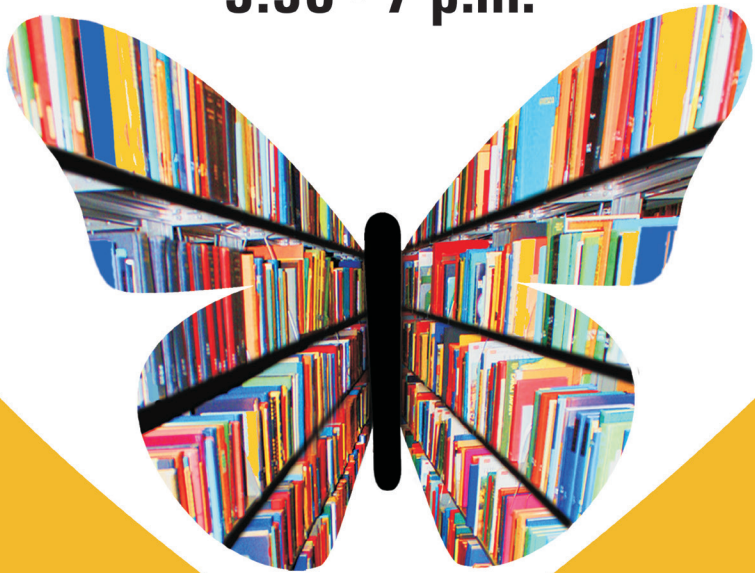


24th ANNUAL

Student Research Symposium

Thursday, April 28, 2022
3:30 - 7 p.m.



Manchester
University

Sponsored by
the Office of
Academic Affairs

Academic Center and
Jo Young Switzer Center

Manchester University Student Research Symposium

Sponsored by the
Office of Academic Affairs
Thursday, April 28, 2022
3:30 - 7 p.m.

Master Itinerary

Academic Center

3:30 p.m.	Programs available in Academic Center Lobby
3:30 p.m.	Rooms open for oral presentations
3:55 - 4:15 p.m.	Oral Presentations, Various Rooms
4:20 - 4:40 p.m.	Oral Presentations, Various Rooms

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Jo Young Switzer Center

4:45 - 5:55 p.m.	Poster presentations and refreshments, Speicher Room
6 - 6:30 p.m.	Student Keynote Presentation, Lahman Room
6:30 - 6:50 p.m.	Presentation of awards
7 p.m.	Group picture

2022 Student Research Symposium Committee

Dr. Dennis Brown, Associate Professor of Pharmaceutical Sciences,
co-chair

Dr. Jennifer Robison, Assistant Professor of Biology, co-chair

Dr. Marcie Coulter-Kern, Professor of Psychology

Beth Driscoll, Assistant Professor of Marketing and Management

Dr. Katharine Ings, Professor of English

Kathrine Dwyer, representing Academic Affairs

Oral Presentations: Session I

Academic Center, Room 146

Dextromethorphan analogs used as anti-inflammatory agents

3:55 - 4:15 p.m.

Breia Leavell Class of 2023

Major(s): Pharmacy

Faculty Mentor: Dr. Dennis Brown

Evaluation of the anti-inflammatory activity of 3-(2-chlorophenyl)-3-oxopropanenitrile

4:20 - 4:40 p.m.

Katie Clauser Class of 2022

Major(s): Biology

Faculty Mentor: Dr. Dennis Brown



Oral Presentations: Session II

Academic Center, Room 149

The Cambodian Genocide and The Enduring Path to Recovery, 1975 - 2018

3:55 - 4:15 p.m.

Drew Gavit Class of 2022

Major(s): History

Faculty Mentor: Dr. Uma Ganesan

Ukraine and Russia: The 8 Year War - Proposing Nonviolent Solutions to Macro-Level Conflict

4:20 - 4:40 p.m.

Kora Beasley Class of 2024

Major(s): Population Health

Maddie Jagger Class of 2024

Major(s): Peace Studies, Political Science

Andrew Kreps Class of 2025

Major(s): Environmental Studies

Libby Kreps Class of 2023

Major(s): Educational Studies, Peace Studies

Madalyn Miller Class of 2023

Major(s): Political Science

Shayla Welch **Class of 2023**
Major(s): Educational Studies, Mathematics, Peace Studies
Faculty Mentor: Dr. Katy Gray Brown



Oral Presentations: Session III

Academic Center, Room 234

Examining the Functionality and Importance of MED16 in Soybean Cold Response

3:55 - 4:15 p.m.

Rebecca Long..... **Class of 2022**

Major(s): Biology-Chemistry

Allie Goins **Class of 2022**

Major(s): Biology

Faculty Mentor: Dr. Jennifer Robison

Investigating the Local and Systemic Wounding Response in Soybean

4:20 - 4:40 p.m.

Mallory Sands **Class of 2022**

Major(s): Biology-Chemistry

Faculty Mentor: Dr. Jennifer Robison



Oral Presentations: Session IV

Academic Center, Room 236

Three Microhistories of Theft and Repatriation

3:55 - 4:15 p.m.

Amira Siddiqui..... **Class of 2022**

Major(s): History

Faculty Mentor: Dr. Michael Staudenmaier

Biodegradation of 1,3-Dihenylpropane

4:20 - 4:40 p.m.

Brisa Arriaga Banda Class of 2022

Major(s): Biology-Chemistry

Brooke Bouwens Class of 2023

Major(s): Biology-Chemistry

Faculty Mentor: Dr. Jeffrey Osborne



Research Posters

4:45 - 5:55 p.m.

Speicher/Lahman Room, Jo Young Switzer Center

“Act Your Wage” How Collegiate Compensation Effects Employee Engagement

Caitlin McGettrick..... Class of 2022

Major(s): Psychology

Sydney Newton Class of 2022

Major(s): Psychology, Psychology and Religious Culture

Alex Sanchez Class of 2022

Major(s): Psychology

Faculty Mentor: Dr. Marcie Coulter-Kern

Anti-inflammatory activity of dithiolethiones 6-37

Samuel Balemba..... Class of 2024

Major(s): Pharmacy

Brandon Nguyen..... Class of 2024

Major(s): Pharmacy

Hussein Soueidan Class of 2024

Major(s): Pharmacy

Ilinca Timar Class of 2024

Major(s): Pharmacy

Faculty Mentor: Dr. Dennis Brown

Biodegradation of 1,3-Dihenylpropane

Brisa Arriaga Banda Class of 2022
Major(s): Biology-Chemistry

Brooke Bouwens Class of 2023
Major(s): Biology-Chemistry
Faculty Mentor: Dr. Jeffrey Osborne

Cellular Toxicity of a Novel Compound, BG-45, in U-87 Glioblastoma Cells

Matthew Hartman..... Class of 2024
Major(s): Pharmacy, Pharmacogenomics
Faculty Mentor: Dr. Diane Calinski

Characterization benzoyl acetonitriles as anti-neuroinflammatory agents

Jeremiah Saylae..... Class of 2023
Major(s): Pharmacy
Faculty Mentor: Dr. Dennis Brown

Deep Work in College Students

Kaylee Blough..... Class of 2024
Major(s): Psychology

Victoria Blough..... Class of 2024
Major(s): Psychology

Kodi Douglass..... Class of 2024
Major(s): Psychology, Psychology and Religious Culture, Criminology

Zoe Gascho..... Class of 2024
Major(s): Psychology and Religious Culture
Faculty Mentor: Dr. Marcie Coulter-Kern

Determining the Conservation and Expression of Untiered Pharmacogenes in Zebrafish

Meghan Billeck..... Class of 2023
Major(s): Pharmacogenomics

Michael Carroll Class of 2024
Major(s): Pharmacy
Faculty Mentor: Dr. Joe Chambers

Dextromethorphan analogs used as anti-inflammatory agents

Breia Leavell Class of 2023

Major(s): Pharmacy

Faculty Mentor: Dr. Dennis Brown

Evaluation of cytochrome P450 inhibition by the synthetic cathinones butylone and MDPPP

Ashley Springer Class of 2023

Major(s): Pharmacy, Pharmacogenomics

Faculty Mentor: Dr. Diane Calinski

Examining the Functionality and Importance of MED16 in Soybean Cold Response

Rebecca Long..... Class of 2022

Major(s): Biology-Chemistry

Allie Goins Class of 2022

Major(s): Biology

Faculty Mentor: Dr. Jennifer Robison

How Emotional States Impact Focus: A Study on Deep Work

Valeria Acosta..... Class of 2024

Major(s): Psychology and Religious Culture

James Corgan Class of 2023

Major(s): Psychology

Isabella Gregory Class of 2024

Major(s): Psychology and Religious Culture

Faculty Mentor: Dr. Marcie Coulter-Kern

How Regretful Messages Influence Others

Madison Fielder Class of 2023

Major(s): Psychology

Jenna Kane Class of 2023

Major(s): Psychology

Halle Planck..... Class of 2023

Major(s): Psychology

Jabari Webb Class of 2023

Major(s): Psychology

Faculty Mentor: Dr. Mark McCoy

How Specific Study Environments Affect Students’ Quality of Focus

Lane Reed..... Class of 2022

Major(s): Psychology

Faculty Mentor: Dr. Marcie Coulter-Kern

Mechanism Based Inactivation of Cytochrome P450 CYP2D6 by Butylone, a Synthetic Cathinone

Onyekachi Robert-Eze..... Class of 2023

Major(s): Pharmacy

Faculty Mentor: Dr. Joe Chambers

The Affects of Facial Coverings on Emotion Recognition

Abigail Giddens Class of 2022

Major(s): Psychology

Ricky Partanen Class of 2022

Major(s): Psychology

Faculty Mentor: Dr. Mark McCoy

The Effect of Initiating a Winning or Losing Condition on Moral Decision-Making

Sydney Newton Class of 2022

Major(s): Psychology, Psychology and Religious Culture

Faculty Mentor: Dr. Mark McCoy

The Importance and Methods of Mussel Relocation Reviewed

Diana Wilson..... Class of 2023

Major(s): Biology, Environmental Studies

Faculty Mentor: Dr. Suzanne Beyeler

Toward the Synthesis of Heteroatom-activated Antibiotics

Madeline Russow Class of 2022

Major(s): Biology-Chemistry

Faculty Mentor: Dr. Kyle Watson

Wins and Losses: Exploring the Social Winning Effect

Jeremiah Ford..... Class of 2022

Major(s): Psychology

Samuel Springer Class of 2022

Major(s): Psychology

Faculty Mentor: Dr. Mark McCoy



Keynote Speaker

Lahman Room, Jo Young Switzer Center

6 - 6:30 p.m.

The Efficacy of Variations of Carbocyclic Nucleoside Analogues Against HIV Protease

Madison Brown Class of 2022

Major(s): Biology-Chemistry

Faculty Mentor: Dr. Kyle Watson



Our sincere thanks to all the people who worked to make the 2022 Manchester University Student Research Symposium a success. Special thanks to our student conveners, faculty evaluators, faculty mentors and Sodexo catering. We recognize and appreciate your dedication to the students of Manchester University.

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Name	Location	Time
Valeria Acosta	Speicher Room	4:45 - 5:55 p.m.
Brisa Arriaga Banda	Academic Center, Room 236	4:20 - 4:40 p.m.
Brisa Arriaga Banda	Speicher Room	4:45 - 5:55 p.m.
Samuel Balemba.....	Speicher Room	4:45 - 5:55 p.m.
Kora Beasley	Academic Center, Room 149	4:20 - 4:40 p.m.
Meghan Billeck	Speicher Room	4:45 - 5:55 p.m.
Kaylee Blough	Speicher Room	4:45 - 5:55 p.m.
Victoria Blough	Speicher Room	4:45 - 5:55 p.m.
Brooke Bouwens.....	Academic Center, Room 236	4:20 - 4:40 p.m.
Brooke Bouwens.....	Speicher Room	4:45 - 5:55 p.m.
Madison Brown	Lahman Room	6 - 6:30 p.m.
Michael Carroll	Speicher Room	4:45 - 5:55 p.m.
Katie Clauser.....	Academic Center, Room 146	4:20 - 4:40 p.m.
James Corgan.....	Speicher Room	4:45 - 5:55 p.m.
Kodi Douglass	Speicher Room	4:45 - 5:55 p.m.
Madison Fielder.....	Speicher Room	4:45 - 5:55 p.m.
Jeremiah Ford.....	Speicher Room	4:45 - 5:55 p.m.
Zoe Gascho.....	Speicher Room	4:45 - 5:55 p.m.
Drew Gavit.....	Academic Center, Room 149	3:55 - 4:15 p.m.
Abigail Giddens.....	Speicher Room	4:45 - 5:55 p.m.
Allie Goins.....	Academic Center, Room 234	3:55 - 4:15 p.m.
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Isabella Gregory.....	Speicher Room	4:45 - 5:55 p.m.
Matthew Hartman.....	Speicher Room	4:45 - 5:55 p.m.
Maddie Jagger	Academic Center, Room 149	4:20 - 4:40 p.m.
Jenna Kane	Speicher Room	4:45 - 5:55 p.m.
Andrew Kreps	Academic Center, Room 149	4:20 - 4:40 p.m.
Libby Kreps	Academic Center, Room 149	4:20 - 4:40 p.m.
Breia Leavell	Academic Center, Room 146	3:55 - 4:15 p.m.
Breia Leavell	Speicher Room	4:45 - 5:55 p.m.
Rebecca Long.....	Academic Center, Room 234	3:55 - 4:15 p.m.
Rebecca Long.....	Speicher Room	4:45 - 5:55 p.m.
Caitlin McGettrick.....	Speicher Room	4:45 - 5:55 p.m.
Madalyn Miller	Academic Center, Room 149	4:20 - 4:40 p.m.
Sydney Newton	Speicher Room	4:45 - 5:55 p.m.
Brandon Nguyen.....	Speicher Room	4:45 - 5:55 p.m.

Ricky Partanen.....	Speicher Room	4:45 - 5:55 p.m.
Halle Planck	Speicher Room	4:45 - 5:55 p.m.
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Samuel Springer	Speicher Room	4:45 - 5:55 p.m.
Ilinca Timar	Speicher Room	4:45 - 5:55 p.m.
Alyssa Vasquez.....	Speicher Room	4:45 - 5:55 p.m.
Jabari Webb.....	Speicher Room	4:45 - 5:55 p.m.
Shayla Welch	Academic Center, Room 149	4:20 - 4:40 p.m.
Diana Wilson	Speicher Room	4:45 - 5:55 p.m.

Speicher and Lahman Rooms are located in the
Jo Young Switzer Center, upstairs



Manchester
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