Richard Yan-Do

Email: richardyando@gmail.com

Pubmed, Google Scholar, Scopus, Thesis, & Resume

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

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

CERTIFICATION

LANGUAGES

2019/07	NVidia Fundamentals of	English	Fluent
	Deep Learning for	Cantonese	Basic
	Computer Vision	Mandarin	Basic
	workshop	Python	Fluent

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. <u>Nat Commun</u>. 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. <u>Adv Mater.</u> 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. <u>Diabetes</u>. 2022 Dec 1;71(12):2584-2596.
- 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. <u>Endocrinology</u>. 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.