

DEPARTMENT OF SURGERY

Grants (Year 2014)

No	Research Title	Principal Investigator (PI) / Co-Investigator (Co-I) / Collaborator	Funding Source
Breast & Trauma Surgery			
1	Peptide Coated Biocompatible and Highly Stable Superparamagnetic Iron Oxide Nanoparticles Conjugated with Anti-HER2 Antibodies for Targeted In Vivo Therapy and Diagnostic of Breast Cancer	<i>Project Leader</i> – David Paramelle <i>Lead Investigator</i> – Kishore Bhakoo <i>Collaborators</i> – Dave Fernig, Mikael Hartman , Lionel Low	3rd JCO Career Development Award (CDA) Grant Call
Cardiac, Thoracic & Vascular Surgery			
1	Evaluation of a Novel Preferential Covered Stent Capability of Emboli Prevention and Side Branch Flow Preservation using Swine Model	<i>PI</i> – Jackie Ho Pei <i>Co-Is</i> – Fangsen Cui, Evelyn Yim, Lee Chi-Hang, Jonnathan Libao Peneyra, Dominique PV de Kleijn , Leo Hwa Liang	NMRC Clinician Scientist - Individual Research Grant CSIRG Nov 2013 Grant Call
2	Minimally-invasive, Thoracoscopic-ally Implantable Cardiac Assist Device for Palliative Care of the Elderly with Failing Hearts	<i>PI</i> – Winn Maung Maung Aye <i>Tech PI</i> – Yap Choon Hwai	Singapore Millennium Foundation (SMF) 4th Grant Call
3	Differential Gene Expression of Aortic Wall Tissue from Patients with Low Syntax Score and High Syntax Score: A Class Comparison Study to Investigate the Genomic Regulation of Different Pattern of Coronary Lesions	<i>PI</i> – Sorokin Vitaly	NUS Start-up Grant
4	Prototype and Delivery System Optimization of a Novel Covered Stent for Treatment of Athero-embolic Arterial Disease	<i>Lead Tech co-PI</i> – Leo Hwa Liang <i>Lead Clinical co-PI</i> – Jackie Ho Pei <i>Co-Is</i> – Fangsen Cui, Dominique PV de Kleijn , Foad Kabinejadian, Victor Chao Tar Toong <i>Collaborators</i> – Gary Ng Sum Huan, Jonnathan Libao Peneyra	A*Star Biomedical Engineering Program (BEP) 2013
5	Robotic Catheter for Minimally Invasive Cardiovascular Surgery Based on Intravascular Ultrasonic Sensing	<i>Med PI</i> – Winn Maung Maung Aye <i>Tech PI</i> – Yap Choon Hwai <i>Co-PI</i> – Yu Haoyong	NUS Engineering-Medicine Seed Grant Call 2013
Colorectal Surgery			
1	Is Hybrid Positron Emission Tomography Magnetic Resonance Imaging (PET-MRI) an Accurate Modality for Evaluation of Rectal Cancer Patients after Chemoradiotherapy?	<i>PI</i> – Thian Yee Liang <i>Co-PI</i> – Tan Ker Kan , Jeremy Tey <i>Co-I</i> – Loi Hoi Yin, Ng Thian, Koh Dow-Mu	NCIS Centre Grant Seed Funding Program (Nov 2013 Grant Call)
2	Isolation and Characterisation of Fusobacterium Nucleatum Isolates from Colonic Tumour Tissues and Dental Plaque	<i>PI</i> – Jacinta Xiaotong Lu <i>Co-PI</i> – Ridzuan Farouk , Reuben Wong	NUH Clinician Scientist Research Grant
3	Evaluation of the Effect of Chemotherapy on Cognitive Function in Colorectal Cancer Patients using PET/MRI	<i>PI</i> – Evelyn Siew-Chuan Koay <i>Co-Is</i> – Sai Mun Leong, Cheong Wai Kit , Bettina Lieske <i>Collaborator</i> – Mo-Huang Li	NCIS Endowment Fund & HREF Cancer Fund
4	Circulating Tumour cell (CTC)-based Companion Colorectal Cancer Diagnostics with MicroRNA Biomarkers for Prognosis and Therapy Prediction	<i>PI</i> – Yong Wei Ping <i>Co-Is</i> – Fatima Nasrallah, Cheong Wai Kit , Bettina Lieske <i>Collaborator</i> – Tan Sing Huang, Mikael Hartman	NUHS Bench-to-Bedside-To-Product

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General Surgery			
1	Improving Outcomes in Acute Myocardial Infarction Through Reversal of Early and Late Cardiac Remodeling. (IMMACULATE STUDY)	PI – Dominique PV de Kleijn	NMRC STAR Award
2	Toll-like Receptor 2 as a Therapeutic Target in Heart Failure	PI – Carolyn Lam Co-PI – Dominique PV de Kleijn	NMRC Clinician Scientist - Individual Research Grant
3	Bridging Discovery to Development of a Novel Direct Thrombin Inhibitor	PI – Mark Chan Co-PI – Dominique PV de Kleijn	NMRC Clinician Scientist - Individual Research Grant
4	Modulation of CaV1.2 Channel Function in Heart Failure	PI – Soong Tuck Wah Co-PI – Dominique PV de Kleijn	Partner Grant
5	Development of an Image Acquisition Methodology in a Swine Model of Myocardial Infarction Using Cardiac Magnetic Resonance Imaging (MRI) and its Application to Monitor Disease Phenotypes Longitudinally	PI – Dominique PV de Kleijn	MSD International GmbH
6	Forward-Sensing Intravascular Tactile Sensor (IVTS): Endovascular Guidewire Intervention	PI – Benjamin Chua Co-PI – Tan Ee Lim Co-I(s) – Melvin Loh , Leo Hwa Liang, Cheng Ming Yuan	A*Star BEP 2013 Proof of Concept Grant
7	Application of Pulsed Electro Magnetic Fields (PEMFs) using a Clinical MRI scanner for improving Muscle Mass and Function in Patients with Lower Limb Fractures	PI – Alfredo Franco-Obregon Collaborators - Mary C. Stephenson Teresa Totman Michelle Loh Wen Lin Michele Bailey Trina Kok	NUHS-CG CIRC Seed Funding Grant Call Y2013
8	Pulsed Electromagnetic Field (PEMF) Systems to Promote the Maintenance of Bone and Muscle	PI – Alfredo Franco-Obregon Co-I – Asim Shabbir, Melvin Loh	Singapore-MIT Alliance for Research and Technology (SMART) Ignition Grant
9	The Impact of Ligation of Intersphincteric Fistula Tract (LIFT) Surgery on Continence: A Prospective Study	PI – Celene Ng Mentor – Tan Ker Kan	NUHS Clinician Scientist Program Residency Award
10	Making The Cut - A Collaborative Interactive Web-based App for General Surgical Training	PI – Ngiam Kee Yuan	NUHS Innovation & Creativity in Education Award
11	Helix Pomantia Agglutinin Binding Glycoproteins in Adrenocortical Carcinoma	PI – Rajeev Parameswaran Co-I – Tan Wee Boon , Nga Min En	Pitch for Fund Round May 2014 Merit Award
12	Studies on the Effects of Gestational Diabetes Mellitus on the Fetus Using Stem Cell-Derived Tissues	Lead PI - Fong Chui Yee Co-PI - Ariff Bongso Co-I – Gan Shu Uin , Arijit Biswas, Chong Yap Seng Collaborator – Walter Stunkel	NUS SoM Aspiration Fund (Partner) Category
13	Molecular Regulation of Myogenesis: Role of Serine Protease HTRA1	PI – Peter J Richards Co-I – Alfredo Franco-Obregon	Maxi Grant: Center for Applied Biotechnology and Molecular Medicine
Hepatobiliary & Pancreatic Surgery			
1	Pre-Clinical Validation for First in Man by the Ablation and Division Device with Blood Flow Sensor (ADD)	PI – Stephen Chang	NRF POC 11th Grant Call
2	Transcutaneous Robot-assisted Ablation-device Insertion Navigation System (TRAINS)	Lead Tech co-PI – Chui Chee Kong Lead Clinical co-PI – Stephen Chang Co-Is: Huang Weimin, Zhou Jiayin, Sun Ying Collaborators: Marcelo Ang Jr., Ong Sim Heng	A*Star Biomedical Engineering Program (BEP) 2013

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Plastics, Reconstructive & Aesthetic Surgery			
1	Unified Approach for Cleaning, Modelling and Completion of Complex Visual Data	PI - Leow Wee Kheng Collaborators - Lim Thiam Chye , Terence Sim Mong Cheng, P Gopalakrishnakone	MOE Academic Research Fund (AcRF) Tier 2
2	Evaluation of Human Wharton's Jelly Stem Cells for Inhibition of Keloids	PI - Fong Chui Yee Collaborators - Jane Lim	MOE Academic Research Fund (AcRF) Tier 1
Upper Gastrointestinal Surgery			
	Gastro-Duodenal Sleeve that Limit Caloric Absorption in the Stomach and Duodenum in Obese and Diabetic Patients	PI - Melvin Loh, Rachel Hong Co-PI - Allium Ltd	Singapore Israel Industrial Research & Development Foundation
1	Design and Development of a Device for External Gastric Restriction for Treatment of Obesity and Diabetes	PI - Asim Shabbir Co-I - Davide Lomanto , Lye Whye Kei Collaborator - Shahrzad Rayatpisheh, Hamid Farrokhi	NUHS Clinician Research Grant FY13
2	Evaluation of Programmed Cell Death Ligand 1 (PD-L1) Expression on Gastric Cancer Tissue and its Effect on Tumour Biology, Patient Prognosis and Survival	PI - Teh Jun Liang Mentors - Koji Kono, Jimmy So Bok Yan , Richie Soong	NUHS Clinician Scientist Program Residency Award
Urology			
1	Pre-Clinical Testing of a Device to Assist Percutaneous Access to Kidney	PI - Wu Qing Hui Co-I - Kesavan Esuvaranathan, Edmund Chiong, Ng Tze Kiat Collaborator - Foo Soo Leong	NRF POC 11th Grant Call
2	Bayer 15396-A Phase III Randomized, Double-blind, Placebo-Controlled Trial of Radium-223 Dichloride in Combination with Abiraterone Acetate and Prednisone/Prednisolone in the Treatment of Asymptomatic or Mildly Symptomatic Chemotherapy-Naïve Subjects with Bone Predominant Metastatic Castration-Resistant Prostate Cancer (CRPC)	PI - Edmund Chiong	Bayer Pharma AG
3	Primary Prostate Cancer Imaging with PET/MRI and PET/CT with Focus on Localization and Grading	PI - Edmund Chiong	NCIS Seed Funding Program
4	9785-CL-0403A- Multicenter, Single-Arm, Open-Label, Post-Marketing Safety Study to Evaluate the Risk of Seizure Among Subjects with Metastatic Castration-Resistant Prostate Cancer (mCRPC) Treated with Enzalutamide Who Are at Potential Increased Risk of Seizure	PI - Edmund Chiong	Astellas Pharma Europe BV
5	Non-invasive Transplant Monitoring in a Local Homogenous Population using Cell-Free Donor Nucleic Acid in Recipient Plasma via Allele Polymorphism	PI - Benjamin Goh Yen Seow	NUH Clinician Scientist Unit "Pitch for Funds"