Potential Supervisor list of the UM-Institute of Basic Medicine and Cancer, CAS Joint PhD Programme for AY2025/2026
2025/2026學年澳門大學-中國科學院基礎醫學與腫瘤研究所博士生聯合培養課程導師名單

Academic Unit 學術單位	Specialization 專業範疇	University of Macau 澳門大學 Supervisor 導師	University of Macau 澳門大學 Research Area 研究方向	Institute of Basic Medicine and Cancer, CAS 中國科學院基礎醫學與腫瘤研究所 Supervisor 導師	Institute of Basic Medicine and Cancer, CAS 中國科學院基礎醫學與腫瘤研究所 Research Area 研究方向
Faculty of Health Sciences 健康科學學院	Biomedical Sciences 生物醫藥	Prof. Hanming SHEN 沈漢明	Cancer Cell Biology, Autophagy and Mitophagy and Cancer metabolism	Prof. Yingdi ZHU 朱瑩娣	Mass spectrometry for macromolecular analysis, proteomics, multi-omics integration analysis, pancreatic cancer diagnosis or early screening, bacterial resistance mechanisms against antimicrobial drugs
				Prof. Ji JING 荊吉	Metabolic vulnerability and synthetic lethality in Gastric Cancer
		Prof. Hang Fai KWOK 郭珩輝	Novel Therapeutic Antibodies Development, Venom-based Peptide & Natural Biomolecule Prototype Drugs Development, Cancer Biomarkers & Immunotherapy Markers Discovery for Prognostic and Therapeutic Validation	Prof. Junjie HUANG 黃俊杰	AI for drug discovery, including antimicrobial peptide, tumor vaccine, antitumor drug
				Prof. Hai HU 胡海	Cancer metabolism and transformation
		Prof. Zhen YUAN 袁振	Neurosciences, Neuroimaging, Psychiatric Disorders, Biomedical Optics and Optical Molecular Imaging, Nanomedicine	Prof. Penghui ZHANG 張鵬暉	環境回應智慧分子藥物、納米藥物和生物材料
				Prof. Yifei JIANG 蔣逸飛	活體成像、外泌體液體活檢與靶向治療；In Vivo Imaging, EV based liqiud biopsy and targeted therapy
				Prof. Xiaolin LI 李曉林	Machine learning, deep learning, reinformcent learning, generative AI, large language model, NLP, CV AI for drug discovery (small molecules, cancer vaccine, mRNA, neoantigen, peptide, AMP, antibody) AI for life science, multiomics, single cell, proteomics, biomarker discovery
		Prof. Yunlu DAI 代雲路	Biomaterials, nanomedicine	Prof. Yuan LIU 劉遠	納米材料生物學效應、核酸檢測與機器學習、納米醫學等基於納米技術的智慧分子診斷和癌症治療
				Prof. Jie SONG 宋杰	DNA nanotechnology and gene therapy
				Prof. Hao CHANG 常皓	Microneedles, Biomaterials, Drug delivery, Vaccine delivery, immunotherapy, transdermal biosensor
		Prof. Lijun DI 狄利俊	Cancer development, metastasis, cancer metabolism, metabolic diseasess, Carbohydrate and lipid metabolism, tissue microenvironment and inflammation	Prof. Xiaolin LI 李曉林	Machine learning, deep learning, reinformcent learning, generative AI, large language model, NLP, CV AI for drug discovery (small molecules, cancer vaccine, mRNA, neoantigen, peptide, AMP, antibody) AI for life science, multiomics, single cell, proteomics, biomarker discovry
				Prof. Yuhong LUO 羅雨虹	Cancer metabolism, metabolic diseases, lipid metabolism, gut microbiota, immune response
		Prof. Gang LI 李剛	Cancer Epigenetics, Cell-based High Throughput Screening Systems, Signal Transduction Pathways, Posttranslational Modification of Epigenetic Regulators and PcG Proteins	Prof. Dawei MA 馬大為	Cancer; Drug Discovery; Targeted Protein Degradation; Chemical Structure Optimization; Covalent inhibitors Dicovery
				Prof. Huacheng LUO 羅華程	Chromatin Modifying Enzymes, RNA Modifying Enzymes, lncRNA, High-throughput Sequencing, Epigenetics, Carcinogenesis
				Prof. Weidong HAN 韓衛軍	Cancer Targeted Therapy; Cancer Immunotherapy; Cancer Drug Resistance; Gastroenterological carcinoma; Clinical Trials of Cancer; Tumor-promoting inflammation.
		Prof. Tzu-Ming LIU 劉子銘	Medical Devices Development, Embryonic Development, Tumor Microenvironment, Pharmacokinetics of Nanomedicines and In Vivo Cytometry of Leukocytes	Prof. Jinzhao SONG 宋金召	Medical Device Development; Internet of Things (IoT)-based Intelligent Molecular Diagnostics; Liquid Biopsy Biomarker Discovery and Diagnostic Development
				Prof. Liang ZHANG 張亮	AI algorithms, computational biology, design and clinical translation of nucleic acid-based therapeutics, including mRNA and small interfering RNA (siRNA).
		Prof. Peng WANG 王鵬	Deep learning for single cell data analysis; Tumor heterogeneity; Drug discovery.	Prof. Chulin SHA 沙雛淋	Cancer Bioinformatics and Multiomics integration AI methods development, including single cell multimodal integration methods, spatial-omics analysis methods for tumor microenvironment and ecosystem exploration
				Prof. Qin WU 吳芩	Protein- nucleic acid interaction, cancer epigenetics, single cell technology, drug discovery and CART
				Prof. Tao BING 邴濤	基於機器學習的適體篩選規律與二級結構研究；基於適體的單細胞數字化
		Prof. Ruiyu XIE 謝瑞瑜	Pancreatic cancer, Epigenetic regulation, Lineage specification, Stem cell-based therapy of diabetes	Prof. Jie SONG 宋杰	DNA結構設計與通信，基因檢測與藥物遞送，以及智慧診療儀器的開發與應用
				Prof. Chulin SHA 沙雛淋	Cancer Bioinformatics and Multiomics integration AI methods development, including single cell multimodal integration methods, spatial-omics analysis methods for tumor microenvironment and ecosystem exploration
				Prof. Qin WU 吳芩	Protein- nucleic acid interaction, cancer epigenetics, single cell technology, drug discovery and CART
		Prof. Hongjie ZHANG 張紅杰	Nuclear Factor kappaB (NF-kB), IkB proteins, Crystallization, Signal Transduction and Post-translational Modifications	Prof. Jingkui TIAN 田景奎	癌症疾病的生物標誌物發現，中草藥中抗腫瘤活性成分發現及其作用機制研究，中醫藥系統生物學
		Prof. Wa Kam CHANG 曾華鑫	Aging, Cell polarity, Cytoskeleton, Nuclear envelope, Cilia, Circulating factors	Prof. Juan LI 李娟	Protein-protein interaction, cell membrane protein chemical biology, living cell imaging, functional nucleic acids for targted cancer therapy
				Prof. Yingdi ZHU 朱瑩娣	Mass spectrometry for macromolecular analysis, proteomics, multi-omics integration analysis, pancreatic cancer diagnosis or early screening, bacterial resistance mechanisms against antimicrobial drugs
		Prof. Qiang CHEN 陳強	Oncogenes, Tumor Suppressor Genes, Cancer Metabolism, Metabolic diseases, Inflammatory diseases	Prof. Yuhong LUO 羅雨虹	Cancer metabolism, metabolic diseases, lipid metabolism, gut microbiota, immune response
				Prof. Bing FENG 馮兵	細胞與基因治療前沿技術
		Prof. Qihan CHEN 陳奇涵	1) Translational medicine 2) Development of novel technologies of Molecular Biology 3) Epigenetics and Evolutionary Biology	Prof. Ji JING 荊吉	Design and Applications of Optogenetic Tools

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University of Macau 澳門大學				Institute of Basic Medicine and Cancer, CAS 中國科學院基礎醫學與腫瘤研究所	
Academic Unit 學術單位	Specialization 專業範疇	Supervisor 導師	Research Area 研究方向	Supervisor 導師	Research Area 研究方向
Faculty of Health Sciences 健康科學學院	Biomedical Sciences 生物醫藥	Prof. Xiaofan DING 丁肖凡	Cancer biology; Precision medicine; Xenograft model; Immune cell isolation;	Prof. Lei SHI 石磊	腫瘤影像與人工智能
				Prof. Hai HU 胡海	Cancer metabolism and transformation
				Prof. Min HE 何敏	深度學習和強化學習等前沿方法對醫學影像組學進行定量化、智慧化研究，及多模態醫療影像大資料結合基因組研究，更好的應用於早期癌症的智慧辨識、病理分析和臨床輔助決策。
				Prof. Dong XU 徐棟	Precision Diagnosis and Treatment of Tumors Based on Medical Imaging Big Data and Multi-Omics
				Prof. Dan SU 蘇丹	Research on Molecular Biomarkers Related to Therapeutic Efficacy in Thoracic Tumors
		Prof. Jiajie HOU 侯嘉杰	Post-therapeutic Inflammation and Cancer Immunity, Liver Cancer Immunobiology, Combinatoril Immunotherapy	Prof. Hao CHANG 常皓	Microneedles, Drug delivery, Vaccine delivery, immunotherapy
		Prof. Kai MIAO 苗凱	High-throughput functional driver screening in tumor metastasis and drug resistance, Gene therapy for cancer.	Prof. Peng GUO 郭鵬	惡性腫瘤新靶點的發現和新型靶向藥物的研發
				Prof. Xiangsheng LIU 劉湘聖	Aptamer-drug conjugates (ApDC), mRNA drugs and vaccines, nanomedicine, nano-biological interface effects, etc.
				Prof. Jiang-Jiang QIN 覃江江	Multi-Omics, Cancer Target, Drug Discovery, TCM
				Prof. Qinglin LI 李清林	惡性腫瘤新靶點的發現和新型靶向藥物的研發
		Prof. Edwin Chong Wing CHEUNG 張仲榮	Nuclear Hormone Signaling, Cancer, Sequencing, Transcriptional regulation, drug sensitivity and resistance, drug discovery	Prof. Qin WU 吳芩	Cancer epigenetics, aptamer technology, drug discovery and CART
		Prof. Aifang CHENG 程愛芳	Pathogenesis of Neurodegenerative Diseases; Neuroprotective Lead Compounds Discovery and Drug Repurposing; Aging	Prof. Yajun WANG 王雅俊	Chemical Biology and therapeutic applications of functional nucleic acids
				Prof. Jingkui TIAN 田景奎	癌症疾病的生物標誌物發現，中草藥中抗腫瘤活性成分發現及其作用機制研究，中醫藥系統生物學
				Prof. Pei GUO 郭沛	Structure, function and targeting of nucleic acids in neurodegenerative diseases
		Prof. Ningyi SHAO 邵寧一	Cardiovascular Development and Diseases, Bioinformatics, Computational Biology, Multi-omics Integration Analysis, Genome Research, Epigenetics and Transcriptome Research	Prof. Run XIAO 肖潤	心理因素影響疾病發生發展機制，組織透明化三維成像，基因治療
		Prof. Zhenghai TANG 唐正海	1) Providing an in-depth mechanistic understanding of immune checkpoints for rational development of first-in-class monoclonal antibodies, bispecific antibodies and antibody-drug conjugates. 2) Screening novel immune checkpoints by CRISPR with specific sgRNA library for cancer therapy. 3) Developing CAR macrophages against cancer.	Prof. Sitao XIE 謝斯滔	1) Cutting-edge technologies related to functional nucleic acid discovery, design, delivery and application; 2) mRNA drugs and vaccines in biomedicine.
				Prof. Qinglin LI 李清林	惡性腫瘤新靶點的發現和新型靶向藥物的研發
		Prof. Kin Yip TAM 譚建業	Small Molecule Inhibitors Development, Cancer Metabolism, Alzheimer's disease	Prof. Juan LI 李娟	Protein-protein interaction, cell membrane protein chemical biology, living cell imaging, functional nucleic acids for targted cancer therapy
				Prof. Junjie HUANG 黃俊杰	AI for drug discovery, including antimicrobial peptide, tumor vaccine, antitumor drug
Institute of Chinese Medical Sciences 中華醫藥研究院	Biomedical Sciences 生物醫藥	Prof. Ligen LIN 林理根	代謝性疾病小分子藥物發現	Prof. Luo FANG 方羅	腫瘤瘤內代謝組研究
				Prof. Li YUAN 袁莉	中醫藥防治腫瘤
				Prof. Xiangdong CHENG 程向東	中醫藥防治腫瘤
				Prof. Jiangjiang QIN 覃江江	Multi-Omics, Cancer Target, Drug Discovery, TCM
		Prof. Meiwan CHEN 陳美婉	1. Molecular Pharmaceutics 2. Biomaterial and Nanomedicine 3. Targeted Drug Delivery System	Prof. Xiangsheng LIU 劉湘聖	Aptamer-drug conjugates (ApDC), mRNA drugs and vaccines, nanomedicine, nano-biological interface effects, etc.
		Prof. Xiaojia CHEN 陳肖家	Quality evaluation and international standards of Chinese medicines Metabolomics study on Chinese medicines Bioactive components from Chinese medicine	Prof. Luo FANG 方羅	中藥抗腫瘤物質基礎研究

* Applicants can only apply for the Joint PhD Programme with the institute of Chinese Academy of Sciences through the online application system of UM. Applicants should choose their designated joint programmes and the pair of supervisors in their applications.