

Grants (Year 2019)

No	Research Title	Principal Investigator (PI) / Co-Investigator (Co-I) / Collaborator	Actual Funding to USC	Funding Source
Cardiac, Thoracic & Vascular Surgery				
1	Wound Care Innovation for the Tropics Establishment of A Wound Registry in Singapore	PI – Zee Upton Co-Is – Jackie Ho Pei , Joseph Low, David Carmody Collaborators – Rajesh Babu Dharmaraj , Khoo See Meng, Diane Eng, Chong Tze Tec, Tracy Carol Ayre, Ang Shih Yuh, Fazila Binte Abu Bakar Aloweni, Maureen Fallon	\$ 120,676	A*STAR Industry Alignment Fund (Pre-Positioning) (\$ 792,216)
2	Prediction and Evaluation of Foot Ulcer Through Non-invasive Quantitative Tissue Perfusion Assessment in Diabetic Patients	PI – Malini Olivo Co-Is – Jackie Ho Pei , Renzhe Bi, Yao Du	\$ 75,000	A*STAR Industry Alignment Fund (Pre-Positioning) (\$ 271,200)
3	Development of a Novel Wound Debridement Device	PI – Wang Linfa Co-Is – Unnikrishnan Unniyampurath, Rajesh Babu Dharmaraj , Ajay Purushothaman Nambiar Collaborators – Manoj Krishnan, Pradeep Paul	-	SMART Innovation Centre Innovation Grant (\$ 244,240)
Colorectal Surgery				
1	Identification and Characterization of Dedifferentiating Colorectal Cancer Transcriptomic Targets Using Single Cell RNAseq	PI – Dedrick Chan	\$ 606,234	NMRC Research Training Fellowship
2	COLOR III: A Multicentre Randomised Clinical Trial Comparing Transanal Total Mesorectal Excision (TME) Versus Laparoscopic TME for Mid and Low Rectal Cancer	PI – Chong Choon Seng	\$ 93,800	NUHS Seed Fund Grant
3	Clinician Scientist / Clinician Investigator Salary Support Programme	PI – Dedrick Chan	\$ 28,333	NMRC
General Surgery				
1	Noninvasive metabolic activation of muscle & fat for treatment of obesity & T2DM	PI – Alfredo Franco-Obregón	\$ 974,891	MOE Academic Research Fund Tier 2
2	Speech to Semantic Transcription for Healthcare Applications	PI – Ngiam Kee Yuan Collaborators – Li Haizhou	\$ 750,000	NUS & NUHS Health Innovation Programme -HIP Grant
3	NUS Startup Grant	PI – Gerrit Storm	\$ 316,800	NUS ODPRT & NUS Med Start Up Grant
4	Novel Drug Formulations Targeting the Ceramide Pathway in Atherosclerosis: a feasibility study	PI – Wang Jiong-Wei Co-Is – Veronique Angeli, Giorgia Pastorin, Mark Chan, Vitaly Sorokin	\$ 94,000	NUHS Seed Fund
5	Novel Effective Breast Cancer Therapeutics Utilising Non-Invasive Pulsed Electromagnetic Field	PI – Karen Chan Ka Wing	\$ 50,000	MOH Clinician Scientist Residency Seed Funding
6	Using A Robotic Endoscope to Perform Appendicectomy	PI – Kaan Hung Leng	\$ 50,000	MOH Clinician Scientist Residency Seed Funding
7	Human Umbilical Cord-Lining Derived Induced Pluripotent Stem Cells (CLiPS) as a Universal Source of Cells for Regenerative Therapy for Neurosensory Disorders	PI – Lim Kah Leong Co-PI – Phan Toan Thang	-	National Research Foundation Competitive Research Programme 21 (\$ 9.3 mil)
8	Rejuvenating LYVE-1 Expressing Macrophage for Ageing-Related Arterial Stiffness	PI – Veronique Angeli Collaborators – Wang Jiong-Wei , Florent Ginhoux, Thiruma Valavan Arumugam	-	MOE Academic Research Fund Tier 2 (\$ 942,800)

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Hepatobiliary & Pancreatic Surgery				
1	Response in Emergency Safety and Civil strUcture Evaluation (RESCUE)	PI – Alfred Kow Co-Is – Yeoh Ker-Wei, Goh Yang Miang	\$ 312,000	NUS Learning Innovation Fund (Technology) LIFT
2	Peptido-proteomic Based Platforms for Real-time Biomarker Discovery	PI – Glenn Bonney	\$ 195,000	NUHS Clinician Scientist Program
3	Transcriptomic, Phenotypic and Functional Characterization of Human Pancreatic and Gastric Tumours	PIs – Glenn Bonney , Raghav Sundar	\$ 185,620	Merck Sharp & Dohme Corp. Industry Collaboration Grant (\$ 1,627,370)
4	PAtient Safety aS Inter-Professional Training (PASS-IT)	PI – Alfred Kow	\$ 106,000	NUS Learning Innovation Fund (Technology) LIFT
5	Personalizing Therapy in Pancreatic Cancer - Biomarkers of Disease Biology and Chemotherapeutic Sensitivity	PI – Glenn Bonney Co-Is – Lawrence Ho Khek Yu, Chee Cheng Ean, Gwyneth Soon, Claire Chew Collaborators – Edward Chow, Chan Shing Leng	\$ 100,000	NUS BIGHEART Precision Medicine & Personalised Therapeutics Seed Grant
6	Healthcare Economics Awareness Learning (HEALING)	PI – Alfred Kow Co-Is – Gao Yujia , Tan Ze Ying	\$ 70,000	NUS Learning Innovation Fund (Technology) LIFT
7	iHealthtech Startup Grant	PI – Glenn Bonney	\$ 60,000	NUS iHealthtech Institute Core Fund
8	Prodrug Converting Matrix Implant for The Treatment of Resected Tumor Margin	PI – Chester Drum Collaborators – Nic Lindley, Glenn Bonney	-	National Health Innovation Centre (NHIC) Innovation to Develop (I2D) Grant (\$ 250,000)
Neurosurgery				
1.	Triple therapy prevention of Recurrent Intracerebral Disease EveNts Trial (TRIDENT)	Site PI – Vincent Nga	\$ 148,409	National Health and Medical Research Council (NHMRC) of Australia (through The George Institute for Global Health)
2.	Development of the Singapore Linguistic Intraoperative Protocol (SLIP): Improving Bilingual Language Outcomes in Awake Brain Surgery and Validation of Subcortical Language Networks in Bilingual Individuals	PI – Teo Kejia Co-Is – Chan Hui Minn, Will Loh, Colin Teo , Emily Guo, Calvin Lam, Yeo Tseng Tsai , Johnson Fam	\$ 50,000	NUHS Centre Grant Seed Funding
Plastic, Reconstructive & Aesthetic Surgery				
1	Preclinical Evaluation of Surgical Therapy for Mandible Defects in Pigs	PI – Lim Thiam Chye Co-PIs – Elijah Cai , Chance Goh Collaborator – Lim Jing	\$180,000	NTUitive NAMIC@NUS Programme - National Additive Manufacturing Innovation Cluster @ NUS

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Upper Gastrointestinal Surgery				
1	Singapore Gastric Cancer Consortium – Bringing Discoveries to Patients Theme 3: Peritoneal Carcinomatosis	PI – Yeoh Khay Guan Co-PIs – Jimmy So , Melissa Teo Co-Is – Yong Wei Peng, Patrick Tan, Asim Shabbir , Bettina Lieske , Tan Hon Lyn, Kim Guowei , Chee Cheng Ean, Ong Hock Soo, Jaideepraj Rao, Aung Myint Oo, Andrew Wong, Soon Yuen, Shao Huilin, Johnny Ong, Raghav Sunder, Iain Tan Collaborator – Marc Reymond	\$ 5,030,000	NMRC Open Fund-Large Collaboration Grant May 2018 Grant Call (\$ 25,000,000)
2	Phase 1 study of Pressurized IntraPeritoneal Aerosol Chemotherapy (PIPAC) with Paclitaxel in Peritoneal Carcinomatosis for Gastric Cancer	PI – Kim Guo Wei	\$ 200,000	NMRC Clinician-Scientist Individual Research Grant New Investigator Grant
Urology				
1	Urology Cancer Research: - Data Management & Analytics - Preclinical Evaluation to Phase 1 Trial to Improve the Response of Bladder Cancer Patients - A Phase 1 Trial to Evaluate Optimal Abiraterone Dosage for Patients - A Phase I/II Clinical Trial to Evaluate the Impact of Vitamin D and DNA Methylation on Response to BCG Therapy	PI – Edmund Chiong Co-Is – Kesavan Esuvaranathan , Ratha Mahendran	\$1,918,419	Gift from the Estate of the late Dr Joseph Lim Boon Tiong