#### Welcome to the 2025 PBHS Retreat!

Thank you for attending! This is a student-led professional event. This document contains information about the activities, events, and speakers attending. A booklet containing this information will be provided at the retreat.

<u>Parking:</u> Convenient locations for parking are highlighted on the map below. Student parking is outside the Orchard Dorm Suites (blue arrow). Speaker parking is outside the McCrary dining hall (purple arrow).

<u>Registration:</u> There will be a welcome table where you can pick up your name tag and room key in the McCrary Dining Hall, starred on the map below.

Social activities will generally take place at the fire pit (circled in red). In case of rain, social events will be moved to the dining hall.



## Friday, October 17th

12-3:00 PM	Check-in McCrary Dining Hall	
12-4:00 PM	Poster Set Up Academic Building Hall and Auditorium Room 312	
12:00 PM	Lunch McCrary Dining Hall	
2:00 PM	Icebreaker Activity  McCrary Dining Hall  Self-guided tour of the W.K. Kellogg Manor House	
Session I: Welcome  Auditorium Room 312		
4:00 PM 5:00 PM	Welcome and introduction Dr. Laura Johnson, MDARD How science is informing the future of agriculture in Michigan Meet-the-speakers: Speed networking event	
6:00 PM	Dinner McCrary Dining Hall	
7:00 PM	Poster Session Academic Building Hall and Auditorium Room 312	
8:00 PM	Evening activities Bonfire, games, etc	

# Saturday, October 18th

8:00 AM	Breakfast McCrary Dining Hall
Session 2: Translating biology at scale  Auditorium Room 312	

9:00 AM	Dr. Laura Wayne, Corteva Enhancing seed composition to feed and fuel the world Dr. Allison Schwartz, Pivot Bio Adventures in Assay Development and Operationalization: Plant-Microbe Edition	
10:35 AM	Coffee Break	
10:55 AM	Christoph Benning, MSU Crossing the academic industrial divide without going broke	
11:40 AM	Lunch McCrary Dining Hall	
12:30 PM	Social Activities Bird Sanctuary or Gourd Painting	
Session 3: Transition to/from academia and biotechnology  Auditorium Room 312		
1:45 PM	Dr. Nathan Springer, UMN/Bayer Re-imagining how new technologies will shape germplasm improvement Dr. Clair Huffine, UC Boulder Post-PhD Careers: Facing The First Day of the Rest of Your Life	
3:20 PM	Coffee Break	
Panel I: Role of government and the impact of policy in modern science  Auditorium Room 312		
3:40 PM	Panelists: Drs. Laura Johnson, Allison Schwartz, and Christoph Benning	
Session 4: Coding for crop improvement  Auditorium Room 312		

4:25 PM	Dr. Christina Del Azodi, Bayer  Becoming and Being a Data Scientist at Bayer Crop Science  Dr. Jeremy Pardo, Inari  Supporting Food System Sustainability through Technology
6:00 PM	Dinner McCrary Dining Hall
7:00 PM	Evening activity Bonfire, games, etc.

## Sunday, October 19th

7:00 AM	Writing Retreat Academic Building - Solarium; 2 <sup>nd</sup> floor	
8:00 AM	Breakfast McCrary Dining Hall	
Panel II: Bridging the gap between sectors  Auditorium Room 312		
9:00 AM	Panelists: Drs. Christina Del Azodi, Jeremy Pardo, Clair Huffine, Laura Wayne, and Nathan Springer	
9:45 AM	CV/Resume Workshop  Auditorium Room 312	
10:30 AM	Coffee Break	
Session V: Student Talks  Auditorium Room 312		
10:50 AM	Sorghum with enhanced economic traits (SWEET) consortium Combining biotechnology with sustainability: Feasibility of bioenergy sorghum in generating high-value bioproducts Rees Rillema Carboxysome component dynamics and perspective role in the carbon concentrating mechanism	

12:00 PM **Lunch** 

McCrary Dining Hall

Plant Biotechnology for Health and Sustainability

October 17-19, 2025



Laura Johnson, Ph.D Chief Science Officer at **MDARD** 



Laura Wayne, Ph.D

**Bioscience** 



Allison Schwartz, Ph.D

Gene Discovery at Corteva Senior Scientist at Pivot Bio



Cristoph Benning, Ph.D

Professor of Biochemistry and Molecular Biology at MSU



Nathan Springer, Ph.D

Head of Genetic and Genomic Innovation at Bayer



Clair Huffine, Ph.D

Science Illustrator at Insight Illustrations LLC



Christina Del Azodi, Ph.D

Senior Data Scientist at Bayer



Jeremy Pardo, Ph.D

Computational Biologist at Inari Agriculture



#### **Poster Presenters**

Angel Indibi	Characterizing Regulatory Elements for Targeted Production of Terpenoids in Sorghum
Luke Sharpe	Leveraging photosynthetic techniques to understand photorespiration's impact on S. elongatus PCC 7942
Rees Rillema	Carboxysome component dynamics and environmental responses
George Kusi- Appiah	Regulation of the CO2-Concentrating Mechanism & Implications on the Zinc Economy of Chlamydomonas
Leah Knoor	Investigating beneficial interactions between plant coumarins and the root microbiome during alkaline stress
Asia Hawkins	Identifying Early Root Traits for Improved Fusarium Root Rot Resistance in Field Grown Phaseolus vulgaris
Elliot Braun	Genetic Architecture of Flavonoid Composition in Sorghum and Maize
Kevin D. Santiago- Morales	Determining the role of microbial auxin metabolism in the Arabidopsis thaliana phosphorus starvation response"
Imani Pascoe	Examining the impact of ACC deaminase mediated modulation of ethylene in bioenergy and model plants