

THE UNIVERSITY OF HONG KONG  
LI KA SHING FACULTY OF MEDICINE

ITF - Partnership Research Programme (PRP)\*

\* The UICP and the collaborative stream of the ITSP have been merged and is named as the Partnership Research Programme (PRP) in January 2019.

**2021**

<b>Principal Applicant</b>	<b>Department/School/Unit</b>	<b>Project Title</b>	<b>Approved Amount (HK\$)</b>
Prof XY Guan	Clinical Oncology	Genetic engineering of FGFR2+ fibrocytes as vehicles for IL12 targeting Esophageal Squamous Cell Carcinoma	1,640,000
Dr LY Mak	Medicine	Frequency-difference electrical impedance tomography (fdEIT) detection and characterization of fatty liver disease	201,250
Dr SLC Chui	Pharmacology and Pharmacy	Cardiovascular risk prediction model for patients on lipid modifying drugs	3,184,635
Dr GPH Leung	Pharmacology and Pharmacy	Pharmacological effects of cultivated <i>Amauroderma rugosum</i> of Hong Kong origin on aging-related diseases and identification of its active ingredients	2,206,620
Dr W Yang	Paediatrics and Adolescent Medicine	Establishing the First Southern Chinese Haplobank of Clinical-Grade Human Induced Pluripotent Stem Cell Lines for Regenerative Medicine	5,545,594

**2020**

<b>Principal Applicant</b>	<b>Department/School/Unit</b>	<b>Project Title</b>	<b>Approved Amount (HK\$)</b>
Professor AWM Lee	Clinical Oncology	Precision Oncology Programme for Non-Small-Cell-Lung Cancer	50,019,500
Dr P Cao	Diagnostic Radiology	Development of super-resolution bioimaging method for the wrist: from portable wristband EIT to detailed MRI wrist anatomy	176,640
Dr CX Fang	Orthopaedics & Traumatology	Development and Initial Validation of a Novel Local Anesthetic Drug Carrying Bone Plate (DCBP) with Diffusion Optimized Micro Fluid Channels for Fracture Repair	12,614,494

		Manufactured By Integrated Machining Direct Metal Laser Sintering (IM-DMLS) 3D Printing Technology	
Professor KWK Yeung	Orthopaedics and Traumatology	Development of near-infrared sensitive photothermal aerogels for potential applications	1,989,500

**2019**

<b>Principal Applicant</b>	<b>Department/School/Unit</b>	<b>Project Title</b>	<b>Approved Amount (HK\$)</b>
Dr WHK Chiu	Diagnostic Radiology	Development of a Deep Learning Algorithm Capable of Radiologist-level Detection and Characterisation of Liver Cancers on Magnetic Resonance Imaging	740,498
Dr DW Chan	Obstetrics and Gynaecology	Using Genome-wide DNA Methylome Profiling to Analyze Cisplatin-resistance in Human Ovarian Cancers	7,450,728

**2018**

<b>Principal Applicant</b>	<b>Department/School/Unit</b>	<b>Project Title</b>	<b>Approved Amount (HK\$)</b>
Professor Z Chen	Microbiology	A Novel PD1-based Vaccine for HIV/AIDS Immunotherapy	23,997,650

**2017**

<b>Principal Applicant</b>	<b>Department/School/Unit</b>	<b>Project Title</b>	<b>Approved Amount (HK\$)</b>
Dr Y Zhang	Chinese Medicine	The Pharmacological Effect and Mechanisms Study on Dendrobium Officinale - Yuye Decoction (DOY) to Improve Diabetic Nephropathy	1,518,302
Professor PKH Tam	Surgery	Establishment of New Treatment Strategy for Neurological Diseases Using Patient Specific Induced Pluripotent Stem Cells and High-resolution Single Cell Sequencing	7,599,200
Professor PKH Tam	Surgery	Advancing Diagnosis and Treatment of Two Liver Diseases, Alagille Syndrome and Biliary Atresia, by	7,798,615

		Organoid and Single Cell Transcriptome Analysis	
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**2016**

<b>Principal Applicant</b>	<b>Department/School/Unit</b>	<b>Project Title</b>	<b>Approved Amount (HK\$)</b>
Professor J Shen	Chinese Medicine	Evaluating the neuroprotective effect and safety of An-Gong-Niu-Huang Wan and its ingredients in ischemic stroke	2,859,038
Professor GCF Chan	Paediatrics & Adolescent Med	Automated bioreactors for expanding and monitoring mesenchymal stem cells	7,648,700

**2015**

<b>Principal Applicant</b>	<b>Department/School/Unit</b>	<b>Project Title</b>	<b>Approved Amount (HK\$)</b>
Dr J Chen	Chinese Medicine	Development of tea bag YH0618, an herbal dietary supplement against chemotherapy-induced toxicity	896,470
Professor ML Lung	Clinical Oncology	Regulation and Clinical Implication of PD-L1 Expression in Esophageal Tumor Cells subjected to Chemotherapy	2,259,600
Professor A Xu	Medicine	Development of innovative chemiluminescent immunoassays for diabetes and its cardiovascular complications	3,475,268
Dr S Yuan	Microbiology	Development of Anti-influenza Agents Targeting Influenza Virus RNA Polymerase	2,600,000

**2014**

<b>Principal Applicant</b>	<b>Department/School/Unit</b>	<b>Project Title</b>	<b>Approved Amount (HK\$)</b>
Dr TCC Yau	Medicine	A Phase II study of the safety and efficacy of PEG-BCT-100 combined with capecitabine/oxaliplatin in patients with advanced hepatocellular carcinoma (Part I)	4,628,440

**2013**

<b>Principal Applicant</b>	<b>Department/School/Unit</b>	<b>Project Title</b>	<b>Approved Amount (HK\$)</b>
Professor B Zheng	Microbiology	Development of Antiviral Peptides against Infections of Influenza Virus and Other Respiratory Viruses	1,720,000

**2012**

<b>Principal Applicant</b>	<b>Department/School/Unit</b>	<b>Project Title</b>	<b>Approved Amount (HK\$)</b>
Professor B Zheng	Microbiology	Development of Antiviral Agents based on Small RNA Containing Unique Motif	6,434,000
Dr MCW Chan	Public Health	Therapeutic Effect of Human Umbilical Cord Mesenchymal Stem Cells on Acute Lung Injury Caused by Severe Influenza H5N1 Virus Infection	2,713,176

**2011**

<b>Principal Applicant</b>	<b>Department/School/Unit</b>	<b>Project Title</b>	<b>Approved Amount (HK\$)</b>
Professor A Kwong	Surgery	Development of a Novel Non-coding RNA-based Blood Test for Early Detection, Prognostication and/or Treatment Monitoring of Breast Cancer	2,319,058

**2008**

<b>Principal Applicant</b>	<b>Department/School/Unit</b>	<b>Project Title</b>	<b>Approved Amount (HK\$)</b>
Professor X Guan	Clinical Oncology	Evaluation of an Oxygen Therapeutic (IKOR-2084) in the Enhancement of Chemotherapy and Radiotherapy in Rodent Cancer Models	1,893,430

**2002**

<b>Principal Applicant</b>	<b>Department/School/Unit</b>	<b>Project Title</b>	<b>Approved Amount (HK\$)</b>
Professor RYK Man	Pharmacology	Defining the bioactive components of Shenmai injection and their mechanisms of action	5,074,988

**2000**

<b>Principal Applicant</b>	<b>Department/School/Unit</b>	<b>Project Title</b>	<b>Approved Amount (HK\$)</b>
Professor LWC Chow	Surgery	Collaborative laboratory research on KY88 liver livo	670,000