seng Hospital |
| RTF21nov-0008 | MOH-001134 | Development of a multiparametric magnetic resonance imaging radiomic signature-based pre-operative scoring system for predicting risk of post-operative cerebellar mutism syndrome in paediatric medulloblastomas. | Tan Shao Ern Timothy | KK Women's & Children's Hospital |
| RTF21nov-0009 | MOH-001171 | The role of immune modulation in spontaneous bacterial peritonitis | Teh Kim Jun Kevin | Singapore General Hospital |
| RTF21nov-0010 | MOH-001178 | The role of the faecal microbiome in immune modulation in an Asian Inflammatory Bowel Disease (IBD) population. | Tay Shu Wen | Singapore General Hospital |
| RTF21nov-0011 | MOH-001139 | Transnasal CNS delivery of MDM2 and MDMX dual inhibitor using the Minimally Invasive Nasal Depot (MIND) technique | Chua Jian Kai Andy | Sengkang General Hospital |
| RTF21nov-0012 | MOH-001160 | Singapore Biodesign Innovation Fellowship Training Programme | Cheong May Anne | Singapore General Hospital |
| RTF21nov-0014 | MOH-001088 | Mild Cognitive Impairment in Adult Patients with Epilepsy (PWE): Elucidating the cognitive profiles and clinical risk factors of dementia among major epilepsy subtypes | Shen Jia Yi | National Neuroscience Institute |
| RTF21nov-0016 | MOH-001162 | Development of prognostication models for outcomes following resection of hepatocellular carcinoma using multi-modal healthcare data. | Tan Hwee Leong | Singapore General Hospital |
| RTF21nov-0017 | MOH-001135 | Robotic Mastectomy - A Pilot Study Assessing Surgical Outcomes, Health-Related Quality of Life and Patient Satisfaction | Mok Chi Wei | Changi General Hospital |

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| RTF21nov-0018 | MOH-001141 | Validation of a Hospital Frailty Risk Score and Association with Clinical Outcomes in Older Adults in Singapore | Tan Li Feng | Alexandra Hospital |
| RTF21nov-0020 | MOH-001166 | Singapore Biodesign Innovation Fellowship Training Programme | Hoon Hui Qing Violet | Tan Tock Seng Hospital |
| RTF21nov-0021 | MOH-001153 | Using health technology assessment to assess direct and indirect impacts of life-course vaccination and increase adult vaccination compliance in Singapore | Louisa Sun | Alexandra Hospital |
| RTF21nov-0023 | MOH-001161 | Study of secondary squamous cell carcinoma of the head and neck after definitive radiotherapy+/- chemotherapy for nasopharyngeal carcinoma | Jia Li Low | National University Hospital |
| RTF21nov-0024 | MOH-001163 | Single centre prospective evaluation of Gallium-68 FAPI-46 PET/MRI in Hepatocellular Carcinoma compared to standard of care evaluation | Robert John Walsh | National University Hospital |