

The Laboratory of Functional Genomics and Bioinformatics, Faculty of Medicine, University of Montreal, seeks a **technician/research assistant** to participate in ongoing research projects. Our group utilizes *in vitro* 3D cell culture, high-throughput genomic sequencing, and computational biology to elucidate molecular mechanisms of growth, invasion, and drug resistance in brain cancer. The selected candidate will be comfortable in both English and French. He/she will help manage the lab and perform experimental tasks including, but not limited to, cell culture, RNA extraction, molecular cloning, and immunofluorescence imaging. Experience in human embryonic stem cell culture and gene knockdown/knockout approaches are considered an asset. Salary will be commensurate with experience. **Graduate student positions (MSc or PhD) are also available.** Please forward your detailed CV, all university transcripts, names of references, and letter of motivation via email to: Dr. Yoshiaki Tanaka, Faculty of Medicine, University of Montreal at the Centre de recherche de l'Hôpital Maisonneuve-Rosemont (CRHMR), yoshiaki.tanaka@umontreal.ca

See our website about projects: <https://crhmr.ciuss-sstmtl.gouv.qc.ca/en/researcher/yoshiaki-tanaka>

Selected Publications:

1. Y. Xiang*, **Y. Tanaka***, B. Patterson, S.M. Hwang, E. Hysolli, B. Cakir, K.Y. Kim, W. Wang, Y.J. Kang, E.M. Clement, M. Zhong, S.H. Lee, Y. S. Cho, P. Patra, G. J. Sullivan, S.M. Weissman, and I.H. Park, Dysregulation of BRD4 function underlies in MeCP2 mutant neurons. *Molecular Cell*, 2020, 79(1):84-98 *Equal contribution
2. **Y. Tanaka**, B. Cakir, Y. Xiang, G.J. Sullivan and I.H. Park, Synthetic Analyses of Single-Cell Transcriptomes from Multiple Brain Organoids and Fetal Brain. *Cell Reports*, 2020, 30: 1682-1689.e3
3. Y. Xiang*, **Y. Tanaka***, B. Cakir, B. Patterson, K.Y. Kim, P. Sun, Y.J. Kang, M. Zhong, X. Liu, P. Patra, S.H. Lee, S.M. Weissman, I.H. Park, hESC-derived thalamic organoids form reciprocal projections when fused with cortical organoids. *Cell Stem Cell*, 2019, 24: 487-497.e7. *Equal contribution
4. K.Y. Kim*, **Y. Tanaka***, J. Su, B. Cakir, Y. Xiang, B. Patterson, J. Ding, Y.W. Jung, J.H. Kim, E. Hysolli, H. Lee, R. Dajani, J. Kim, M. Zhong, J.H. Lee, D. D. Skalnik, J.M. Lim, G.J. Sullivan, J. Wang, I.H. Park, Uhrf1 regulates active transcriptional marks at bivalent domains in pluripotent stem cells through Setd1a. *Nature Communications*, 2018, 9: 2583. *Equal contribution
5. Y. Xiang*, **Y. Tanaka***, B. Patterson, Y.J. Kang, G. Govindaiah, N. Roselaar, B. Cakir, K.Y. Kim, A.P. Lombroso, S.M. Hwang, M. Zhong, E.G. Stanley, A.G. Elefanty, J.R. Naegele, S.H. Lee, S.M. Weissman, I.H. Park, Fusion of Regionally Specified hPSC-Derived Organoids Models Human Brain Development and Interneuron Migration. *Cell Stem Cell*, 2017, 21: 383-398.e7. *Equal contribution
6. **Y. Tanaka***, E. Hysolli*, J. Su, Y. Xiang, K.-Y. Kim, M. Zhong, Y. Li, K. Heydari, G. Euskirchen, M.P. Snyder, X. Pan, S.M. Weissman, I.-H. Park, Transcriptome Signature and Regulation in Human Somatic Cell Reprogramming. *Stem Cell Reports*, 2015, 4: 1125-39. *Equal contribution