

SUCCESS STORY



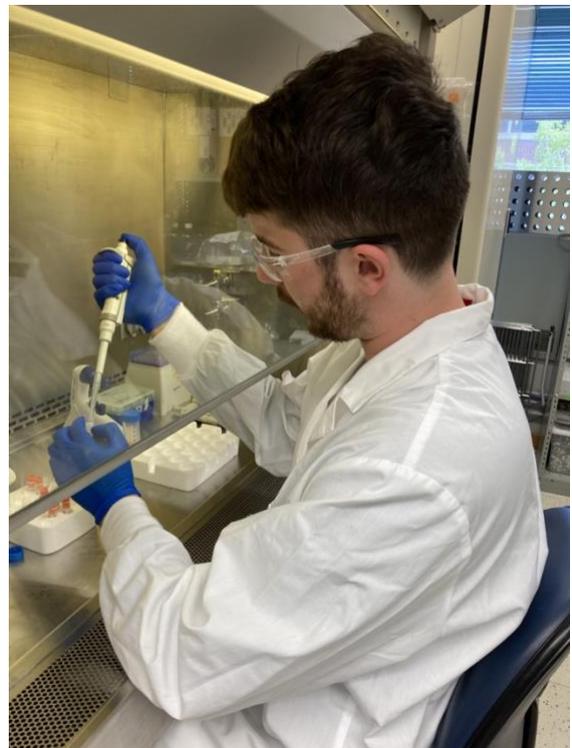
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“I had amazing mentors at PanTHERA CryoSolutions, always patient and helpful. I had heard of cryopreservation in science fiction, and I got hands-on experience while exploring the science behind it.”

As a summer intern at PanTHERA CryoSolutions, Samuel Fleury gleaned knowledge on technical and scientific skills, learned how to be a well-rounded scientist and picked up lifelong transferable skills. This was made possible by WIL funding.

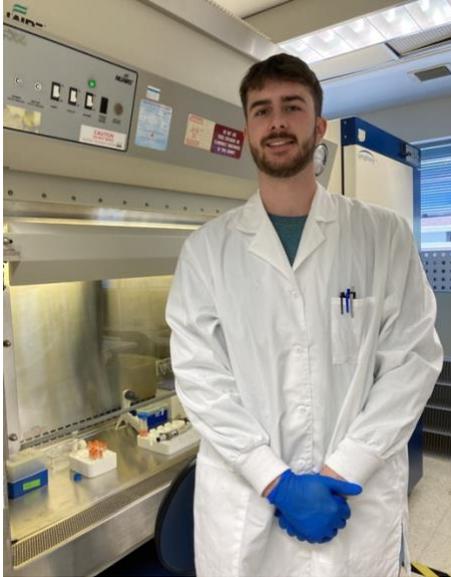
PanTHERA CryoSolutions is developing small molecules which can be added to commercial cryopreservation solutions to inhibit ice crystallization. Cryopreservation often leads to progressive damage from ice crystals forming in the cells, which adversely affect the cells' function after thawing. PanTHERA CryoSolutions' small molecules also protect against dramatic swings in temperature that can occur when frozen cells and tissues are transported.



Samuel Fleury at the PanTHERA lab

Compared to conventional technologies, PanTHERA CryoSolutions utilizes innovative ice recrystallization inhibitors to increase the recovery and viability of cells following the cryopreservation process while protecting the cells' functional capacity. This allows notable cost advantages for companies offering products in the cell and gene therapy markets. Dr. Robert Ben, PanTHERA CryoSolutions' Chief Scientific Officer notes that “with the support of its investors and partners such as BioAlberta, PanTHERA CryoSolutions is delivering an innovative solution to the current challenges facing the cryopreservation and long-term storage of current and future cell-based therapies. We are excited about this new approach to preserving the quality and efficacy of cell-based therapies and consequently, making a significant difference in people's lives.”

Samuel was an invaluable resource for the cryobiology team and helped PanTHERA CryoSolutions test its novel compound in different formulations to evaluate its advantage over others in the market. Samuel's most significant takeaway from being with PanTHERA CryoSolutions, aside from the research itself, was that he learned so much about the business that he can use to choose the avenues he wants to pursue. Learning about making a product applicable, marketing a product, collaborating, and being involved in the whole process changed and magnified his perspectives, and once he finishes his Bachelor of Science in Cell Biology (Honours) at the University of Alberta, the possibilities for Samuel are endless.



Samuel Fleury at the PanTHERA lab

When asked what excited him the most about working with PanTHERA CryoSolutions, Samuel shares, "The most exciting part of working with PanTHERA CryoSolutions is the product's application in research. Many research projects deal with patients and cells and cells are taking too long to recuperate after being frozen. PanTHERA CryoSolutions' technology can save research a lot of time. This opens a new gate of opportunity from cancer to stem cell research. Being able to make an impact on the research and ultimately the lives of people inspires me."

Students bring fresh perspectives to the table, making a significant difference in the research and next steps. PanTHERA CryoSolutions hopes to continue to inspire students to pursue this area of research and, one day, join PanTHERA CryoSolutions as one of their scientists.

WIL VOUCHER

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