CHARLES PIN-KUANG LAI (賴品光)

POSITION/AFFILIATIONS	CONTACT INFORMATION	
ASSOCIATE RESEARCH FELLOW, INSTITUTE OF ATOMIC AND MOLECULAR SCIENCES, ACADEMIA SINICA	No. 1, Roosevelt Rd., Sec. 4, Taipei, Taiwan TEL: +886-2-2366-8204 FAX: +886-2-2362-0200 E-mail: laicharles@sinica.edu.tw	

EDUCATION

INSTITUTION AND LOCATION	DEGREE	YEAR(S)	FIELD OF STUDY
University of British Columbia, Vancouver, Canada	B.S.	2003	Cell Biology and Genetics
University of British Columbia, Vancouver, Canada	Ph.D.	2010	Cell and Developmental Biology

Positions and Employment （含現職，由最近者往前追溯）

2021~present	Associate Research Fellow, Institute of Atomic and Molecular Sciences (IAMS), Academia Sinica
2022~present	Adjunct Associate Professor, Genome and Systems Biology, National Taiwan University
2021-2024	Director, Biophysics and Bioanalytical Technology Core, IAMS, Academia Sinica
2017~2021	Assistant Research Fellow, IAMS, Academia Sinica
2015~2017	Assistant Professor, Institute of Biomedical Engineering, National Tsing Hua University
2014~2015	Instructor, Program in Neuroscience, Harvard Medical School

Selected publications (*corresponding author) （請擇代表著作，時間先後順序由最近者往前追溯）

1. Magoling, B., *et al.*, **Lai, C.P.*** (2023). Membrane protein modification modulates big and small extracellular vesicle biodistribution and tumorigenic potential in breast cancers in vivo. ***Advanced Materials.*** 35(13): e2208966.
2. Verweij., F., *et al.*, **Lai, C.P.**, *et al.*, R., Niel, G.V. (2021). The power of imaging to understand extracellular vesicles in vivo. ***Nature Methods.*** 18 (9): 1013-1026.
3. Chien, J.C., Badr, C.E.*, **Lai, C.P.*** (2021). Multiplexed bioluminescence-mediated tracking of DNA double strand break repairs *in vitro* and *in vivo.* ***Nature Protocols.*** 16, 3933-3953. *Co-last authors.
4. Wu, A.Y., *et al.*, **Lai, C.P.*** (2020). Multiresolution imaging using bioluminescence resonance energy transfer identifies distinct biodistribution profiles of extracellular vesicles and exomeres with redirected tropism. ***Advanced Science.*** 7(19): 2001467-83.
5. Chien J.C., *et al.,* Badr C.E.*, **Lai, C.P.*** (2020). Multiplexed bioluminescent reporter enables real-time tracking of DNA double strand break repair dynamics *in vitro* and *in vivo.* ***Nucleic Acids Research.*** 48 (17): e100-117. *Co-last authors.
6. Wu, Y.T., Ueda, K., **Lai, C.P.*** (2019). Review: Proteomic analysis of extracellular vesicles for cancer diagnostics. ***Proteomics.*** 19 (1-2): 1800162-12.
7. Chuo S.T., Chien, J.C., **Lai, C.P.*** (2018). Review: Imaging extracellular vesicles: current and emerging methods. ***Journal of Biomedical Science***. 25 (1):91-100.