

Ariel Labkins

1234 Laboratory Lane, Green Bay, WI 54303

920-555-5555

Ariel.labkins@mymail.nwtc.edu

*Curriculum Vitae*

**Education**

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**A.A.S. Laboratory Science Technology**

Northeast Wisconsin Technical College, Green Bay, WI

Graduation Date: May 2022

GPA: 3.8

**Research Experience**

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**LURE Program**, Summer 2021

Northeast Wisconsin Technical College

Advisor: Dr. Jennifer Parks-Tigert

- Observed effects of N-acetylcysteine on methylmercury exposed aquatic organisms
- Used sterile technique, dissecting scope, compound scope, autoclave, hemocytometer

**Lando/REU Program**, Summer 2021

Northeast Wisconsin Technical College

Advisor: Dr. Christine Schillinger

- Began carrying out synthesis of heptol predicted to be acidic in aprotic solvents due to intramolecular hydrogen bond stabilization of the anion
- Used NMR (proton, carbon, COSY, DEPT), MPLC and GC-MS

**Independent Research Course**, Spring 2021

Northeast Wisconsin Technical College

Advisor: Dr. Kathleen Larkin

- Used Gaussian to determine a relationship between activation energies of metabolism of aromatic amines and their relative toxicity
- Wrote input files, interpreted outputs from Gaussian 03

**Independent Research Course**, Spring 2021

Northeast Wisconsin Technical College

Advisor: Dr. Tracy Corrigan

- Molecular neurobiology - assessed techniques including epigenetics, Cre-Lox recombination, and knock-out mouse models
- Produced an independent study on the neuroinflammatory response of N9 microglial cells through treatment with Resveratrol

**Independent Research Course**, Fall 2020

Northeast Wisconsin Technical College

Advisor: Dr. Amy Smits

- "Plain Vanilla"
- Carried out and refined synthesis of vanillin for use in the undergraduate organic chemistry lab 2 course

## Selected College Coursework

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### Microbiology

- Focused on disease-causing microorganisms, appropriate prevention, treatment, control mechanisms
- Learned history, morphology, physiology, nutritional growth requirements, metabolism, and methods of identification

### General Biology

- Focused on general biological concepts/principles
- Learned cell structure/function, genetics, evolution, and taxonomical relationships

### Organic Chemistry 1

- Learned about chemical bonding, nomenclature of organic molecules, physical and chemical properties of organic molecules and functional groups, reactivity, stereochemistry, reaction mechanisms, and oxidation and reduction of organic molecules

### Organic Chemistry 2

- Learned about reactions, mechanisms, synthesis, and spectroscopy of organic compounds

### Cell and Molecular Biology

- Focused on cell structure and function, genetics control and function, membrane transport and trafficking, cell division, evolution, and cellular energetics

### General Physics 1

- Applied basic physics principles: problem-solving, laboratory investigation, and applications including unit conversion and analysis, vectors, translational and rotational kinematics/dynamics, heat/temperature, and harmonic motion and waves

### General Physics 2

- Applied basic physics principles relating to mechanical waves, harmonic motion, wave and ray optics, electricity, and magnetism

### Experimental Design

- Analyzed the principles of successful experimental design and execution
- Applied the steps of the scientific method to design sound experiments based on scenarios from research and industrial settings

## Awards and Honors

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### Phi Theta Kappa, Northeast Wisconsin Technical College, Spring 2021

- Description of award

### Outstanding Student Award, Northeast Wisconsin Technical College, Fall 2020

- Description of award

## Presentations

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**Labkins, A.** (September 2020). **Antihistamines modulate the inflammatory activity of cultured microglia.** Poster presented at NWTC.

**Labkins, A.** (April 2020). **The anti-histaminergic drug Clemastine decreases cell viability but increases growth factor expression in cultured microglia.** Poster presented at NWTC.

## Leadership and Extracurricular Activities

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**Phi Theta Kappa**, May 2021 – May 2022

- Attended meetings, fundraisers, seminars, and other project and activities

**Science Club Member**, February 2021 – May 2022

- Found fun, educational ways to spread the love of science to NWTC and the community
- Ran events including Pi Day Celebration, Einstein Expo Science Fair for kids, museum field trips, various fund raisers, and trivia contests

**African American Student Association**, September 2020 – December 2021

- Learned in depth about ethnical and cultural background as well as the impact on the NWTC community; attended events during Black History Month

## Professional Enrichment

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**“Frontiers in Science” Series: Confronting Vaccine Myths in COVID Times**, April 2021

- Attended a virtual presentation by Dr. Angelo Kolokithas and Dr. Matt Petersen regarding updates to students and staff about the Covid-19 vaccine

**TED Talk: “Medicine’s Future - There’s an App for That”**, October 2020

- Daniel Kraft talked about the future of medicine

## References

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Formal name of reference (with degrees)

Title

Full mailing address

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