

**Carson Karakis**  
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## **EDUCATION**

**Icahn School of Medicine at Mount Sinai**, New York, NY  
Doctor of Medicine (MD) Expected May 2029

**The Ohio State University**, Columbus, OH May 2024  
Bachelor of Science in Neuroscience  
Major: Neuroscience; Minor: Business  
GPA: 4.00/4.00  
Relevant Coursework: *Cell Biology, Evolutionary Biology, General Chemistry, Organic Chemistry, Molecular Neuroscience, Biochemistry, Neuroanatomy and Neurophysiology*

## **HONORS & AWARDS**

**The Ohio State University**  
Deans List  
Distinguished Undergraduate Teaching Assistant May 2023  
Robert F. Gagel/Margo Cox Endowment Fund April 2022, 2023  
Sons and Daughters Scholarship Aug 2020

**Boy Scouts of America** Nov 2019  
Eagle Scout, Boy Scouts of America

## **RESEARCH EXPERIENCE**

*The Ohio State University, Columbus, OH* May 2023 – July 2025  
**Translational Research Assistant**

- Created, Maintained, and performed cell-based assays on multiple cell cultures and for downstream analysis.
- Performed cell-based assays to investigate the role of IWS1 in metastatic ability of liposarcoma.
- Conducted remote clinical data review to support ongoing projects and publications.
- Assisted in preparing manuscripts, abstracts, and reports through literature review, data organization, and scientific writing.

## **CLINICAL EXPERIENCE**

*Medcare, Columbus, OH*

### **Emergency Medical Technician - Basic**

Aug 2024 – May 2025

- Provided safe and efficient interfacility patient transports, ensuring continuous monitoring and care for stable and critical patients.
- Collaborated with paramedics during emergency response calls to assist with basic life support interventions under their guidance.

## **LEADERSHIP AND TEACHING EXPERIENCE**

*The Ohio State University, Columbus, OH*

Nov 2022 – Feb 2023

### **Mount Scholars Legacy Week Advisor**

Nov 2023 – Feb 2024

- Led a group of first year students to complete a service project for the community
- Continuously provided conflict resolution to maintain productivity

*Wexner Medical Center Emergency Department, Columbus, OH*

May 2023 – May 2024

### **CPR Outreach Intern**

- Provided the general public with knowledge on how to perform hands only CPR
- Coordinated events with the surrounding community

*Wexner Medical Center, Columbus, OH*

Aug 2023 – Dec 2023

### **Ambassador**

- Greeted and assisted visitors, providing a positive and welcoming atmosphere.
- Provided information and directions to patients and visitors

*The Ohio State University, Columbus, OH*

July 2022 – May 2023

### **Chimes Junior Honorary Secretary**

- Served as secretary for a student-led philanthropy group, responsible for maintaining accurate and up-to-date records of meetings, events, and financial transactions.

Managed the group's volunteer program, recruiting and training volunteers and coordinating volunteer schedules.

*The Ohio State University, Columbus, OH*

Dec 2022 – May 2023

### **General Chemistry Head Teaching Assistant**

- Assisted professors in the delivery of undergraduate general chemistry course, leading discussion sections, grading exams and assignments, and providing one-on-one tutoring for students.

*Akron General Medical Center, Columbus, OH*

May 2021 – Dec 2023

**Volunteer**

- Completed a transfer project for all of the physical physician files to be electronically scanned and organized on the hospital's servers.
- Demonstrated strong organizational and interpersonal skills while managing administrative tasks and providing exceptional customer service

*North Community Counseling Center, Columbus, OH*

Aug 2021 – Jan 2022

**Marketing Volunteer**

- Managed the design and distribution of a pole to gather data on
- Collaborated with a cross-functional team to plan and execute fundraising events

*The Ohio State University, Columbus, OH*

July 2021 – Dec 2022

**General Chemistry Teaching Assistant**

- Provided support to undergraduate students in the general chemistry laboratory course by demonstrating laboratory techniques, monitoring safety procedures, and grading lab report quizzes.

*The Ohio State University, Columbus, OH*

Nov 2020 – Feb 2021

**Recruitment, Outreach and Welcome Committee Member**

- Served as an advisor to a student-led organization, providing guidance and support to the executive board, facilitating meetings, and assisting with event planning and fundraising.

## **PRESENTATIONS**

**Karakis, C.**, “The Effects of IWS1 on the Invasion and Migration Potential of a Gastric Adenocarcinoma Cell Line” PowerPoint presentation delivered at CREATES Symposium, Ohio State University, Columbus, OH, July 2023

**Carson Karakis**, Marina Goryunova, Elizaveta K. Titerina, Nipin Sp, Raphael E. Pollock, Joal D. Beane. Establishment of in vitro models of invasive Dedifferentiated Liposarcoma using cell lines derived from patient samples, Spring Undergraduate Research Festival, Poster Presentation, Ohio, 2024

## **PROCEEDINGS PUBLISHED**

Goryunova, M., He, Y., **Karakis, C.**, Titerina, E. K., Salazar-Puerta, A. I., Tahara, S., ... & Beane, J. D. (2025). Molecular docking and biological evaluation of a novel IWS1 inhibitor for the treatment of human retroperitoneal liposarcoma. *Scientific Reports*, 15(1), 22965.

Dunlop HM, Chick RC, **Karakis C**, et al. Persistent poverty impacts survival and National Comprehensive Cancer Network guideline-concordant care for patients with melanoma. *Journal of Clinical Oncology*. 2024;42(16\_suppl):1598-1598.  
doi:[https://doi.org/10.1200/jco.2024.42.16\\_suppl.1598](https://doi.org/10.1200/jco.2024.42.16_suppl.1598)

Elizaveta K. Titerina, Marina Goryunova, Nipin Sp, **Carson Karakis**, Patricia Sarchet, Raphael E. Pollock, Carlo M. Croce, Alessandro La Ferlita, and Joal D. Beane. Targeting Small Non-coding RNAs to Treat Dedifferentiated Liposarcoma. Society of Surgical Oncology SSO 2024 Annual Meeting. *Ann Surg Oncol* 31 (Suppl 1), 1-294 (2024). DOI: [org/10.1245/s10434-024-15179-y](https://doi.org/10.1245/s10434-024-15179-y).

Marina Goryunova, Yiran He, Nipin Sp, Elizaveta K. Titerina, Sayumi Tahara, **Carson Karakis**, Alessandro La Ferlita, Michael Sorkin, Alex Kim, Hua Zhu, Christopher M. Hadad, Raphael E. Pollock, and Joal D. Beane. Abstract 2088: Targeting transcriptional factor IWS1 as a potential treatment of advanced dedifferentiated liposarcoma. *Cancer Res* (2024) 84 (6\_Supplement): 2088. DOI: [org/10.1158/1538-7445.AM2024-2088](https://doi.org/10.1158/1538-7445.AM2024-2088).

Targeting sncRNAs to Treat Dedifferentiated Liposarcoma”, Elizaveta K Titerina; Marina Goryunova; Nipin Sp; **Carson Karakis**; Patricia Sarchet; Raphael Pollock; Alessandro La Ferlita; Joal Beane. The 49th Annual Zollinger Visiting Professorship, and the 29th Annual Department of Surgery Research Conference, Columbus, Ohio, USA. May 2, 2024.

“Targeting Small Non-coding RNAs to Treat Dedifferentiated Liposarcoma”, Elizaveta K Titerina, Marina Goryunova, Nipin Sp, **Carson Karakis**, Robert Chick, Patricia Sarchet, Raphael Pollock, Alessandro La Ferlita, Joal D Beane. Society of Surgical Oncology 2024 ANNUAL MEETING, Sarcoma Parallel Session, March 21, 2024, Atlanta, Georgia, USA.

Small Non-Coding RNAs as Novel Therapeutic Targets for Dedifferentiated Liposarcoma”, Elizaveta K. Titerina, Marina Goryunova, Nipin Sp, **Karakis**, Sarchet, Raphael E. Pollock, Carlo M. Croce, Alessandro La Ferlita, Joal D. Beane. 14th Annual Steps For Sarcoma Walk and Fundraising, September 12, 2023, Columbus, Ohio, USA.

## **SKILLS**

**Laboratory Procedures:** Confocal microscopy, Cell Culturing, Cloning, CRISPR-Cas9 gene editing, Western blotting, RT-PCR, Transwell Migration and Invasion assays, and Lentiviral Transfection.

**Language:** Proficient in English. Beginner verbal and Intermediate written communication skills in Spanish

**Computer:** Intermediate in Microsoft Office Suite. Novice in ImageJ and Prism.

## **REFERENCES**

References can be provided upon request