



Precision Genomic Medicine (基因體精準醫學)

生物科技學院 基因體精準醫學 (藥物-/免疫-/單細胞-基因體學) 實驗室 柯泰名 助理教授

<p>➤ Immunogenomics</p> <p>T-cell receptor/B-cell receptor/HLA</p> <p>Platform:</p> <p>Identify “whole and unbiased” sequence information of immune repertoire and develop the related analysis</p> <p>Application:</p> <ol style="list-style-type: none"> 1. Infectious diseases 2. Immunotherapy (Cancer) <p>Collaborators:</p> <ul style="list-style-type: none"> • China Medical University • Academia Sinica 	<p>➤ Single cell genomics</p> <p>Single-cell-transcriptome/-immune profiling/-others</p> <p>Platform:</p> <p>Identify “single-cell level” transcriptome data, related genomic information and develop the related analysis</p> <p>Application:</p> <ol style="list-style-type: none"> 1. Biology (eg., cancer biology) 2. Medicine (eg., cell therapy) <p>Collaborators:</p> <ul style="list-style-type: none"> • China Medical University • Academia Sinica • Hong Kong City University 	<p>➤ Pharmacogenomics</p> <p>Genome-wide association studies</p> <p>Platform:</p> <p>Identify genetic variants associated with human phenotypes, especially for drug efficacy and side effects</p> <p>Application:</p> <ol style="list-style-type: none"> 1. Adverse drug reactions 2. Efficacy of treatment <p>Collaborators:</p> <ul style="list-style-type: none"> • National Center for Genome Medicine • Academia Sinica • Veterans General Hospital
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(Ko et al., JACI, 2011)

(Ko et al., Circulation Research, 2015)

(Ko et al., BMJ, 2015)

(Ko et al., Human Molecular Genetics, 2018)