University Surgical Cluster



National University Health System

Grants (Year 2018)

No	Research Title	Principal Investigator (PI) / Co-Investigator (Co-I) / Collaborator	Actual Funding to USC	Funding Source				
	Breast & Trauma Surgery							
1	An Al Assistant to Radiologists that Reads Mammograms to Automatically Detect Breast Cancers and Generate Diagnostic Reports: a Technology Combines the Learning of Images and Free Text	PI – Mengling Feng Co-Pls – Mikael Hartman, Ngiam Kee Yuan, Sterling Ellis Eide, Teo Sze Yiun	-	NMRC Health Services Research Grant (HSRG) (\$ 1,039,554)				
	Cardiac, Thoracic & Vascular Surgery							
1	Assessment of Foot Pressure for Managing Diabetic Foot Ulcers (DFUs) in the Elderly	PI – Lim Chwee Teck, Chia Lye Peng Co-PI – Jackie Ho Pei	\$ 536,925	MOH National Innovation Challenge on Active and Confident Ageing Enabling Innovation Grant (\$ 1,795,721)				
2	Atrial Retractor for Easier, Safer and Overall Better Minimally Invasive Heart Surgery	PI – Theodoros Kofidis	\$ 299,000	NUS ILO Technology Acceleration Programme (TAP) Grant				
3	Wound Care Innovation for the Tropics	PI – Zee Upton Co-PIs – David Becker, Ellen Birgitte Lane, Teoh Swee Hin, Jackie Ho Pei, Tracy Carol Ayre Collaborator – Rajesh Babu	\$ 265,092	Biomedical Research Council Health & Biomedical Science Industry Alignment Fund (Pre-Positioning) (\$ 21,879,720)				
4	A Human-Like, Individualized Atrioventricular (Mitral) Valve Prosthesis: "SingValve"	PI – Theodoros Kofidis	\$ 250,000	NHIC Innovation to Development (I2D) Grant - I2START Program				
5	Vascular Smooth Muscle Genes Modulation to Control Atherosclerosis Progression	PI – Sorokin Vitaly Co-PI – Veronique Angeli	\$ 179,900	NUHS Joint Grant Call T1- NUHS Joint Grant Call FY17 - 2nd call				
	Colorectal Surgery							
1	Beyond Surviving Colorectal Cancer: How Cancer Survivors Can Influence the Attitudes of their Family Members Towards Screening and Play a Role to Support those with Cancer	PI – Tan Ker Kan	\$ 180,000	NMRC Clinician Scientist / Clinician Investigator Salary Support Program				
2	The Effectiveness of an Interactive Colorectal Cancer Self-Management Enhancement Smartphone-based Psychosocial Intervention Prorogramme (iCanManage) on Outcomes of Patients with Colorectal Cancer and their Family Caregivers: A Multicenter Randomised-Controlled Trial	PI – He Hong Gu Co-I – Chong Choon Seng	-	Singapore Cancer Society Cancer Research Grant 2018 (\$ 145,000)				

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Grants (Year 2018) - cont

No	Research Title	Principal Investigator (PI) / Co-Investigator (Co-I) / Collaborator	Actual Funding to USC	Funding Source			
	General Surgery						
1	Targeted Inhibition of Ceramide Production in Acute Myocardial Infarction	PI – Wang Jiong-Wei Co-I – Christopher John Charles Collaborators – Lee Chuen Neng, Glenn Bonney	\$ 211,331	NMRC Open Fund - Young Individual Research Grant			
2	Establishing Safely and Effectiveness of a Novel Free-Text Reading Artificial Intelligence Tool for Diagnosing Appendicitis at the Emergency Department	PI – Ngiam Kee Yuan Co-PIs – Ng Hwee Tou, Chua Mui Teng	\$ 195,000	NUHS Clinician Scientist Program			
3	The Gut-Foot Axis - Does it Exist?	PI – Rufaihah Binte Abdul Jalil Co-I – Julian Wong, Lee Yuan Kun, Ng Jun Jie	\$ 100,000	NUS BIGHEART & NUS ODPRT Microbiome in Health, Disease and Ageing - Joint Research Grant Call			
4	A Method and Apparatus for Providing a Probability of Acute Appendicitis (medical diagnosis) from Clinical Free Text	PI – Ngiam Kee Yuan	\$ 5,000	NHIC I2P Grant Application for Stage 1			
5	Uncoupling Thrombosis and Haemostasis in Patients Needing Combination Antiplatelet and Anticoagulant Therapy	PI – Mark Chan Co-I – Wang Jiong-Wei, Pipin Kojodjojo, R. Manjunatha Kini, Christopher John Charles, Jun Li, Christina Yip Collaborators – Newby David, Becker Richard		NMRC Clinician Scientist – Individual Research Grant (CS-IRG) (\$ 1,446,278)			
6	Characterization of the Functions of Tjp1 and Tjp2 in the heart	PI – Walter Hunziker Co-Is – Wang Jiong-Wei, Xu Jianliang, Carolyn Lam Collaborators – John E Connolly, Dominicus PV de Kleijn	-	NMRC Open Fund – Individual Research Grant (OF-IRG) (\$ 998,990)			
7	Evaluating the Cardioprotective Potential of Ergothioneine against Anthracycline Cardiotoxicity	PI – Barry Halliwell Co-I – Ling Lieng-Hsi, Christopher John Charles Charles, Lee Soo Chin, Wang Jiong-Wei, Irwin Cheah	-	MOE Academic Research Fund Tier 1 (\$ 179,716)			
8	The influence of the Amniotic Fluid Stem Cell secretome on cardiomyocyte cellular behaviour	PI – Citra Nufarah Zaini Mattar Co-I – Rufaihah Binte Abdul Jalil Collaborator – Tatsanee Phermthai		MOE Academic Research Fund Tier 1 (\$ 172,000)			

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Grants (Year 2018) - cont

No	Research Title	Principal Investigator (PI) / Co-Investigator (Co-I) / Collaborator	Actual Funding to USC	Funding Source			
Hepatobiliary & Pancreatic Surgery							
1	Peptido-proteomic Based Platforms for Real-time Biomarker Discovery	PI – Glenn Bonney, Luke Lee	\$ 1,200,000	Buker Daltonik GMBH			
2	Peptido-proteomic Based Platforms for Real-time Biomarker Discovery	PI – Glenn Bonney	\$ 195,000	NUHS Clinician Scientist Program			
3	The Function and Mechanism of IL-1a Secretion in the Tumor Microenvironment	PI – Liu Haiyan Co-I – Liu Jinhua Collaborators – Valeri Chew Suk Peng, Glenn Bonney		MOE Academic Research Fund Tier 2 (\$ 811,954)			
	Plastic, Reconstructi	ve & Aesthetic Surg	jery				
1	Evaluation of A Novel Wound Dressing Patch for Acute Wounds in the Elderly	PI – Fong Chui Yee Co-Is – Arjit Biswas, Ariffeen Bongso, Mahesh Choolani, Ng Kwok Weng, Harvard Zhenjia Lin, Jane Lim, Lim Thiam Chye. Yap Yan Lin, Lee Hanjing		MOE Academic Research Fund Tier 1 (\$ 179,900)			
	Upper Gastroir	ntestinal Surgery					
1	Pemf theRapy fOr the Management of dlabetes in obeSe patiEnts (PROMISE): a Pilot Randomized Controlled Trial	PI – Asim Shabbir Collaborator – Alfredo Franco- Obregon Co-Is – Khoo Chin Meng, Kristy Purnamawati, Rina Malathi	\$49,900	NUHS Centre Grant Seed Funding			
2	Ensemble of Multi-disciplinary Systems and Integrated Omics for NAFLD (EMULSION) diagnostic and therapeutic discovery	PI – Ng Huck Hui Dan Yock Young Co-Is – Luke Pyungse Lee, Hanry Yu, Qingfeng Chen, Torsten Wuestefeld, Christine Cheung, George Goh Boon Bee, Yang Wei Lyn, Asim Shabbir & et al		BMRC Industry Alignment Fund (Pre-Positioning) (\$ 4.691,070)			
	Urc	ology					
1	An Observational Study of Efficacy and Utility of Cxbladder Tests in the Identification of Low vs High Risk Patients and the Detection of Urothelial Carcinoma in Patients Presenting with Haematuria	PI – Wu Qing Hui	\$ 300,000	Pacific Edge Pty Ltd			
2	The Functional Significance of the Glutathione-S-transferase Theta 2 (GSTT2) in the Response to BCG Immunotherapy	PI – Ratha Mahendran Co-PIs – Edmund Chiong	\$179,600	NUHS Joint Grant Call			
3	Evaluation of the Safety and Efficacy of Extracorporeal Shockwave Therapy (ESWT) of the Perineum, for Male Patients with Chronic Pelvic Pain Syndrome (CPPS IIIa/b)	PI – Joe Lee King Chien	\$ 63,800	Dornier MedTech Asia Pte Ltd			
4	Perturbed Tryptophan-Kynurenine Pathway in Bladder Cancer: an Opportunity to Develop Surveillance Biomarker and Immunotherapeutic Target	PI – Kesavan Esuvaranathan Co-PIs – Eric Chan Chun Yong, Ratha Mahendran, Edmund Chiong, Thomas Paulraj Thamboo	\$ 50,000	NUHS Innovation Grant			