

LABTREK Presentation

Presented By: Rabia Shuaib September 16th, 2023



Introduction



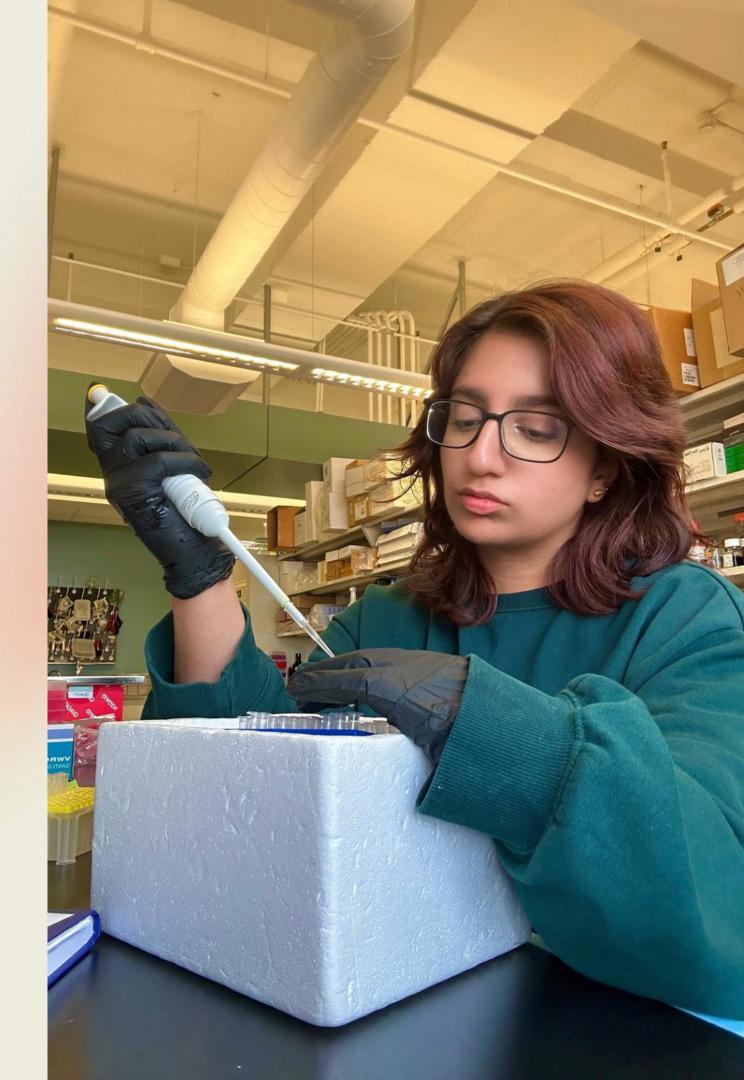
I am a 4th year student pursing biochemistry honours CO-OP with a minor in statistics.

I have previously worked in the Kothe lab for 1 year (Fort Garry -Parker building) and the Dakshinamurti lab for 4 months (Bannatyne Campus -John Buhler Research Building).

How did I end up working in the labs?

- Kothe Lab Undergraduate Research Award and continued working there as a volunteer then as a part-time research assistant.
- Dakshinamurti lab CO-OP work term.

Other methods to work on research: USRA, Enrrich Studentship, cold-emailing professors, references



Undergraduate Research Award

Share the excitement of discovery

UM is the first Canadian university to offer an Undergraduate Research Award open to undergraduate students in all fields and ranges of research, scholarly works or creative activities.

The awards are competitive. Students apply to be mentored for 16 weeks (full-time from May through August) by a professor of their choice. There are:

- 205 awards available across all disciplines
- 10 per cent of awards are available for self-declared Indigenous students
- 2 awards for community-based projects ٠
- \$7,000 monetary award
- Is a recognized UM Co-Curricular Record activity

Important Dates

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- Feb. 13, 2023 Submit your application by February 13, 2023 by 4:30 p.m. (CST)
- Start of the URA Research Work Period (tentative) May. 1, 2023

Applicants for UM Undergraduate Research Award will be given conditional notification of award in early March, with final confirmation being sent the last week of March.

Apply for the **Undergraduate Research Award**

Please note that the application period for the 2023 URAs has closed.

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Competitions and trainee opportunities

Undergraduate Research Showcase **Undergraduate Research Awards** Banting Postdoctoral Fellowships Falling Walls Lab



Science CO-OP program

Why Science Co-op

Interested in applying to Science Co-op? We look forward to having you join us! Science Co-op is more than just a job. By joining Science Co-op, you will:



Gain degree related work experience - Your competitive advantage!

Build your resume by learning new skills and developing professional work experience. Enhance your employability after graduation.



Build your professional and career network

Develop key employer and industry contacts from your co-op work terms; as well as mentoring opportunities with professionals.



Earn money while you learn

Co-op is paid work. Help pay for your education or future travel plans.



Apply your classroom learning to real-life work

By complementing your academic studies with co-op work terms, you apply what you learn in class to real-world work environments and then apply what you learn on your co-op work terms to your classroom studies.



Career exploration

Learn more about your career options. Test-drive different types of work experiences prior to graduating.



Build life-long friendships

Make lasting connections with like-minded, talented people through co-op work placements. Science Co-op

Co-op for prospective students

Co-op for current students

Co-op employers



My Research Projects

KOTHE LAB

 Analyzing the interactions of a snoRNA snR30 and ribosomal RNA during ribosome assembly in Saccharomyces cerevisiae

Skills I learned:

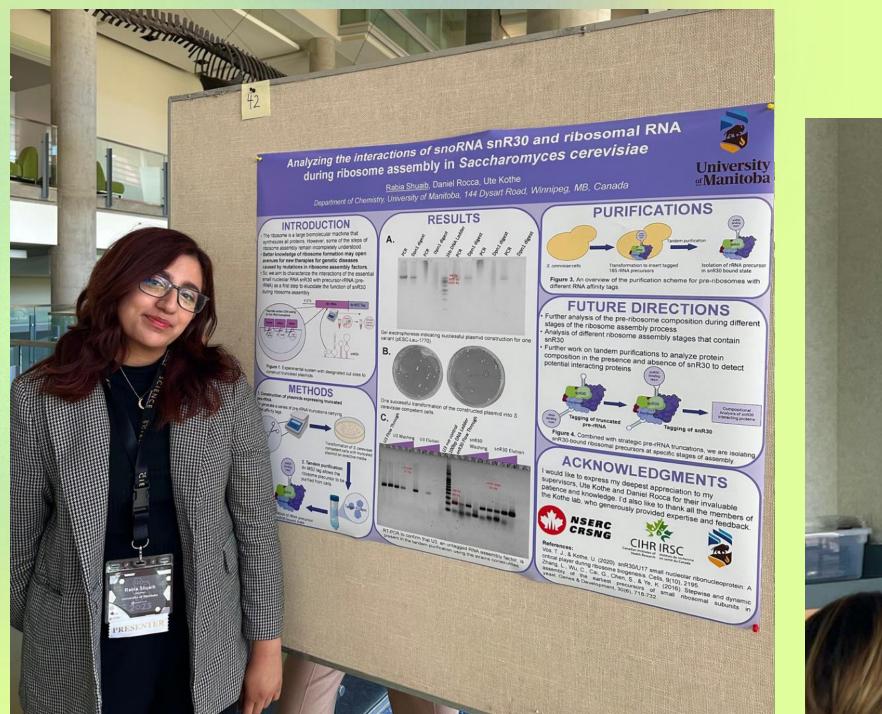
- Yeast cell culture and transformations
- E. coli cell culture
- Polymerase chain reaction (PCR)
- Agarose gel electrophoresis
- Genome sequencing

- Mapping the Distribution of Adenylyl Cyclase Isoforms in Hypoxic Neonatal Pulmonary Arteries
 Skills I learnt:
 - Pulmonary arterial smooth muscle cell culture
 - Real-time quantitative PCR (RT-qPCR)
 - Western blots
 - RNA Isolation
 - Immunocytochemistry

DAKSHINAMURTI LAB



Scientific Communication Skills





Western Canadian Undergraduate Chemistry Conference 2023

CO-OP Oral Presentation - Dakshinamurti lab

Why I recommend research?

- Helps with critical thinking
- You meet great people and form lots of connections
- Contribution to the research community
- Opportunity for hands-on learning and application
- Helps develop adaptability skills
- Sense of accomplishment



Kothe Lab Group Picture - Summer 2022