Appendix

**Clinical Research Fellowship Scheme**

**Available Research Topics and Mentors**

Below research projects are inviting interested applicants. Applicants are also welcome to approach a related Department and potential mentor to discuss and suggest a research topic.

**Department of Emergency Medicine**

|  | **Title** | **Mentor(s)** |
| --- | --- | --- |
| 1. | Epidemiology, outcomes and translational studies in acute kidney injury | Prof Timothy Rainer |
| 2. | Epidemiology, outcomes and translational studies in infectious diseases | Prof Timothy Rainer |
| 3. | Epidemiology, outcomes and translational studies in stroke | Prof Timothy Rainer |
| 4. | Epidemiology, management and outcomes of neutropenic sepsis | Prof Timothy Rainer |
| 5. | Epidemiology, management and outcomes of sepsis | Prof Timothy Rainer /  Dr Rex Lam |
| 6. | Emergency diagnostics | Prof Timothy Rainer /  Dr Rex Lam |
| 7. | CRP-guided antibiotics treatment in AECOPD | Dr Abraham Wai |
| 8. | Predictive analysis of the clinical outcomes of Emergency Department patients: A Real-World Data Study | Dr Abraham Wai |

**Department of Orthopaedics & Traumatology**

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|  | **Title** | **Mentor(s)** |
| 1. | Big data based prediction model in disease progression of knee osteoarthritis | Dr PK Chan |
| 2. | Basic and clinical studies related to non-surgical interventions in patients with knee osteoarthritis | Dr PK Chan |
| 3. | How the new technologies can monitor and improve clinical and radiological outcomes in joint replacement surgery? | Dr PK Chan |
| 4. | Basic and clinical studies related to peri-prosthetic joint infection | Dr PK Chan |
| 5. | Clinical interventions to optimize enhanced recovery after surgery (ERAS) protocols in joint replacement surgery | Dr PK Chan |

**Department of Psychiatry**

|  | **Title** | **Mentor(s)** |
| --- | --- | --- |
| 1. | Early intervention for psychosis | Prof Eric Chen / Dr WC Chang / Dr KW Chan / Dr SY Lui / Dr HM Lee / Dr LM Hui |
| 2. | Cognitive neuropsychology and psychopathology of psychotic disorders | Prof Eric Chen / Dr WC Chang / Dr KW Chan / Dr SY Lui / Dr HM Lee / Dr LM Hui |
| 3. | Clinical high risk for psychosis, subclinical psychotic symptoms and schizotypy | Prof Eric Chen / Dr WC Chang / Dr KW Chan / Dr SY Lui |
| 4. | A trans-diagnostic study of differential social cognitive deficits and its cognitive | Dr KW Chan |
| 5. | The influence of emotion-behavior decoupling on clinical and functional outcomes in patients with schizophrenia | Dr SY Lui |
| 6. | First-episode schizophrenia & bipolar disorder: clinical, neurocognitive, neuroimaging and digital phenotyping investigation for early-course outcome trajectory | Dr WC Chang |

**Department of Surgery**

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|  | **Title** | **Mentor(s)** |
| 1. | The role of microbiome in the disease development and outcome of premature neonates | Prof KKY Wong |
| 2. | An animal study to evaluate hepatic inflammatory response in biliary obstruction | Dr PHY Chung |
| 3. | Research on neonatal surgery by big data analytics | Dr PHY Chung |