Richard Yan-Do

Email: ryan-do@hkcoche.org
Pubmed, Google Scholar, Scopus, & GitHub

EDUCATION

2013/09 – 2018/11	Ph.D. in Pharmacology University of Alberta, CAN Patrick MacDonald Lab
2009/09 – 2013/04	Bachelor of Science, Specialization in Pharmacology, University of Alberta, CAN Matthias Braun Lab

WORK EXPERIENCE

2021/08 – present	COCHE postdoctoral fellow City University Hong Kong, HK Hong Kong Centre for Cerebro-Cardiovascular Health Engineering Peng Shi Lab
2019/01 – 2021/04	Novo Nordisk – Oxford Postdoctoral Fellow University of Oxford, UK Cecilia Lindgren Lab

AWARDS & RECOGNITIONS

2023	City University HKTECH 300	100 000 HKD
2022	HKSTP IDEATION	100 000 HKD
2019-2021	Novo Nordisk Postdoctoral Research Fellow in Diabetes and Metabolism	199 760 GBP
2018	Dr. Edwin Daniel Graduate Scholarship in Pharmacology	3 000 CAD
2017	Faculty of Medicine and Dentistry Med Star Award	1 000 CAD
2016	EASD Travel Grant	1 200 EUR
2015 – 2016	Alberta Diabetes Institute Graduate Studentship	25 000 CAD
2015	University of Alberta Doctoral Recruitment Scholarship	10 000 CAD
2015	FoMD 75th Anniversary Award	7 000 CAD
2014 – 2015	Alberta Diabetes Institute Graduate Studentship	25 000 CAD

CERTIFICATION

2019/07	NVidia Fundamentals of Deep Learning for Computer Vision workshop

LANGUAGES

English	Fluent
Cantonese	Basic
Mandarin	Basic
Python	Fluent

CV Richard Yan-Do

PUBLICATIONS * = Co-first author

Manuscripts

1. Xianglin Ji*, Peilin Fang*, Xi Zhao, Chuanyin Xiong, Qi Yang, Youyang Wan, Zixun Wang, Lin Qi, Linfeng Huang, Wenjun Zhang, Xin Wang**, Richard Yan-Do**, Jia Ke, Chenjie Xu, Peng Shi. Sequencing-free Tissue-wide Spatial Profiling of Post-transcriptional Regulations. *Submitted to Nat Biomed Eng*.
2. Youyang Wan*, Xianglin Ji*, **Richard Yan-Do**, Hailiang Sun, Chuanyin Xiong, Peilin Fang, Zhongping Li, Wei Li, Peng Shi. Colorimetric Sensing of microRNAs in Whole Blood for Early Diagnosing Heart Failure. *Submitted to ACS Sens*.
3. **Richard Yan-Do***, Matthew Chamberlin*, Jacky Cheuk Yin Li, Lei Lei, Chuxiao Xiong, Xingdao He, Xi Zhao, Linfeng Huang, Jin Qu, Yong Yang, Becki Yi Kuang, Peng Shi. Pathologically triggered mRNA expression by omni-gene handcuffing for combinatory precision cancer therapy. *In progress*.

Journal articles

1. Guo F*, Ji X*, Xiong C, Sun H, Liang Z, **Yan-Do R**, Gai B, Gao F, Huang L, Li Z, Kuang BY, Shi P. Single-cell encoded gene silencing for high-throughput combinatorial siRNA screening. Nat Commun. 2024 Nov 19;15(1):9985.
2. Liu Z*, Luo X*, **Yan-Do R**, Wang Y, Xie X, Li Z, Cheng SH, Shi P. Vertebrates on a Chip: Noninvasive Electrical and Optical Mapping of Whole Brain Activity Associated with Pharmacological Treatments. ACS Chem Neurosci. 2024 Jun 5;15(11):2121-2131.
3. Fang P*, Ji X*, Zhao X, **Yan-Do R**, Wan Y, Wang Y, Zhang Y, Shi P. Self-Healing Electronics for Prognostic Monitoring of Methylated Circulating Tumor DNAs. Adv Mater. 2023 Feb;35(5):e2207282.
4. Gosak M*, **Yan-Do R***, Lin H, MacDonald PE, Stožer A. Ca2+ Oscillations, Waves, and Networks in Islets From Human Donors With and Without Type 2 Diabetes. Diabetes. 2022 Dec 1;71(12):2584-2596.
5. Lin X, Sun T, Tang M, Yang A, **Yan-Do R**, Chen D, Gao Y, Duan X, Kai JJ, Wang F, Shi P. 3D Upconversion Barcodes for Combinatory Wireless Neuromodulation in Behaving Animals. Adv Healthc Mater. 2022 Jul;11(13):e2200304.
6. Pepper AR, Pawlick R, Bruni A, Wink J, Rafiei Y, O'Gorman D, **Yan-Do R**, Gala-Lopez B, Kin T, MacDonald PE, Shapiro AMJ. Transplantation of Human Pancreatic Endoderm Cells Reverses Diabetes Post Transplantation in a Prevascularized Subcutaneous Site. Stem Cell Reports. 2017 Jun 6;8(6):1689-1700.
7. **Yan-Do R,** MacDonald PE. Impaired "Glycine"-mia in Type 2 Diabetes and Potential Mechanisms Contributing to Glucose Homeostasis. Endocrinology. 2017 May 1;158(5):1064-1073.
8. **Yan-Do R**, Duong E, Manning Fox JE, Dai X, Suzuki K, Khan S, Bautista A, Ferdaoussi M, Lyon J, Wu X, Cheley S, MacDonald PE, Braun M. A Glycine-Insulin Autocrine Feedback Loop Enhances Insulin Secretion From Human β-Cells and Is Impaired in Type 2 Diabetes. Diabetes. 2016 Aug;65(8):2311-21.
9. Khan S*, **Yan-Do R***, Duong E, Wu X, Bautista A, Cheley S, MacDonald PE, Braun M. Autocrine activation of P2Y1 receptors couples Ca (2+) influx to Ca (2+) release in human pancreatic beta cells. Diabetologia. 2014 Dec;57(12):2535-45.

Patent

1. US Patent Application. No.63/716,325. Highly Sensitive Micropore Assay for Rapid and Amplification Free Detection of COVID-19 mRNA. Filed on 5 November 2024.