THE UNIVERSITY OF HONG KONG  
LI KA SHING FACULTY OF MEDICINE  

Joint PhD Programme  
List of Intending Supervisors and Research Interests/Topics

Imperial College London (Imperial)

<table>
<thead>
<tr>
<th>Department</th>
<th>Name of Faculty Member</th>
<th>Research interests/topics</th>
<th>Potential joint supervisor(s)</th>
<th>Past/current collaboration(s), if applicable</th>
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| Anatomy                       | Dr. Raymond Chuen-Chung Chang | 1. Neurodegeneration of Alzheimer’s disease, Parkinson’s disease and glaucoma  
2. Neuroimmunology of microglia and astrocytes  
3. Herbal medicine and food extract as neuroprotective agents  
4. Risk factors for neurodegeneration | Joint supervisor(s) being identified                                                                                                                             |                                                                                             |
| Biochemistry                  | Dr KM Yao              | 1. Function of the Forkhead box transcription factor FoxM1 in cell cycle progression, cancer and aging  
2. Regulation of pancreatic β-cell and bone function: Role of PDZ Domain-containing protein 2 (PDZD2).  
3. Exploring the protective effect of FoxM1 against oxidative stress-induced DNA damage and cellular senescence in primary mouse embryonic fibroblasts | Professor Eric W Lam, Cancer Research-UK labs and Division of Cancer, Department of Surgery and Cancer, ICL |                                                                                             |
<p>| Paediatrics and Adolescent Medicine | Dr AKS Chiang        | Epstein-Barr virus Biology                                                                                                                                                                                                   | Professor Paul Farrell, Department of Virology, ICL                                                  |                                                                                             |</p>
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<tr>
<th>Obstetrics &amp; Gynaecology</th>
<th>Prof HYS Ngan</th>
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| Biomolecular and clinical studies in gynaecological cancers:  
  1. Biomolecular studies including the role of p53 and Human Papilloma Virus (HPV), the function of p73 and its binding proteins in relation to radio- and chemo-sensitivity of gynaecological cancers, epidemiological and genetic studies of HPV infection in cervical precancerous lesions and cancers, epigenetic studies of some oncogenes and tumour suppressor genes, risk association study of single nucleotide polymorphism (SNPs) of tumour suppressor and oncogenes, prognostic significance of plasma DNA detection, some signaling pathways in association of gynaecological cancers, such as Wnt, ERK and Hedgehog pathways, traditional Chinese Medicine in supportive cancer treatment, serum tumour markers and drug trials.  
  2. Cervical cancer screening including HPV prevalence and test trial, HPV education and vaccine, cervical cancer prevention, cytology and colposcopy studies.  
  3. Psychosocial studies of patients and relatives in patients with gynaecological cancers, quality of life, psychosocial and psychosexual studies. | Collaborator(s) being identified |
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| **Prof WSB Yeung** | Glycosylation and function of glycodelins and zona pellucida proteins | Professor A Dell, Division of Molecular Biosciences, ICL | 1. glycan structures in glycodelin isoforms (past)  
2. glycan structures in human zona pellucida proteins (present) |
| **Pathology** | **Prof ANY Cheung** | Genetic and Cell Signalling studies of Gynaecological Cancers and Gestational Trophoblastic Diseases | Professor Eric W Lam, Cancer Research UK laboratories and Division of Cancer, Department of Surgery and Cancer, ICL | Cross-talk between FOXOs and PAKs in determining chemosensitivity and functional behaviour of ovarian cancer  
Professor Michael J Seckl, Institute of Reproductive and Developmental Biology, ICL  
Dr Rosemary Fisher, Institute of Reproductive and Developmental Biology, ICL |
| **Dr Michelle KY Siu** | Studies of the molecular and cellular mechanisms that contribute to the pathogenesis of gynaecological cancers | Professor Eric W Lam, Cancer Research UK laboratories and Division of Cancer, Department of Surgery and Cancer, ICL |  |
| **School of Chinese Medicine** | **Dr ZJ Zhang** | 1. Seeking novel psychotropic agents and developing alternative strategies from traditional Chinese medicine and acupuncture to treat major psychiatric disorders, including depression, anxiety, cognitive disorders, drug addiction, and schizophrenia through basic and clinical studies | Collaborator(s) being identified |  |
| Surgery | Transplantation Immunology | Immunology – Study of innate and adaptive immunity regulation in prevention of acute and chronic rejection in animal transplantation models  
2. Tumor immunology – Functional reprogramming of tumor associated macrophages using a mouse model of fibrosarcoma |
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<td>Dr Chen Yan/Prof PKH Tam</td>
<td>Transplantation Immunology</td>
<td>JR Lamb, Professor of Immunoregulation, Infection and Immunology Section, Division of Cell and Molecular Biology, ICL</td>
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| Dr GKK Leung | 1. Genetics of chemo-resistance in malignant glioma  
2. Modifications of brain cells’ response to surgical trauma | Collaborator(s) being identified |
| Dr KKY Wong | 1. Nanomedicine & nanobiotechnology  
2. Wound healing and regeneration  
3. Short bowel syndrome/Parenteral nutrition associated liver disease | Collaborator(s) being identified |