

Sina Abedini

Biochemistry Master's Student at McGill University

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Montreal, Canada

Research Interests

- Cancer Biology
- Nanodisc Technology
- Genetic Engineering
- Protein Biochemistry
- Molecular Biology
- Chemical Biology
- Structural Biology
- Pharmacology
- Metabolic Biochemistry

Education

Master of Science (M.Sc.) in Biochemistry

School of Biomedical Sciences - Biochemistry Department - McGill University

September 2023 – Present

Montreal, Canada

McGill University

- cGPA: 3.65/4

Bachelors of Science (B.S.) Degree in Biotechnology

School of Biology - University of Tehran

September 2019 – August 2023

Tehran, Iran

University of Tehran

Ranking

- Overall GPA: 18.69/20 (3.9/4)

High School Diploma in Natural Sciences

Mofid 2 High School

September 2016 – Present

Tehran, Iran

- Overall GPA: 19.65/20 (4/4)

Honors and Awards

- Grad Excellence Award in Biochemistry (2023)
- Awarded McGill University Full scholarship for graduate program in Biochemistry: tuition fully covered (2023)
- Ranked 3rd in Biotechnology class of 2023, qualified for direct entry to fully funded masters program at the University of Tehran (2022)
- Awarded University of Tehran Full scholarship for undergraduate program: tuition fully covered by the government (2019)
- Ranked top 0.5 percent of 700000 attendees of the nationwide natural sciences matriculation exam (2019)
- Ranked 7th out of 139000 participants in the nationwide English language matriculation exam (2019)

Teaching Experience




Teaching Assistantship

University of Tehran

Oct 2022 - present

School of Biology

- **Biochemistry:** Dr.S.Safarian
 - Teaching the class topics from general and organic chemistry complementary to the biochemistry course
 - Reinforcing class lessons
 - Familiarizing the students with the course at hand
 - Answering student's questions

- **Specilized English texts:**  Dr.V.Hassanzadeh
 - Familiarizing students with the overall structure and writing style of textbooks and papers written in English
 - Practicing reading, speaking and writing in academic and scientific settings
 - Reinforcing class lessons
 - Answering student's questions
- **General Biology:**  School of Mathematics and Computer Science
 Dr.R.Naderloo
 - Teaching the students basic concepts of biology and genetics with emphasis on the central dogma of molecular biology
 - Relating biological concepts to data structure and paving the way into the field of Bioinformatics
 - Answering student's questions

Highschool Tutoring

Mofid 2 High school

 Sep 2022

- **Biology and Chemistry:**
 - Reviewing topics from first, second and final year of high school biology
 - Guidance counselling for preparation for the matriculation exam
 - Answering student's questions
- **English:**
 - Practicing reading comprehension and translation skills with the students
 - Answering student's questions

Related Coursework

Graduate Coursework

Structural Pharmacology: (PHAR505) 3/4	Protein Biology and Proteomics: (BIOC605) 4/4
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Undergraduate Coursework

Metabolism Biochemistry: 4/4	Structural Biochemistry: 4/4	Organic Chemistry: 4/4
Molecular Genetics: 4/4	Genetic Engineering: 4/4	Microbial Physiology: 4/4

Laboratory Skills

- Bacterial, Plant & Animal Cell Culture
- Protein Extraction
- SDS-PAGE
- Pour Plate & Spread Plate Method
- Protein Purification
- SEC/FSEC
- Nanodisc preparation
- Bacterial Transformation

Computer skills

- **Microsoft Suit:**
Powerpoint, Word, Excel
- **Programming:**
Python
- **Analysis Tools:**
SPSS, PyMOL, SnapGene

Language Skills

- **English:**
 - TOEFL: 113
(Reading: 30, Listening: 29, Speaking: 30, Writing: 24)
 - GRE: 312
(Verbal: 155, 66th percentile, Quantitative: 157, 57th percentile)
- **Arabic:**
Intermediate
- **French:**
Basic
- **Persian:**
Native

Supervisor

- **Dr. Kalle Gehring,**

✉ kalle.gehring@mcgill.ca

🌐 Lab Website

Professor, Department of Biochemistry,
Canada Research Chair (Tier 1) in Structural Studies of Neurodegenerative Diseases,
Associate member, Department of Physics,
McGill University