## ABSTRACTS AND CONFERENCES

- **Hsu, C.Y.,** and Rancourt D.E. En route to non-viral reprogramming: kinetics of pDNA uptake and transgene expression following repeated transfection with multiple episomal plasmids. *University of Queensland Medical Student Research Conference.* Oct 10, 2018. Herston, QLD.
- **Hsu, C.Y.,** Walsh, T., Borys, B.S., Kallos, M.S., and Rancourt, D.E. An integrated approach towards the biomanufacturing of engineered cell therapy products in a stirred suspension bioreactor. *Princess Alexandra Hospital Health Symposium 2017/5th Annual TRI Translational Poster Symposium.* July 31-Aug 4, 2017. Brisbane, QLD,
- Borys, B.S., Le, A., **Hsu, C.Y.,** Rancourt D.E., Gates, I.D., and Kallos, M.S. Computational Fluid Dynamic Modeling of 100mL and Scaled-Down 10mL Stirred Suspension Bioreactors Enables Predication of Embryonic Stem Cell Characteristics . Scale-up and Manufacturing of Cell-based Therapies V. *An ECI Conference Series* Jan 15-19, 2017. San Diego, CA.
- Meng, G., **Hsu, C.Y.,** Liu, S., and Rancourt D.E. Enhanced Clonal Colony Formation Of Human Pluripotent Stem Cells Through The Combinatorial Effects Of Retinoic Acid Analogue And Rho-Associated Kinase Inhibitor. *2016 Till & McCulloch Meetings.* October 24-26, 2016. Whistler, BC
- Bourhill, T., **Hsu, C.Y.,** Zhang B.T., Rancourt, D.E., and Johnston R.N. Reovirus selectively target pluripotent stem cells: implications for the safety of oncolytic viruses in cancer therapy. *2016 Till & McCulloch Meetings*. October 24-26, 2016. Whistler, BC
- **Hsu, C.Y.,** and Rancourt D.E. Mouse Embryonic Stem Cells Cultured In Stirred-Suspension Environment Exhibit Spatially Distinct Differences in Pluripotency Maintenance At the Aggregate Level. *2016 International Society for Stem Cell Research.* June 22-25, 2016. San Francisco, CA
- **Hsu, C.Y.,** and Rancourt D.E. Non-viral transfection of human primary fibroblasts on microcarrier suspension culture 19th Annual Meeting of the American Society of Gene Therapy, May 4-7, 2016. Washington, DC.
- **Hsu, C.Y.,** Chen, M. J., Rancourt D.E. and Chan, J. A. An optimized approach to non-viral transfection of brain tumour initiating cells derived from embryonal tumour with multilayered rosettes using cationic reagents. 19th Annual Meeting of the American Society of Gene Therapy, May 4-7, 2016. Washington, DC.
- **Hsu, C.Y.,** and Rancourt D.E. En route to non-viral reprogramming: A multiplexed approach to simultaneously track the kinetics of DNA uptake and transgene expression following non-viral gene delivery of multiple episomal plasmid DNAs. *2015 Till & McCulloch Meetings.* October 26-28, 2015. Toronto, ON.

- **Hsu, C.Y.,** and Rancourt D.E. Cellular reprogramming of somatic cells in a scalable stirred-suspension platform by non-viral transfection of tumor-suppressing non-coding microRNA to derive patient-specific iPSC. *2014 Till & McCulloch Meetings.* October 27-29, 2014. Ottawa, ON.
- Zhang, B. T., **Hsu C.Y.,** Ito K., Rancourt, D.E. Reovirus purging of undifferentiated pluripotent stem cells from differentiated cultures is not mediated through E-ras. *2014 International Society for Stem Cell Research.* June 18-21, 2014. Vancouver, BC.
- Cota-Elizondo P.A., Shafa, M., Liu S., **Hsu, C.Y.,** Rancourt, D.E. Transdifferentiation of mouse embryonic fibroblast to chondrocytes and large-scale expansion in stirred suspension bioreactor. *2013 International Society for Stem Cell Research.* June 12-15, 2013. Boston, MA.
- Rose L., Kucharski C., Ozcan, Z., **Hsu, C.Y.**, and Uludağ H. Evaluation of Collagen Scaffolds for Direct Non-viral Gene Delivery. *9th World Biomaterial Congress.* June 1-5, 2012. Chengdu, China.
- **Hsu, C.Y.,** and Uludağ H. Reduced transgene persistence and trafficking to nuclear periphery are barriers to transfection in lipid substituted nonviral cationic polymer. *3rd International Symposium on Cellular Delivery of Therapeutic Macromolecules.* June 26-29, 2010. Cardiff, UK.
- Uludağ H., Neamark A., Suwantong O., **Hsu C.Y.**, Supaphol P. Improved Plasmid DNA Delivery by Lipid-Substitution on 2 kDa Polyethylenimine (PEI). *12th Annual Meeting of the American Society of Gene Therapy*, May 27-30, 2009. San Diego, CA.
- **Hsu, C.Y.**, and Uludağ H. Persistence of Plasmid DNA does not lead to sustained transgene expression in PEI mediated transfection in vitro: implication of transcriptional and post-transcriptional silencing. *12th Annual Meeting of the American Society of Gene Therapy*, May 27-30, 2009. San Diego, CA.
- **Hsu, C.Y.,** and Uludağ H. Transfection mediated by cationic polymer in vitro is enhanced by blocking NF-kB activation: involvement of the intracellular innate immune response in non-viral gene delivery. *12th Annual Meeting of the American Society of Gene Therapy*, May 27-30, 2009. San Diego, CA
- **Hsu C.Y.,** Zylstra A., and Uludağ H. Delivering Plasmid DNA with a Non-Viral Polymeric Carrier: Plasmid Persistence Does Not Necessarily Lead to Transgene Expression. *8th World Biomaterials Congress.* May 31-June 1, 2008. Amsterdam, NL.
- **Hsu C.Y.,** Kucharski C., and Uludağ H. The effects of DNA molecular weight and conformation on cell uptake and the binding interaction to cationic polymer used for gene deliver. *9th Annual American Society of Gene Therapy.* May 31-June 4, 2006. Baltimore, MD

