

SANCHIT CHOPRA

Seymour Schulich Scholar | Chemical/Biomedical Engineering & Entrepreneurship Student @ University of Calgary

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EXPERIENCE

Undergraduate Research Student

Pharmaceutical Production Research Facility 05/2019 - Ongoing
University of Calgary

- Designed/performed experiments for large scale production of human nerve and skin-derived Schwann cells required for clinical applications
- Cultured human cell lines in static before passaging into stirred suspension bioreactors (10mL and NDS-100mL), cell sorting, microscopy, protein isolation, mass-spec and chromatography
- Optimized growth factors including feeding, agitation and seeding densities resulting in 15x fold expansions (2x more than static culture)
- Delivered on-stage presentation at Biomedical Engineering Society's Annual Meeting (Philadelphia) and poster presentations at Annual Alberta Biomedical Engineering Conference and Hotchkiss Brain Institute Summer Student Symposium

Founder And CEO

stores24x7.com 03/2020 - Ongoing Calgary, Alberta, Canada

There are endless possibilities for building your own business. We help you succeed on the web and grow your bottom line.

- Built 8 website for local businesses hosted on google cloud servers
- Actively working with City of Calgary helping local businesses have an online presence amidst the COVID-19 pandemic

Undergraduate Research Student

Mathison Centre for Mental Health Research & Education
05/2018 - 09/2018 University of Calgary

- Investigation of neural markers and predictors of treatment response to antidepressant treatment using fMRI, genetic imaging in mood disorders, and deep brain stimulation treatment for depression
- Linear mixed model analysis of longitudinal repeated mixed measures (SPSS), administering TMS (visor2 XT), electroencephalography setup and processing (MATLAB), MRI Level 1 Training
- Presented findings at Hotchkiss Brain Institute Symposium
- Abstract published in Biological Psychiatry, Volume 85, Issue 10, S338

Research Assistant

Ungrin Laboratory 07/2016 - 09/2017 University of Calgary

- Using CRISPR/Cas9 technology to model FSHD
- Synthesizing genetically engineered elements, nucleofection protocols, gel electrophoresis, cell culture, marker staining and quantitative PCR
- Presented findings at McCaig Institute Summer Student Symposium
- Calgary Youth Science Fair- top 5 project award & best senior project/gold medal from Genome Alberta

Entrepreneurship Projects

Hunter Hub for Entrepreneurial Thinking University of Calgary

- Shaping the entrepreneurial ecosystem in Calgary hosting social innovation events and interdisciplinary work
- HelpAKid.org - Increasing transparency of donations worldwide
- DormMarket.com - Student Marketplace
- Enactus - Director for Autism Works Entrepreneurship Program: Aid entrepreneurs with autism in the creation of sustainable businesses

SUMMARY

Applying technical skills in chemical/biomedical engineering to assist in optimizing production of cell and biomaterial therapies. Passionate about entrepreneurship in medical technology to improve healthcare delivery.

EDUCATION

BSc. in Chemical Engineering, Specialization in Biomedical Engineering, Minor in Entrepreneurship and Enterprise Development
University of Calgary, Schulich School of Engineering (2017-Ongoing)

AWARDS

Seymour Schulich Scholarship
Academic merit as well as contribution to school life, community service and/or entrepreneurial talent. Full-ride scholarship.

Cannon Lachapelle Scholarship for Entrepreneurship
For demonstrating creativity and innovation in new ways of doing, helping, thinking and supporting the UCalgary campus community and/or society beyond.

Alberta Sanofi Biogenius Competition - Top 5
Regional biotechnology competition presentation award

Next36 Finalist
Towards accelerating the growth of Canada's most talented young entrepreneurs by providing mentorship, capital, and founder development.

VOLUNTEERING

Patient Experience Visitor

Alberta Health Services - Foothills Medical Centre

2015 - Ongoing

- 3 hour shift weekly to interact and help the patients recover from traumatic injuries.
- Assist language barrier (Hindi to English)

Caregiver

Multiple Sclerosis Society of Canada

2016 - Ongoing

- Visit a person who has progressive MS, and other significant setbacks, including cognitive impairment and severe depression every week
- Initiate conversation and allow for friendship
- Fundraising events, including Hike for MS, A&W Burgers for MS research funding