



September 2025

## The Spore Print (09/29/25): Department of Plant Pathology September 2025 Newsletter



Please enjoy these updates from our department for September 2025.

***Anita representing the editorial team: Mary, Nosheen, Jessica, Francely, Taylor, Mason, Arild, Sudeep, Monique, Jana, Cynthia, and Xianming.***

If you have news you would like included in the *next newsletter*, please email [anita.paneru@wsu.edu](mailto:anita.paneru@wsu.edu)

[Click here to access past newsletters!](#) You will also be able to download the PDF version there.

If you have any feedback, please fill out the [questionnaire](#) for the Spore Print.

Thank you to Ninh Khuu for providing many of the photos seen in the newsletter headings.

## Updates



### WSU Plant Pathology faculty, staff, graduate students, and postdocs attended Plant Health 2025 in Honolulu, Hawaii, in early August

Here are a few pictures from Plant Health 2025. Many thanks to **Dr. Lindsey du Toit** for sharing the photos.



1 - Dr. Scott Harper receives the APS Excellence in Regulatory Affairs and Crop Security Award at Plant Health 2025. Photo: Anita Paneru.



2 - Dr. Scott Harper receives the APS Excellence in Regulatory Affairs and Crop Security Award at Plant Health 2025. Photo: Mary Steele.



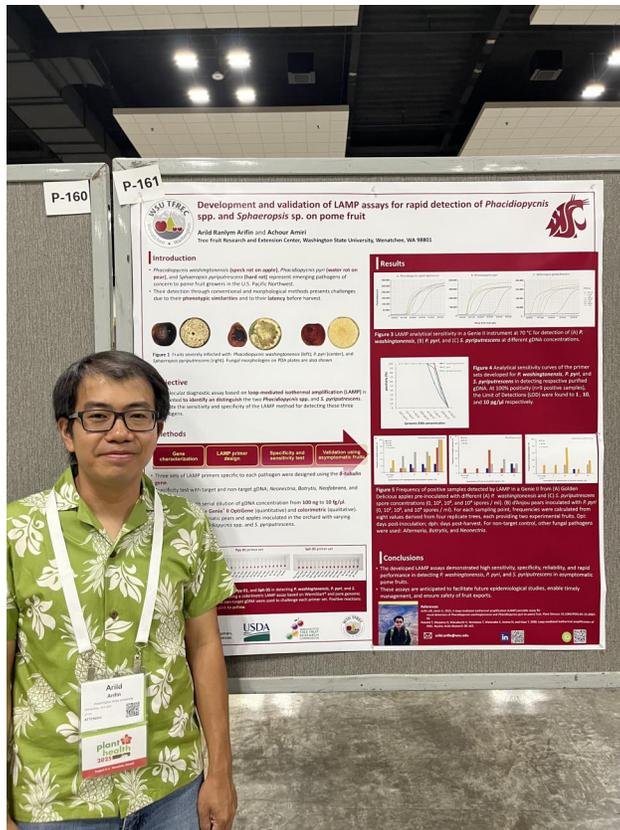
3 - Samodya Jayasinghe, a Ph.D. candidate advised by Dr. Kiwamu Tanaka, presents a talk on "Transcriptomic response of potato to *Spongiospora subterranea f.sp. subterranea* and Potato Mop Top Virus infection" for the I. E. Melhus Graduate Student Symposium. Photo: Dr. Hira Kamal.



4 - Group photo from WSU Alumni Networking Event. Photo: Dr. Lindsey du Toit.



5 - Anita Paneru attends the networking event organized by APS Foundation for travel awardees. Photo: APS website.



6 - Dr. Arild Arifin, a postdoc advised by Dr. Achour Amiri, presents a poster on "Development and validation of LAMP assays for rapid detection of *Phaciidiopycnis* spp. and *Sphaeropsis* sp. on pome fruit". Photo: Dr. Arild Arifin.

P-569



## Efficacy of pre and postharvest fungicides in controlling *Neonectria* fruit rot of pome fruit

Arild Ranlym Arifin, Clayton Haskell, Achour Amiri  
Tree Fruit Research and Extension Center, Washington State University, Wenatchee, WA 98801



### Introduction

- *Neonectria* fruit rot (NFR), caused by the fungal pathogen *Neonectria* spp. affects fruit in the U.S. and globally.
- Three species, *N. ditissima*, *N. punicea*, and *N. candida*, have been reported to cause NFR on pome fruit globally.
- Infections occur preharvest but remain latent, with symptoms typically appearing after several months of storage.

### Objective

- Assessed the efficacy of four pre-harvest and four post-harvest fungicides in reducing NFR incidence and severity.

### Methods

Two *Neonectria* isolates were used:



17-691  
obtained from

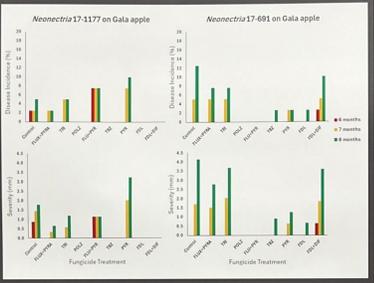


17-1177  
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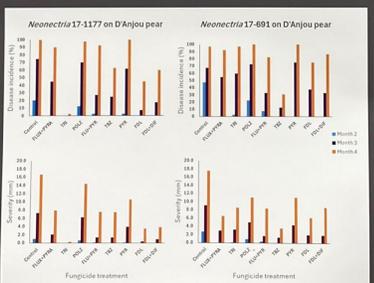
- 1-Gala apples and d'Anjou pears were surface-sterilized and washed in water and wounded. Four reps of 20 fruits were used by isolate and fungicide.
- 2-Pre-harvest fungicide treatment:
  - Triflumizole (TRI, Procure)
  - Fluopyram + pyrimethanil (FLU+PYR), Luna Sensation)
  - Fluxapyroxad + pyraclostrobin (FLUX+PYRA, Merion)
  - Polyoxin-D zinc salt (POLZ, OSO 5%SC)
- 3-Post-harvest fungicide treatment:
  - Thiabendazole (TBZ, Mertect)
  - Pyrimethanil (PR, Penobect)
  - Fludioxonil (FDL, Scholar SC)
  - Fludioxonil + difenoconazole (FDL + DIF, Academy)
- 4-Wounds inoculated with *Neonectria* spore suspensions at  $10^6$  spores/ml

Pears and apples were at 0.5°C and 1.5°C, respectively, and inspected monthly for NFR incidence and severity (lesion diameter)

### Results

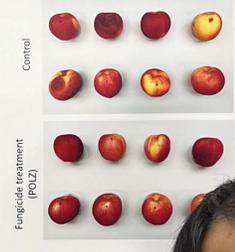


- On Gala apples, NFR incidence ranged between 2 and 12% between 6 and 8 months in the control.
- FDL, FDL+DIF, POLZ, and FLU+PYR were the most effective after 8 months, with some differences observed between the two isolates.

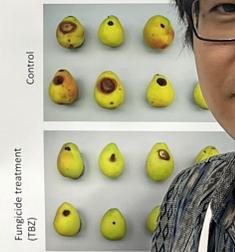


- *Neonectria* isolates were more virulent on d'Anjou pears than on Gala apples.
- NFR incidence was >90% in the control after four months at 0.5°C.
- TBZ and FDL were the most effective among the fungicides tested in reducing NFR to 38-57% and 42-75%, respectively.
- By five months, the efficacy declined significantly with only TBZ providing 20 to 50% reduction in NFR incidence.

- Gala apples inoculated with *Neonectria* isolate 17-691 after 8 months at 1.5°C



- d'Anjou pears inoculated with *Neonectria* isolate 17-691 after 5 months at 0.5°C



### Conclusions and Further

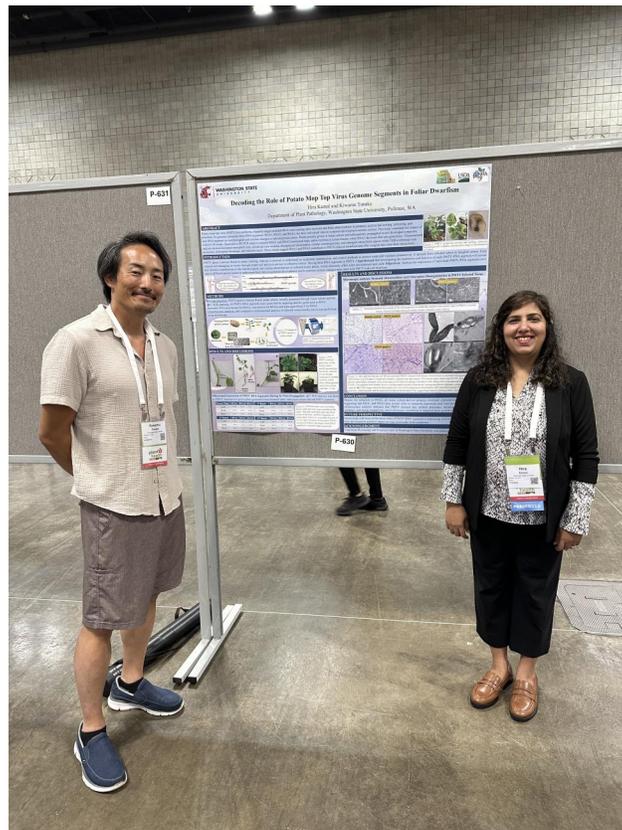
- Preliminary results show that TBZ was more virulent on pears than apples.
- Most pre and postharvest fungicides were ineffective in controlling NFR on wounded pears, but efficacy on apples was variable.
- Further investigation is needed on different isolates and fungicides on non-pome fruits.

### Acknowledgments

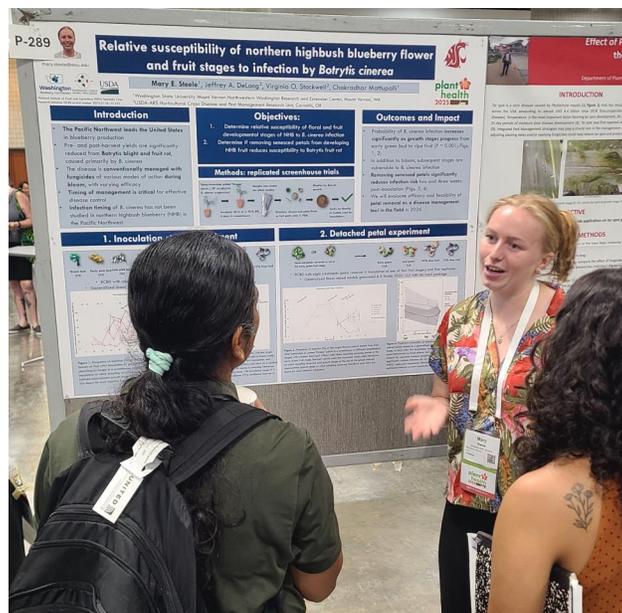
Washington State University College of Agricultural and Natural Resources



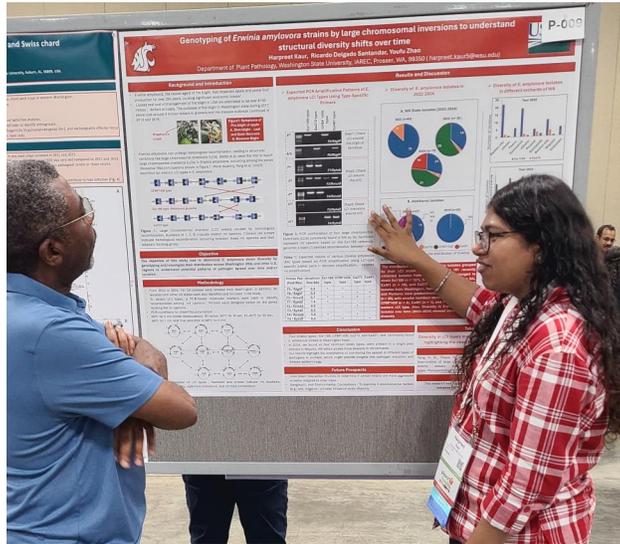
7 - Dr. Arild Arifin, a postdoc advised by Dr. Achour Amiri, presents his poster titled "Efficacy of pre and postharvest fungicides in controlling *Neonectria* fruit rot of pome fruit". Photo: Dr. Arild Arifin.



8 - Dr. Hira Kamal, a postdoc advised by Dr. Kiwamu Tanaka, presents her poster on "Spatial dynamics of host defense responses during *Sclerotinia sclerotiorum* infection in canola". Photo: Dr. Hira Kamal.



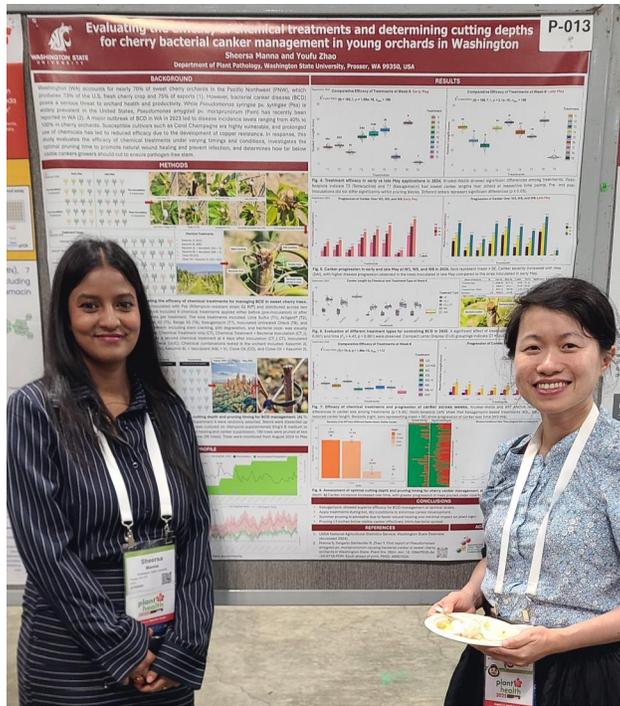
9 - Mary Steele, a Ph.D. candidate co-advised by Dr. Chakradhar Mattupalli and Dr. Lindsey du Toit, presents a poster titled "Relative susceptibility of northern highbush blueberry flower and fruit stages to infection by *Botrytis cinerea*". Photo: Dr. Lindsey du Toit.



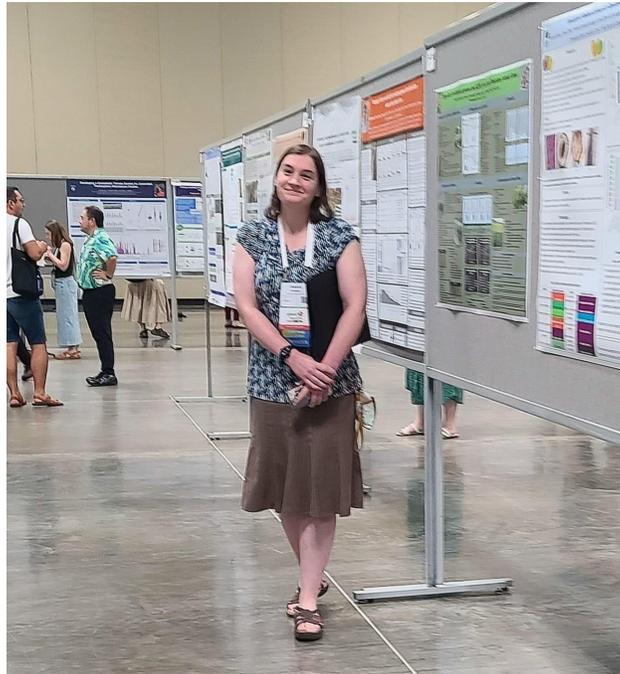
10 - Harpreet Kaur, a Ph.D. student advised by Dr. Youfu Zhao, presents a poster titled "Genotyping of *Erwinia amylovora* strains by large chromosomal inversions to understand structural diversity shifts over time or location". Photo: Dr. Lindsey du Toit.



11 - Anita Paneru, a Ph.D. candidate advised by Dr. Maren Friesen, presents a poster on "Electrochemically active soil biofilms respond to simulated root exudates". Photo: Dr. Lindsey du Toit.



12 - Sheersa Manna, a Ph.D. candidate advised by Dr. Youfu Zhao, presents a poster titled "Evaluating the efficacy of chemical treatments and determining cutting depths for cherry bacterial canker management in young orchards in Washington". Photo: Dr. Lindsey du Toit.



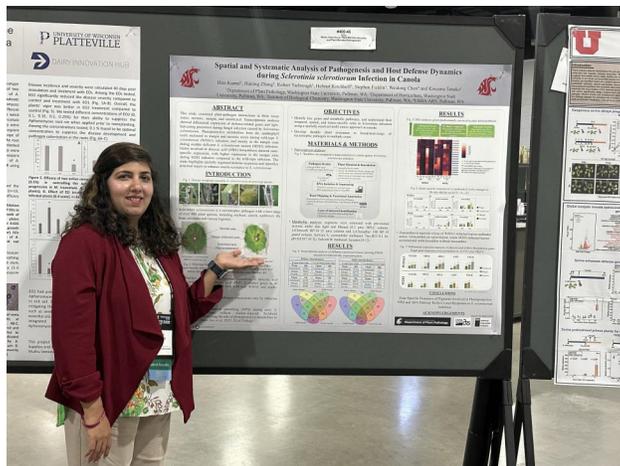
13 - Jessica Schallon, a Ph.D. student advised by Dr. Weidong Chen, presents her poster on "Stripe Rust resistance genes and QTL from two Pakistani wheat lines". Photo: Jessica Schallon.



14 - Mason Hoskins, a master's student advised by Dr. Scott Harper, presents a poster on "Beyond the grove: Unveiling the ecology and diversity of X-disease, 'Candidatus Phytoplasma pruni', strains in extra-orchard environments". Photo: Dr. Lindsey du Toit.

## Plant Biology 2025

**Dr. Hira Kamal** and **Dr. Marcella Teixeira** represented our department at the *Plant Biology Meeting 2025*, held in Milwaukee, Wisconsin. Dr. Kamal received a travel grant from the American Society of Plant Biologists (ASPB) to attend the conference and presented research findings from the *Sclerotinia sclerotiorum* project. Dr. Teixeira serves on the editorial board of an ASPB journal and participated in the meeting as an invited attendee.



15 - Dr. Hira Kamal, a postdoc in Dr. Kiwamu Tanaka's lab, presents her work at the Plant Biology Meeting 2025 on "Spatial dynamics of Host Defense Responses during Sclerotinia sclerotiorum infection in canola". Photo Source: Hira Kamal.



16 - Dr. Hira Kamal, a postdoc in Dr. Kiwamu Tanaka's lab, and Dr. Marcella Teixeira, a postdoc in Dr. Cynthia Gleason's lab, attended the Plant Biology Meeting 2025. Photo Source: Hira Kamal.

## Annual SON Meeting 2025

Itsuhiro Ko, a Ph.D. candidate from Dr. Cynthia Gleason's lab, received a Certis Travel Award at the **Annual Meeting of the Society of Nematologists**, held July 13–17 in Victoria, Canada. He also earned **second place** in the **student speaker competition**. Both Ko and Dr. Gleason took part in the Society's annual **Cobb Bowl** quiz, competing with energy and good spirit.

Congratulations to Ko and Dr. Gleason!

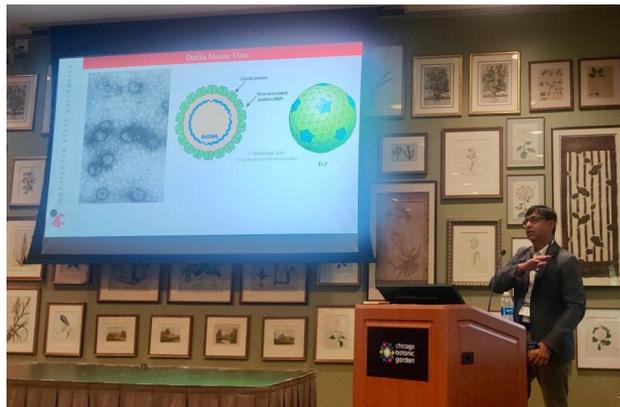


17 - Itsuhiro Ko, a Ph.D. candidate, and Dr. Cynthia Gleason at the annual SON meeting 2025. Photo: Dr. Cynthia Gleason.

### 2025 National Meeting of the American Dahlia Society

Dr. Hanu Pappu and Dr. Prabu Gnanasekaran attended the **2025 National Meeting of the American Dahlia Society**, held from September 18 to 22 at the Chicago Botanic Garden. They presented updates on ongoing research focused on dahlia viruses and their management.

The Carl F. and James J. Chuey Endowment and the American Dahlia Society support Dahlia virus research in the Pappu lab.



18 - Dr. Hanu Pappu presenting at the 2025 National Meeting of the American Dahlia Society. Photo: Dr. Hanu Pappu



19 - Dr. Prabu Gnanasekaran presenting at the 2025 National Meeting of the American Dahlia Society. Photo: Dr. Hanu Pappu

## WERA-20 Meeting

Five former students of our department, now leading virus certification programs at universities as well as state and federal agencies across the USA and Canada, were recently brought together at the annual meeting of the multistate project **WERA-20 Management of Diseases Caused by Systemic Pathogens in Temperate and Sub-tropical Fruit Crops and Woody Ornamentals**. The meeting took place on September 8–10, 2025, in Raleigh/Durham, NC.

The photo below was taken by Dr. Cristian Olaya. The meeting was attended by **Dr. Naidu Rayapati**, Administrative Advisor of the WERA-20 project.

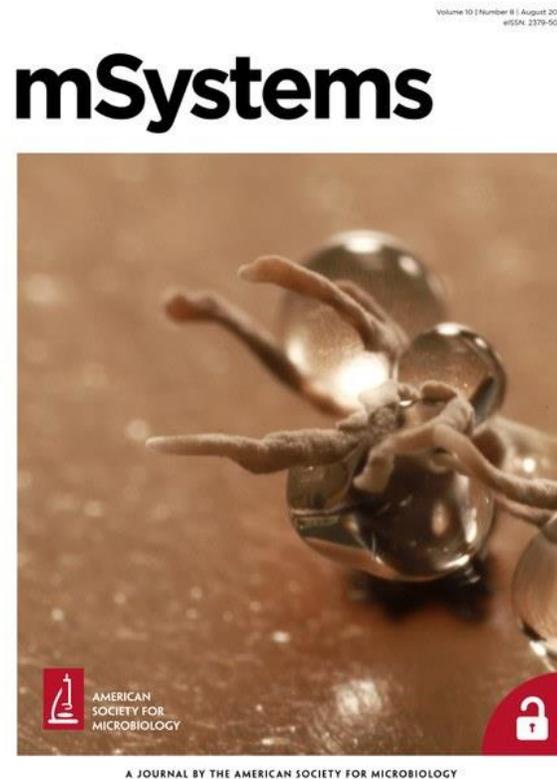


20 - From left to right: Dr. Cristian Olaya, Oregon State University (PhD with Dr. Hanu Pappu), Dr. Noma Chingandu, Canadian Food Inspection Agency (MS with Dr. Hanu Pappu), Dr. Christie Almeyda, NC State University (PhD with Dr. Hanu Pappu), Dr. Dan Villamor, University of Arkansas (PhD with Dr. Ken Eastwell), Dr. Segun Akinbade, WSDA (PhD with Dr. Ken Eastwell)

## mSystems Cover

The picture from **Dr. Jana U'Ren's lab** is featured on the **mSystems cover**. The image includes the magnified view of hyphae, reproductive structures (stromata), and exudates of a bioactive *Xylaria* endophyte on solid medium.

Congratulations, Dr. U'Ren and the team.



21 - Magnified view of hyphae, reproductive structures (stromata), and exudates of a bioactive *Xylaria* endophyte on solid medium. (Photo courtesy of Jana M. U'Ren, Washington State University, Pullman, WA.) (See related article in July 2025, vol. 10, e00468-25.) (Copyright © 2025 Franco et al. CC-BY 4.0.)

## Defense and preliminary exam updates

**Mary Steele** successfully passed her **PhD preliminary examination** on August 19th. Her committee comprises Dr. Chakradhar Mattupalli (chair), Dr. Lindsey du Toit (co-chair), Dr. Jana U'Ren, and Dr. Tim Paulitz. Mary is working on developing molecular tools to identify fungicide resistance in *Botrytis cinerea* in blueberry production in western Washington, as well as identifying key stages of susceptibility of blueberry flowers and fruit to infection by this pathogen. We congratulate Mary and wish her continued success as she progresses in her doctoral studies.

## PPGSO bioinformatic consultations available by appointment

To better organize the PLP Bioinformatic Consultation Table, we decided to cancel our meeting hours on Thursday. Instead, we are open by appointment (15min - 30min, via Zoom or in person). Please provide the time you want to meet and your bioinformatic questions to the consultants below.

Ko <[itsuhiro.ko@wsu.edu](mailto:itsuhiro.ko@wsu.edu)> : Kamiak HPC, Transcriptome and Genome analysis, Sequencing, Python/Linux coding

Megan <[megan.nickerson@wsu.edu](mailto:megan.nickerson@wsu.edu)> : R coding: Statistics and data visualization

Mason <[mason.hoskins@wsu.edu](mailto:mason.hoskins@wsu.edu)> : Kamiak HPC, Gene co-expression network, Transcriptome (Mason is willing to provide help in person at the Prosser IAREC)

## Research Associate Spotlight: Dr. Michael Ian Gordon



22 - Dr. Michael Ian Gordon



23 - Michael planting a sweet corn cold tolerance trial near Quincy, WA, in early April of 2025.

**Position/Title:** Scientific Assistant Senior

**Advisor:** Dr. Lindsey du Toit

**Academic Background:**

**Ph.D.** Oregon State University – Molecular and Cellular  
Biology 2024

**B.S.** Oregon State University – Bioresource  
Research 2015

**B.S.** Northern Arizona University – Parks & Recreation  
Management. 2006

**Hometown:** Naperville, IL

**What made you interested in plant pathology/ microbiology?**

A student job at the OSU Plant Clinic molecular lab introduced and exposed me to the field of plant pathology and its importance in supporting agriculture.

**What is your favorite plant pathogen?**

I don't have a favorite plant pathogen, but I always enjoy learning about new pathogens and marveling at the clever ways in which they do their thing.

**Hobbies:** Playing old-time mandolin and fiddle

**Pets:** No pets

**What is the most rewarding part of your job?**

The best part of the job is getting to be part of the NWREC community and to work within a talented team to execute high-quality research trials that are immediately useful to growers in Washington and beyond.

## Community Corner



UPCOMING EVENT: Screening of the film "**Picture a Scientist**"

DATE: **Friday, October 17th, 2025**

TIME: **3–5 pm**

PULLMAN LOCATION: **VBRB. 305**

REC LOCATION: If you are at an extension center or attending remotely please reach out to [mason.hoskins@wsu.edu](mailto:mason.hoskins@wsu.edu) to obtain the room location or the Zoom link for the event.

RSVP NEEDED: **Yes, see below!**

The film event is being hosted by the WSU Dept. of Plant Pathology Community Resource Committee, with support from CAHNRS and the Dept. of Horticulture. It is open to all **WSU students, faculty, staff, as well as community members.**

An official selection of the 2020 Tribeca Film Festival, the documentary film, PICTURE A SCIENTIST, follows the experiences of renowned MIT molecular biologist Nancy Hopkins (member of the National Academy of Sciences), analytical chemist Raychelle

Burks (Provost Associate Professor, American University), and geologist Jane Willenbring (Associate Professor, Stanford University)

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**PLANT PATHOLOGY  
COMMUNITY RESOURCES COMMITTEE**

**Volunteers  
Needed**

**Help us build and foster  
community in our  
department!**

**Looking for +2 more graduate or  
postdoc volunteers**

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**Contact Dr. Jana U'Ren if interested**

*24 - CRC Volunteers Needed – Join us in supporting our community!*

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*Plant Pathology Community Resources Committee*

## *Volunteers Needed*

*Help us build and foster community in our department!*

*We are looking for **two additional graduate students or postdoctoral volunteers.***

*If you are interested, please contact **Dr. Jana U'Ren.***

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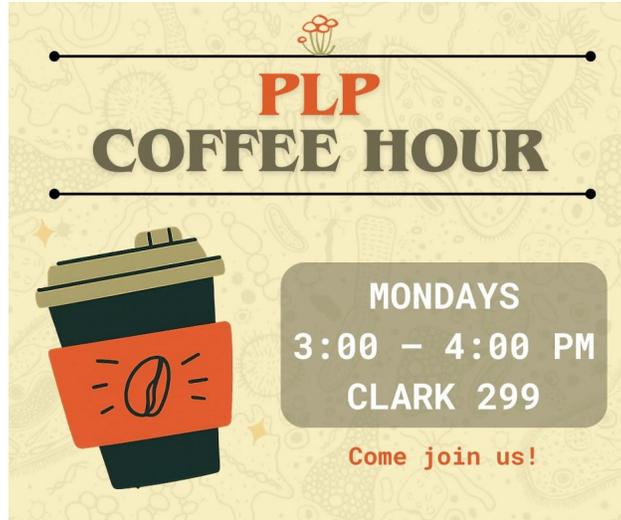
## Statewide Updates



## Pullman Updates

Join us for our weekly departmental coffee hour, held every Monday from 3:00 - 4:00 pm in Clark 299, right before the seminar.

A big thank-you to all the students who helped host this event!



25 - PLP coffee hour flyer. Photo: Francely Flores

The annual **Welcome Back Potluck**, put on by the Fun Committee in collaboration with the PPGSO, was held at Sunnyside Park on Sunday, September 7. The picnic was well-attended by about 30 department members and friends/family. Good food and conversation was enjoyed by all. Thank you to Dr. Tanaka for grilling!



26 - Jessica, Dr. Paulitz, Nancy, Ko, and Huiting dig in to the buffet. Photo: Hongyan Sheng.



27 - Oleksandra, Francely, Dr. Tanaka, Dr. Gleason, and Anthony enjoy lunch. Photo: Mary Steele.

Kudos to the **PPGSO** for hosting a successful booth at the **CAHNRS Fall Festival 2025** on September 4th from 4–6 pm on behalf of the department. Thank you to all students who volunteered their time to share with undergraduate students what the department is about: Megan, Anita, Francely, Nosheen, and Kristen.



28 - Megan Nickerson and Kristen Bullough at the PPGSO table during the CAHNRS Fall Festival, 2025. Photo: Francely Flores.



29 - Nosheen Fatima and Anita Paneru at the PPGSO table during the CAHNRS Fall Festival, 2025. Photo: Francely Flores.



30 - Anita Paneru demonstrating fungal samples during the CAHNRS Fall Festival, 2025. Photo: Seth Truscott

On Friday, August 29th at 11:30 a.m., PPGSO organized the **Annual Lab Crawl**, where Nosheen, Anita, Megan, and Jessica facilitated tours of Vogel, the Plant Science Building, and Clark Hall to help new students get familiar with Plant Pathology faculty and their labs.

A total of four new students attended the event.



31 - Monique Slipper explaining the herbarium specimens to students. Photo: Nosheen Fatima



32 - Dr. Hanu Pappu giving new students tour of Plant Virology lab in Vogel. Photo: Nosheen Fatima



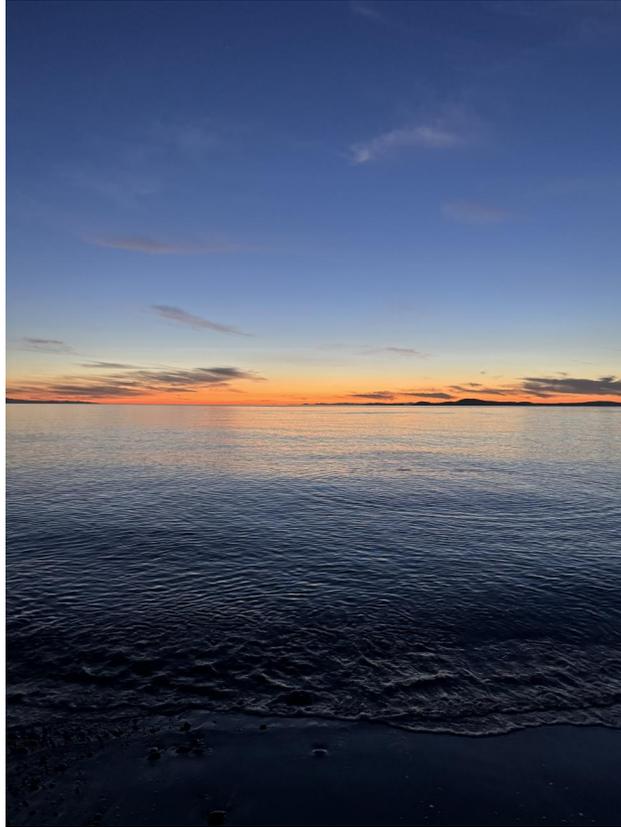
33 - Cassandra Bates introducing students to the Plant Diagnostic Lab in Clark Hall. Photo: Nosheen Fatima

## Mount Vernon Updates

Mary Steele organized a camping trip for graduate students based at the Mount Vernon NWREC at Deception Pass State Park on Friday, September 19. Students from the Departments of Plant Pathology, Horticulture, Entomology, and Crop and Soil Sciences joined and enjoyed a short trip into nature!



34 - NWREC graduate students from different departments enjoy breakfast together. Photo: Mary Steele.

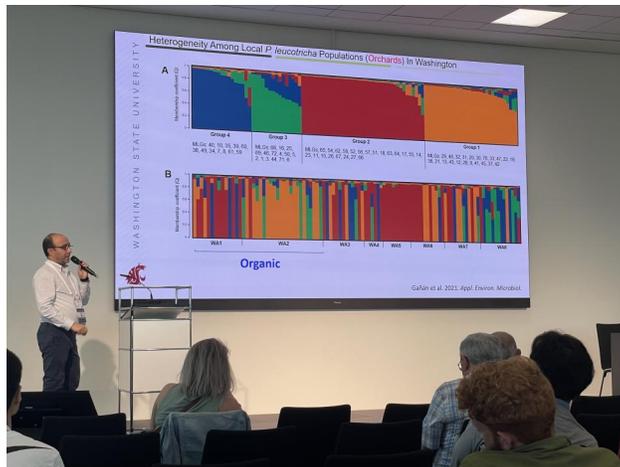


35 - Students enjoyed the sunset over the west beach at Deception Pass State Park. Photo: McKenzie Shelton.

### Wenatchee Updates

Dr. Achour Amiri presented his research at the **2025 International Society for Molecular Plant-Microbe Interactions (IS-MPMI) meeting** in Cologne, Germany, from 13-17 July. His talk was focused on the "Population structure and fungicide sensitivity of *Podosphaera leucotricha* in U.S. apple orchards".

He was also invited by Oregon State University's Plant Pathology program to give a talk on "Reduce Postharvest diseases of pears: From orchard to packaging". In addition, Dr. Amiri met with growers in Okanogan and Chelan during grower meetings and field days, where he shared best practices for reducing storage decay and improving fruit quality.



36 - Dr. Achour Amiri presents his work on "Population structure and fungicide sensitivity of *Podosphaera leucotricha* in U.S. apple orchards" at the 2025 IS-MPMI. Photo: Dr. Achour Amiri.

## Prosser Updates

As the fall semester began, the Prosser Graduate Student Association (PGSA) hosted its first monthly meeting on Friday, August 22, at the Rose Garden building. Our small but vibrant group of graduate students at the Rec Station meets monthly to stay connected, discuss upcoming PGSA events, reflect on past activities, and, most importantly, explore ways to bring students, staff, and faculty in Prosser closer together.



37 - First monthly meeting of Prosser Graduate Student Association (PGSA)

An event co-hosted by PGSA and IAREC: On September 5th, the IAREC community gathered for a Fall Kickoff Lunch, designed to build community, welcome everyone back for the season, and create space for connection and networking outside of our usual workspaces.



38 - Fall Kickoff Lunch organized by PGSA and IAREC

### GPSA Updates

A proposal was introduced to create a **Special Committee** for fundraising and student support initiatives, including dissertation grants and a statewide research symposium. The proposal was **not approved** due to bylaw violations, confusion over compensation, and lack of clarity in structure and responsibilities.

## Herbarium Happenings: Shaw Mycological Herbarium



### **STUDENTS TRAVEL 6000 MILES TO TOUR SHAW HERBARIUM!**

The Shaw Herbarium hosted our biggest tour group ever on July 21st, when about 65 young Okinawan students, chaperones and counselors enjoyed a hands-on tour of the fungi collections. The 13-18 year-olds came to the Palouse with the Developing Okinawa Through English (DOTE) immersive summer camp hosted annually by WSU for 3 weeks in July, which sponsors them to study English at WSU's College of Education. One of the organizers, Tristan Loria, had visited the Shaw earlier this spring, and arranged with Monique Slipher for the group to visit the Herbarium as part of experiences planned to augment their English language education (they also visited the MT James Entomological Collection nearby in the FSHN building).

As each group of a dozen or more rotated through to learn about our fungi collections, they examined the mushrooms on display, including a few collected in southern Japan, not far from their homeland. Many were particularly impressed by the age of some specimens (100-150 years old), and the size, weight, and textures of our charismatic mega-polypores (large wood decay fruiting bodies). A few youngsters were brave enough to handle the weirdest-looking

fungi or practice their English with good questions about the biology or edibility of certain fungi  
- perhaps future biologists/mycologists in the making!

(Photo credits: Megan Pyle, Shaw Herbarium assistant)



39 - Young Okinawan students, their counselors & chaperones tour the Shaw Herbarium in small groups. Photo: Megan Pyle.



40 - Several young Okinawan students test the weight of a very large polypore fungus fruiting body or "conk". Photo: Megan Pyle.



41 - Okinawan students tour group learns about how fungi in the Shaw Herbarium are organized. Photo: Megan Pyle.



42 - Okinawan students examine tiny slime molds in boxes through a hand lens. Photo: Megan Pyle.

## Publications



**Eaker, A., Rowe, S., and Friesen, M.** 2025. Antagonism within mutualism: Host control of symbionts through nodule-specific antimicrobial peptides. *Frontiers in Microbiology*, 16, 1622262. <https://doi.org/10.3389/fmicb.2025.1622262>

**Harper, S. J.**, Pitino, M., Walker III, W. B., Easterling, K. A., Marshall, A. T., Cowell, S. J., and Cooper, W. R. 2025. Differences in 'Candidatus *Phytoplasma pruni*' gene expression when infecting sweet cherry versus leafhoppers. *PhytoFrontiers*. <https://doi.org/10.1094/PHYTOFR-06-25-0062-R>

Mellow, J. K., **Arifin, A. R.**, and **Amiri, A.** 2025. Morpho-phylogenic characterization of *Neonectria candida* as a causal agent of a postharvest rot of pome fruit in the US Pacific Northwest. *Frontiers in Plant Science*, 16, 1661560. <https://doi.org/10.3389/fpls.2025.1661560>

Reyes-Proañño, E., Griffin, A. M., **Duarte, A.**, Sheng, H., Schroeder, B. K., **Murray, T. D.**, and Karasev, A. V. 2025. Afrina barna-like virus, a novel virus associated with *Afrina sporoboliae*, the drop seed gall-forming nematode. *Viruses* 2025, 17, 1032. <https://doi.org/10.3390/v17081032>

Shi, Y., Bao, X., Li, H., Li, Y., **Chen, X.**, and Hu, X. 2025. Wheat small GTPase gene TaRABH1bL is involved in high-temperature all-stage resistance to *Puccinia striiformis* f. sp. *tritici*. *Molecular Plant Pathology*, 26(8), e70132. <https://doi.org/10.1111/mpp.70132>

Zhu, J., Cai, L., Wang, Y., Liu, X., Wang, J., Tian, Y., Hu, B., and **Zhao, Y.** 2025. Evaluation of the new antimicrobial benziothiazolinone for management of fire blight disease of pear. *BMC Microbiology* 25: 540. <https://doi.org/10.1186/s12866-025-04238-3>

*Please let us know if we missed your publication so we can include it next month.*

# Funding and Opportunities



- Are you ready to transform your research into real-world solutions? The **Office of Commercialization** is excited to announce that the **Postdoctoral Entrepreneurship Program (PEP)** will begin accepting applications on September 1st! The program offers mentorship, programming, and resources tailored to helping postdoctoral researchers translate their work from the lab to commercial markets. More information can be found [here](#).

## Seminars



**Dr. Chakradhar Mattupalli is leading the seminar series in Fall 2025.** The seminars are scheduled every Monday from 4:10 to 5 pm.

Thank you, Dr. Mattupalli, for providing the seminar schedule for the fall semester.

List of PL\_P 515 speakers for Fall 2025 semester

Day	Speaker	Affiliation
Aug 18	Student Orientation (No seminar)	NA
Aug 25	Dr. Kiwamu Tanaka	Washington State University
Sep 1	Labor Day (HOLIDAY)	NA
Sep 8	Nosheen Fatima	Washington State University
Sep 15	Taylor McNees	Washington State University
Sep 22	Dr. Amy Charkowski	Colorado State University
Sep 29	Dr. Erick De Wolf (Student invited speaker)	Kansas State University
Oct 6	Harpreet Kaur	Washington State University
Oct 13	Kristen Bullough – Exit seminar	Washington State University
Oct 20	Mason Hoskins – Exit seminar	Washington State University
Oct 27	Dr. Ken Frost	Oregon State University
Nov 3	Mary Steele	Washington State University
Nov 10	Dr. Carolee Bull	The Pennsylvania State University
Nov 17	Dr. Tim Paulitz	USDA-ARS/Washington State University
Nov 24	Thanksgiving Break (HOLIDAY)	NA
Dec 1	Dr. Shawna Rowe	Washington State University

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## Jobs



## Postdoctoral Positions

- The **University of Tasmania, Australia**, is hiring a postdoc to work on soil-borne potato disease management. The application can be found [here](#).

#### **Technician, Industry, and Other Non-Academic Positions**

- The **University of Wyoming** is hiring a research scientist assistant to work on diversified crop species in a rural setting. More details [here](#).

#### **Faculty Positions**

- The **Colorado State University** is hiring an assistant professor to work on plant-microbe interactions. More information can be found [here](#).
- The **University of Georgia** is hiring an assistant professor to work on fungal biology/mycology. More details can be found [here](#).
- The **University of Idaho** is hiring an assistant, associate, or full professor with tenure track or tenured status to serve as the Saad Hafez presidential endowed chair for the Department of Entomology, Plant Pathology, and Nematology. The application can be found [here](#).