

HKU Summer Research Programme 2024

List of Potential Mentors

Faculty / Interdisciplinary Area: **LKS Faculty of Medicine**

	Department / Discipline	Title	Last Name	First Name	Contact Email	Personal Homepage	Research Area(s) / Topic(s)	Remarks
1	Dept of Clinical Oncology, SCLinMed	Dr	EL HELALI	Aya	ahelali@hku.hk	https://oncology.med.hku.hk/en/Our-Team/Academic-Staff/Dr-Aya-El-HELALI/Dr-Aya-El-HELALI-Profile	Neuro-Oncology Immuno-Oncology Precision Cancer Medicine	Dr. Aya El Helali research interests include understanding innate and adaptive immunity in solid cancers and adopting a personalized approach to identify novel drug combinations by integrating patient genomic data, thereby streamlining novel personalized therapeutics into clinical use by designing biomarker stratified phase I/II clinical trials. She has received the ECCO-AACR-EORTC-ESMO certificate of accreditation for Clinical Cancer Research experience in early phase clinical trials which led to the development of the ALM201 first-in-human phase I clinical trial.
2	Dept of Diagnostic Radiology, SCLinMed	Dr	HUANG	Jianpan	jphuang@hku.hk	https://www.jianpanhuang.com/	- Magnetic Resonance Imaging - Chemical Exchange Saturation Transfer - Medical Image Analysis - Artificial Intelligence	
3	Dept of Diagnostic Radiology, SCLinMed	Dr	LEE	Elaine	eyplee77@hku.hk	https://radiology.med.hku.hk/en/Our-Team/Academic-Staff/Dr-Elaine-Yuen-Phin-LEE/Dr-Elaine-Yuen-Phin-Lee-Profile	1. Gynaecological oncology imaging, in particular, applications of functional modalities and radiomics/AI in advancing precision medicine. 2. Diffusion-weighted MRI in body imaging including advanced modelling and techniques with their clinical applications.	Participant will join a vibrant friendly research team with diverse background, including clinicians, MRI scientists and data scientists from different nationalities. There will be organised weekly team meeting, hands-on experience on current research projects and opportunity to join international collaborations.
4	Dept of Fam Med & Prim Care, SCLinMed	Dr	WAN	Eric Yuk Fai	yfwan@hku.hk	https://fmpe.hku.hk/en/Our-Team/Academic-Staff/Dr-Eric-Wan/Dr-Eric-Wan	(1) Evaluation of effectiveness and cost-effectiveness of health service in primary care (2) Epidemiology and pharmacoepidemiology	

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5	Dept of Medicine, SCLinMed	Dr	GENG	Leiluo	u3003135@connect.hku.hk	https://orcid.org/0000-0003-2886-3476	Metabolic hormones and cardiometabolic diseases	We have several projects for big data analysis in the area of metabolic medicine. If you are interested and proficient in epidemiological and statistical study, you are highly recommended to take part in our programme.
6	Dept of Obstet & Gynaecol, SCLinMed	Dr	CHEN	Chun Hang Andy	andycch0@hku.hk	https://obsgyn.med.hku.hk/en/Staff/Dr-Andy-CH-CHEN-Profile	Role of microRNAs and epigenetic regulators on early trophoblast development	
7	Dept of Orthop & Traumatol, SCLinMed	Dr	LAU	Chun Man Lawrence	laucml@hku.hk	https://www.ortho.hku.hk/biography/lau-chun-man-lawrence/	Osteoarthritis Joint degeneration Adult Joint Reconstruction Joint replacement Artificial Intelligence	
8	Dept of Paediatr & Adolesc Med, SCLinMed	Dr	ROSA DUQUE	Jaime	jsrduque@hku.hk	https://paed.hku.hk/en/Staff/profile/?p=js_rosa-duque	immunology, allergy, infectious diseases, vaccinology	
9	Dept of Paediatr & Adolesc Med, SCLinMed	Professor	YANG	Wanling	yangwl@hku.hk	https://paed.hku.hk/menu/staff/wanlingyang/wanlingyang.html	Genetic and genomic studies of autoimmune diseases; human genetics and bioinformatics; analysis of big data for clinical translation.	

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10	Dept of Pathology, SClinMed	Dr	HO	Daniel Wai Hung	dwhho@hku.hk	https://repository.hku.hk/cris/rp/rp02285	<p>My research focuses are bioinformatics analyses on high-throughput omics data and computational analysis tools development. I have particular interests on genomics studies of hepatocellular carcinoma (HCC) through the application of next generation sequencing, large-scale screening, liquid biopsy, and single-cell and spatial transcriptomics. I am also involved in multidisciplinary and integrative studies to investigate and understand the molecular mechanism of hepatocarcinogenesis, metastasis and treatment response of HCC.</p> <p>- Genomic and transcriptomic analyses of liver cancer using next generation sequencing, liquid biopsy, and single-cell and spatial transcriptomics</p> <p>- Bioinformatics development on computational analysis tools and database</p>	
11	Dept of Pathology, SClinMed	Professor	YAM	Judy	judyam@pathology.hku.hk	https://jymlab.com/	<p>Hepatocellular carcinoma (HCC) is a primary malignancy of liver. HCC patients are often diagnosed at an advanced stage and most of them have metastasis. Accumulating data suggests that cancer metastasis is not a random process, but results from the interplay between intrinsic properties of cancer cells and the microenvironment of the distant organ. Communication between tumor cells and their microenvironment plays a crucial role during cancer development and metastasis. Shedding of extracellular vesicles has emerged as an important channel for intercellular communication. The study will explore the impact of extracellular vesicles in the tumor microenvironment of liver cancer.</p>	
12	Dept of Pathology, SClinMed	Dr	YAN	Helen	yanhelen@hku.hk	https://www.patho.hku.hk/en/Our-Team/Academic/Assistant-Professors/Dr-YAN-Hoi-Ning-Helen-Item/Dr-YAN-Hoi-Ning-Helen	<p>The pathogenesis of gastrointestinal tract cancers and identification of new biomarkers for treatment responses.</p>	

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13	Dept of Pharmacology & Pharmacy	Dr	CHOW	Shing Fung	asfchow@hku.hk	https://www.pharma.hku.hk/en/Our-People/Professoriate/Assistant-Professor/Dr-Aviva-SF-CHOW/Dr-Aviva-SF-CHOW-Profile	Nanoparticle-based drug delivery to lungs/brain Crystal/cocrystal engineering Rational drug design and formulation development	Students can send their inquiry and CV to Dr. Aviva Chow via asfchow@hku.hk
14	Dept of Pharmacology & Pharmacy	Dr	WANG	Weiping	wangwp@hku.hk	www.wanglab.org	Nanomedicine, ocular drug delivery, targeted drug delivery, photopharmacology, biomaterials	
15	Dept of Pharmacology & Pharmacy	Dr	ZHOU	ZHONG YAN	zyzhouhk@hku.hk	https://www.pharma.hku.hk/en/Our-People/Professoriate/Professor/Professor-Yu-WANG/Professor-Yu-WANG-Profile	Traditional Chinese Medicine; Cardiovascular disease; Metabolic disease; Neurodegenerative disease; Ageing	
16	Dept of Psychiatry, SCLinMed	Dr	CHAN	Sherry Kit Wa	kwsherry@hku.hk	https://www.psychiatry.hku.hk/dr-sherry-chan	Cognitive neuroscience Computational Psychiatry Psychopharmacology	
17	Dept of Psychiatry, SCLinMed	Dr	CHANG	Wing Chung	changwc@hku.hk	https://www.psychiatry.hku.hk/dr-wc-chang	1. Early psychosis and bipolar disorder: clinical, neurocognitive and neuroimaging research on outcome prediction 2. Mortality, physical morbidity and other clinical outcomes in mental disorders and psychotropic medications: population-based health-record database research 3. Digital phenotyping in clinical characterization and outcome prediction in schizophrenia and bipolar disorder 4. Treatment response in ADHD: prospective follow-up investigation in clinical, behavioral and neurocognitive outcomes	
18	Dept of Psychiatry, SCLinMed	Dr	LO	Ka Ying Heidi	lokaying@hku.hk	https://www.psychiatry.hku.hk/dr-heidi-lo	Mood and stress-related disorders Resilience and neuroscience Neuroimaging and neuromodulation Suicide Prevention Stigma and Social Psychiatry	
19	Dept of Surgery, SCLinMed	Professor	KWONG	Ava	avakwong@hku.hk	https://www.surgery.hku.hk/en/Our-Team/Academic-Staff/Clinical-Professor/Professor-Ava-KWONG/Professor-Ava-KWONG-Profile	Genomic study in breast cancer	

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20	Dept of Surgery, SClinMed	Dr	TEY	Sze Keong	szekeong@hku.hk	https://repository.hku.hk/cris/rp/rp03067	Extracellular vesicles in tumor microenvironment of breast cancer	
21	Dept of Surgery, SClinMed	Professor	WONG	Kenneth	kkywong@hku.hk	https://www.surgery.hku.hk/en/Our-Team/Academic-Staff/Clinical-Professor/Professor-Kenneth-Kak-Yuen-WONG/Professor-Kenneth-Kak-Yuen-WONG-Profile	Organoid-based disease modelling for congenital paediatric surgical conditions; Nanomaterials for tissue regeneration; Innovations in surgical tools	
22	School of Biomedical Sciences	Dr	CHEUNG	Martin	mcheung9@hku.hk	https://www.sbms.hku.hk/staff/martin-chi-hang-cheung	Generation of patient-specific neuromuscular organoids for modeling of spinal muscular atrophy	
23	School of Biomedical Sciences	Dr	HE	Mu	muhe@hku.hk	https://www.muhe.com/	regenerative medicine, multi-dimensional microscopy, complex organoid	
24	School of Biomedical Sciences	Dr	HO	Joshua	jwkho@hku.hk	https://holab-hku.github.io/	Bioinformatics, single cell omic and imaging analysis, metagenomics, gut microbiome, digital health, medical AI, electronic medical record analysis	Our bioinformatics and digital health laboratory is always looking for students who want to use their computational or statistical skills to solve challenging biomedical or healthcare problems.
25	School of Biomedical Sciences	Professor	JIN	Dong Yan	dyjin@hku.hk	https://www.sbms.hku.hk/staff/dong-yan-jin	Virus-host interaction Innate antiviral response Viral oncogenesis	
26	School of Biomedical Sciences	Dr	SHIH	David	dshih@hku.hk	https://www.sbms.hku.hk/staff/david-jen-hao-shih	Cancer genomics and somatic evolution Bayesian statistical modeling of complex biological data Deep learning for computational biology and medicine	
27	School of Biomedical Sciences	Dr	SUGIMURA	Rio	rios@hku.hk	https://www.riosugimura.com/	Cancer immunotherapy	The candidate will work at the Science Park.
28	School of Biomedical Sciences	Dr	WANG	Shoutang	stwang@hku.hk	https://www.sbms.hku.hk/staff/shoutang-wang	Neuroimmunology	
29	School of Biomedical Sciences	Dr	WONG	Alan	aslw@hku.hk	https://www.sbms.hku.hk/staff/alan-siu-lun-wong	Genome editing Synthetic biology CRISPR	

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30	School of Nursing	Dr	CHEUNG	Denise Shuk Ting	denisest@hku.hk	https://nursing.hku.hk/people/research-faculty/shuk-ting-cheung	Complementary and alternative medicine Physical activity Cancer survivorship	
31	School of Nursing	Dr	HO	Benjamin Mu Hsing	mhbho@hku.hk	https://nursing.hku.hk/people/research-faculty/mu-hsing-ho	Cancer, cognitive impairment, delirium	
32	School of Nursing	Dr	LEE	Jung Jae	leejay@hku.hk	https://nursing.hku.hk/people/research-faculty/jung-jae-lee	Qualitative research; Stroke; Psychological intervention; Nursing education.	
33	School of Nursing	Dr	SUEN	Yi Nam	suenyn@hku.hk	https://repository.hku.hk/cris/rp/rp02481	Promoting physical and mental well-being in community settings, with an emphasis on developing models for social processes in high-risk populations to improve early detection and preventative interventions of mental illnesses.	
34	School of Public Health	Professor	COWLING	Ben	bcowling@hku.hk	https://sph.hku.hk/en/Biography/Cowling-Benjamin-John	Infectious disease epidemiology	
35	School of Public Health	Dr	DHANASEKARAN	Vijay	veej@hku.hk	https://vijlab.io/	<p>Pathogen Evolution Lab aims to advance understanding of the genetic and ecological factors that determine the emergence and distribution of infectious diseases. We conduct epidemiological studies and apply computational and experimental methods at the intersection of epidemiology, phylogenetics, population genetics and immunology to improve disease control strategies.</p> <p>Our recent studies on major human respiratory viruses such as SARS-CoV-2, influenza and RSV and viruses of pandemic potential such as avian influenza can be found here: https://scholar.google.com/citations?hl=en&user=7Hy0s6IAAAAJ&view_op=list_works&sortby=pubdate</p> <p>For more details see: https://sph.hku.hk/en/Biography/Dhanasekaran-Vijaykrishna</p>	

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36	School of Public Health	Dr	KIM	Youngwon	youngwon.kim@hku.hk	https://sph.hku.hk/en/Biography/Kim-Youngwon	<ul style="list-style-type: none"> - physical activity epidemiology - risk prediction modelling - randomised controlled trials on behaviour change 	We are interested in taking on a highly motivated and talented student
37	School of Public Health	Professor	SIU	Parco	pmsiu@hku.hk	https://sph.hku.hk/en/Biography/Siu-Ming-Fai-Parco	Professor Siu's research focuses on the therapeutic effects of exercise frequency (high vs. low), exercise intensity (vigorous vs. moderate), and exercise type (HIIT, Tai Chi, aerobic exercise, and resistance training) on different health issues such as depression, cognitive impairment, insomnia, obesity, metabolic syndrome, and non-alcoholic fatty liver disease. His research also studies exercise and child health, as well as the brain health effects of exercise.	
38	School of Public Health	Dr	TSANG	Tim	matklab@hku.hk	https://sph.hku.hk/en/Biography/Tsang-Kam-Lun-Tim	Statistical and Machine learning methods to estimate transmission dynamics and forecast infectious disease incidence.	