

Student Example

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EDUCATION

- Marian University, Indianapolis, IN** – *B.S in Biology, B.S in Public Health* *Expected May 2022*
- Minor: Chemistry; Concentrations: Cellular & Molecular Biology and Health Sciences
 - GPA: 4.0/4.0
- North Central High School, Indianapolis, IN** – *North Central Academic Honors Diploma* *Graduated May 2018*
- GPA: 4.852/4.0

RESEARCH EXPERIENCE

Marian University, Indianapolis, IN

Research Assistant for Jason Chan, Ph.D. *December 2019-Present*

- Examine the role of sphingolipids on longevity and healthspan in the model *Caenorhabditis elegans*
- Evaluate transcriptional changes in mutant animals using qRT-PCR
- Investigated the role of ceramide enzymes on *daf-2*, *clk-1*, *eat-2*, and *hyl-2* mutants using RNAi
- Analyzed multivariate datasets using R Statistical Programming
- Demonstrated the L-histidine biosynthesis pathway are differentially expressed in *E. coli* grown on Nematode Growth Media versus 5'-fluorodeoxyuridine (FUdR) supplemented media

Research Assistant for Thad Wilson, Ph.D.

Summer 2019

- Investigated the relationship between histamine and eccrine sweat gland through clinical research
- Completed medical screens, analyzed preliminary data, and composed IRB proposal

Biochemistry Lab

Fall 2020-Present

- Elucidating the role of HOXA5 as an essential metastatic regulator in CAL27 and HN12 head and neck squamous cell carcinomas by proliferation assays, scratch assays, and basement membrane invasion assays
- Verified expression of HOXA5 plasmid for future metastasis assays via Western Blot

Cell Biology Lab

Fall 2019

- Studied the relationship between the PVD motor neuron in *C. elegans* and nicotine in developing worms with fluorescence microscopy

PRESENTATIONS

The role of ceramide metabolism enzymes, *hyl-2*/ceramide synthase and *asm-3*/acid sphingomyelinase on lipid metabolism. **Poster**, 23rd International *C. elegans* Conference, 2021

- Awarded Best Undergraduate Poster

The functional loss of ceramide metabolism enzymes ceramide synthase and acid sphingomyelinase on lipid metabolism and healthspan. **Poster**, American Society of Biochemistry and Molecular Biology Annual Meeting, 2021. The FASEB Journal, 35:. <https://doi.org/10.1096/fasebj.2021.35.S1.02087>

The role of ceramide metabolism enzymes ceramide synthase and acid sphingomyelinase on lipid metabolism. **Poster**, Sigma Zeta National Convention, 2021

Elucidating the Pathological Role of HOXA5 as an Essential Metastatic Regulator. **Poster**, Marian University Research Symposium, 2021

Using a lipidomics approach to analyze the role of sphingomyelin in aging in *C. elegans*. **Poster**, American Society of Biochemistry and Molecular Biology Annual Meeting, 2020. The FASEB Journal, 34: 1-1. [doi:10.1096/fasebj.2020.34.s1.09389](https://doi.org/10.1096/fasebj.2020.34.s1.09389)

Elucidating the Pathological Role of HOXA5 as an Essential Metastatic Regulator. **Poster**, Sigma Zeta National Convention. 2021

An analysis of ceramide and lipid metabolism in aging *C. elegans*. **Poster**, American Society of Cell Biology Annual Meeting, 2020

Using a Lipidomics Approach to Analyze the Role of Ceramide in Aging *C. elegans*. **Oral Presentation**, Indianapolis Worm Meeting, 2020.

PVD Neuronal Growth When Exposed to Nicotine in *C. elegans*. **Poster**, Marian University Research Symposium, 2019

Studying Neuromyotonia and Axonal Neuropathy Through Cloning the Homologous HNT2 Gene. **Poster**, Marian University Research Symposium, 2019

- Awarded winner of the genetics division and selected for the Outstanding Achievement Award

PUBLICATIONS

McIntyre, G., Wright, J., Wong, H.T. *et al.* Effects of FUdR on gene expression in the *C. elegans* bacterial diet OP50. (2021) *BMC Res Notes* 14, 207. Article, <https://doi.org/10.1186/s13104-021-05624-6>

RESEARCH AWARDS

The Barry Goldwater Excellence in Education Foundation

March 2021

- Awarded the prestigious national scholarship that identifies students committed to a career in research in the natural sciences and show a potential for significant future contributions

Sigma Zeta National Science and Mathematics Honors Society Research Award

Mentor: Trisha Staab, Ph. D.

December 2020

- Using a lipidomics approach to analyze the role of ceramide in aging *C. elegans*

Sigma Zeta National Science and Mathematics Honors Society Research Award

Mentor: Colleen Doci, Ph. D.

December 2020

- Elucidating the physiological role of HOXA5 as an essential metastatic regulator

PROFESSIONAL EXPERIENCE

Marian University, Indianapolis, IN

Presidential Ambassador

April 2020-Present

- Represent Marian University as a brand ambassador by embodying Marian's mission and values
- Network with community leaders and executives at prestigious campus events

Marian Ambassador

August 2019 - Present

- Familiarize a diverse population of prospective students with Marian's campus, student resources and services
- Introduce prospective students to faculty and staff
- Participate in student panels and recruitment events to provide an enhanced perspective of student life at Marian

Orientation Leader

February 2019- January 2021

- Guided 15-20 incoming Marian University students throughout their transition and registration process
- Facilitated new student interaction, activities, participation, and discussion
- Mastered group video, virtual tools, and other electronic communication means to effectively enable virtual connections and learning

Sherish Connect, Indianapolis, IN – Internship

Summer 2018

- Interned for a start-up company that created a cloud-based picture device for residents of long-term care facilities
- Organized and researched benchmark information on long-term acute care facilities and entered data into system
- Created business advertisements for various events aimed at connecting family members with their resident
- Attended business meetings and statewide conferences to network with long-term and short-term care facilities

LEADERSHIP AND ENGAGEMENT

Trinity Free Clinic - Volunteer

August 2020 - Present

- Administer COVID-19 screening questionnaire and checked patient temperatures using no-contact thermometer
- Shadow pediatricians and engaged in well child checkups and physicals
- Enter patient information and medical records into Athenahealth healthcare management system

Sigma Zeta National Science & Mathematics Honors Society – Co-President

August 2019 – Present

- Uphold SZ mission while coordinating events, meetings, member recruitment, and task delegation as necessary
- Participate in career development activities and research skill development
- Engage in community service and general community science education

National Society of Leadership and Success, Marian University, Indianapolis, IN – Member *February 2019-Present*

- Nominated by faculty and staff to join leadership honor society
- Completed a Certificate of Leadership Training

Honors Academy, Marian University, Indianapolis, IN – Member *August 2018-Present*

- Selected to be part of a small-group dedicated to higher level learning, exploration, and academic excellence
- Focus on building strong relationships with the individuals in the cohort

Track and Field Team, Marian University, Indianapolis, IN – Student-Athlete *August 2018-Present*

- Awarded scholarship based on academic and athletic excellence
- Demonstrate time management skills in balancing academic, athletic, and work obligations
- 2020 Pole Vault NAIA Indoor National Qualifier
- 2019-2020 Daktronics Scholar Athlete

Pole Vault Elite, Cicero, IN – Club Team Member *2015-Present*

- Attend practices up to 3 times a week to ensure better pole vault performance in the offseason
- Lead small groups at meets and on team trips

PROFESSIONAL ASSOCIATIONS

- Genetics Society of America *2021-Present*
- American Society of Cell Biology *2020-Present*
- American Society for Biochemistry and Molecular Biology (ASBMB) *2019-Present*

ACCOLADES

- Purichia Recognition of Excellence in Biology Award *April 2021*
- Barry Goldwater Excellence in Education Scholarship Recipient *March 2021*
- Genetics Society of America Undergraduate Conference Award *March 2021*
- Sister Mary Rose Stockton Excellence in Chemistry Award *April 2019*
- Undergraduate College of Arts and Science Research Symposium: Outstanding Achievement Award *April 2019*
- National Society of Leadership and Success Certificate of Leadership Training *April 2019*
- St. Francis Academic Scholarship *August 2018-Present*
- Dean's List *August 2018 - Present*
- Undergraduate Cross Cultural Research Symposium: Outstanding Achievement Award *Fall 2018*
- Key Bank Key Community Player Award *2014-2018*

SKILLS

Research Skills

- PCR
- Gel Electrophoresis
- Fluorescence Microscopy
- RNA Extraction
- qRT-PCR
- *C. elegans* culture techniques
- RNAi
- Spectroscopy
- Bradford assay
- SDS-PAGE
- Western analysis
- Tissue culture

Software

- SigmaPlot
- AcqKnowledge
- BioPac
- LoggerPro
- ImageJ
- EndNote
- R Statistical Programming
- Serial Cloner