

# Junior Research Mentoring Programme

<b>Code:</b>	JRMP2021_16
<b>School / Department:</b>	Department of Health Technology and Informatics
<b>Name of Research Leader:</b>	Dr Wong Chi-ming, Assistant Professor
<b>Research Topic:</b>	Developing New Therapeutic Strategies to Combat Metabolic Complication of Obesity
<b>Name of Team Member:</b>	Dr Cai Yin, David
<b>Short Description of the Research Project:</b>	<p>Obesity is increasing worldwide. According to the second large-scale health survey conducted by the HKSAR government's Department of Health between December 2014 and August 2016 revealed that half of Hong Kong people aged between 15 and 84 years are overweight or obese. From the medical point of view, obesity is the leading cause of premature death. Many non-communicable diseases (NODs) are closely related to obesity such as many cardiovascular diseases and cancers. Those NODs imposes huge healthcare burden to our society. Obese people usually have high cholesterol, high blood pressure and diabetes. In our studies, we use diet-induced obese mice and "state of the art" technological platforms to discover and characterize new metabolic hormones and receptors - deciphering their roles in progression of obesity, diabetes and related metabolic disorders; and explore their potential as novel treatment strategies for these pandemic non-communicable diseases.</p>
<b>No. of Places Offered:</b>	3

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<b>Special Requirement(s):</b>	Preferred subject taken: Biology
<b>Remarks:</b>	Not afraid of mouse

*\* The information presented above is subject to change.*