

PUBLICATIONS

Journal articles

1. **Choy LYL**, Yeo JM, Tse V, Chan SP, Tse G. Cardiac disease and arrhythmogenesis: Mechanistic insights from mouse models. *Int J Cardiol Heart Vasc.* 2016;12:1-10.
2. Ni M, Hui RWH, Li TK, Tam AHM, **Choy LYL**, Ma KKW, Cheung F, Leung GM. Augmented reality games as a new class of physical activity interventions? The impact of Pokémon Go use and gaming intensity on physical activity. *Games Health J.* 2019;8(1):1-6.
3. **Choy LYL**, Peng W, Jiang P, Cheng SH, Yu SCY, Shang S, Tse OYO, Wong J, Wong VWS, Wong GLH, Lam WKJ, Chan SL, Chiu RWK, Chan KCA, Lo YMD. Single-molecule sequencing enables long cell-free DNA detection and direct methylation analysis for cancer patients. *Clin Chem.* 2022;68(9):1151-1163.
4. Yu SCY, Deng J, Qiao R, Cheng SH, Peng W, Lau SL, **Choy LYL**, Leung TY, Wong J, Wong VWS, Wong GLH, Jiang P, Chiu RWK, Chan KCA, Lo YMD. Comparison of single molecule, real-time sequencing and nanopore sequencing for analysis of the size, end-motif and tissue-of-origin of long cell-free DNA in plasma. *Clin Chem.* 2023;69(2):168-179.
5. Yu SCY[^], **Choy LYL**[^], Lo YMD. ‘Longing’ for the next generation of liquid biopsy: The diagnostic potential of long cell-free DNA in oncology and prenatal testing. *Mol. Diag. Ther.* 2023;27(5): 563-571. ([^]co-first author)
6. Subramaniam SR, Lam FY, **Choy LYL**, Kwok JSS. Vascular Ehlers-Danlos syndrome: A null COL3A1 variant found in a patient with loin pain without marked cutaneous features. *Clin Case Rep.*2024;12(2):e8517
7. Che H, Jiang P, **Choy LYL**, Cheng SH, Peng W, Chan RWY, Liu J, Zhou Q, Lam WKJ, Yu SCY, Lau SL, Leung TY, Wong J, Wong VWS, Wong GLH, Chan SL, Chan KCA, Lo YMD. Genomic origin, fragmentomics, and transcriptional properties of long cell-free DNA molecules in human plasma. *Genome Res.* 2024;34(2):189-200.
8. Cheng JYK, Subramaniam SR, Yu SCY, **Choy LYL**, Kwok JSS. Dopamine infusion at typical infusion rates does not cause interference on plasma creatinine assays. *Pract Lab Med.* 2024;40:e00399
9. Zhu G, Jiang P, Li X, Peng W, **Choy LYL**, Yu SCY, Zhou Q, Ma ML, Kang G, Bai J, Qiao R, Deng CXS, Ding SC, Lam WKJ, Chan SL, Lau SL, Leung TY, Wong J, Chan KCA, Lo YMD. Methylation-associated nucleosomal patterns of cell-free DNA in cancer patients and pregnant women. *Clin Chem.* 2024; hvae118, <https://doi.org/10.1093/clinchem/hvae118>
10. Bai J, Jiang P, Ji L, Lam WKJ, Zhou Q, Ma ML, Ding SC, Ramakrishnan, Wan CW, Yang TC, Yukawa M, Chan RWY, Qiao R, Yu SCY, **Choy LYL**, Shi Y, Wang Z, Tam THC, Law MF, Wong RSM, Wong J, Chan SL, Wong GLH, Wong VWS, Chan KCA, Lo YMD. Histone modifications of circulating nucleosomes are associated with

changes in cell-free DNA fragmentation patterns. *Proc Natl Acad Sci U S A* 2024 Oct 15;121 42:e2404058121. Epub 20241009 as doi: 10.1073/pnas.2404058121.

11. Malki Y, Kang G, Lam WKJ, Zhou Q, Cheng SH, Cheung PPH, Bai J, Chan ML, Lee CT, Peng W, Zhang Y, Gai W, Wong WSW, Ma MJL, Li W, Xu X, Gao Z, Tse IOL, Shang H, **Choy LYL**, Jiang P, Chan KCA, Lo YMD. Analysis of a cell-free DNA-based cancer screening cohort links fragmentomic profiles, nuclease levels, and plasma DNA concentrations. *Genome Res* 2025 Jan 22;35 1:31-42. Epub 20250122 as doi: 10.1101/gr.279667.124.

Book Chapters

1. **Choy LYL***, Lo YMD. Liquid biopsies. *Vogel and Motulsky's Human Genetics: Problems and Approaches*.(accepted for publication on 21 March 2024) (***First and corresponding author**)