

CPS • SCP News



CANADIAN PHYTOPATHOLOGICAL SOCIETY • SOCIÉTÉ CANADIENNE DE PHYTOPATHOLOGIE

VOL. 68, NO. 4

<http://phytopath.ca>

December 2024

Message from the Executive Board of the CPS

As another busy year comes to a close, we hope that all of you can reflect on a successful 2024 filled with interesting discoveries and new collaborations, despite the obstacles and challenges that many of you may have faced in your personal or professional lives. As our climate continues to change, many of us across the country faced difficult circumstances: beginning with record cold in western and central Canada, which caused severe damage to fruit and berry plants, to terrifying and devastating wildfires and extreme rainfall and flooding in many parts of the country, we humans, our infrastructure, and our food systems were under unprecedented strain throughout the year.

These challenges made the theme of the 2024 Plant Canada 2024 conference, "Plants: Adapting to a Changing World," especially resonant. With about 200 oral presentations and 150 posters, we hope that many of you had the opportunity to attend this multidisciplinary meeting and to meet with both new and familiar friends and colleagues from the plant research community.

Inside this issue:

Message from the Executive Board of the CPS	95
Message du conseil d'administration de la SCP	97
Society Business	
Call for Nominations: Board and Standing Committees	99
Call for CPS Award Nominations	100
Meetings	
Joint meeting of the CPS and ICRPMC	101
Plants 2025: From Seeds to Food Security	102
Report: CPS Eastern Ontario Regional Meeting	103
Report: CPS Atlantic Regional Meeting	104
Report: CPS BC Regional Meeting	106
People	
Congratulations to Yixiao (Becky) Wang!	108
Congratulations to Zhiyu (Fisher) Yu!	109
Young Scientists' Corner	110
Publications	
ISPP	111
ESC	112
Contact the Editors	114

Planning is well underway for the next annual meeting of the CPS. As many of you may have heard, the CPS will be hosting a joint meeting with the International Cereal Rust and Powdery Mildew Conference at the University of British Columbia campus in beautiful Vancouver, BC from June 15 to 20, 2025. Registration will open early in the new year, so stay tuned to your email and to the

CPS website to catch your opportunity to register at the early-bird rate!

In addition to our annual meetings, many CPS members volunteered their time and expertise to

organize and attend regional meetings that have been held throughout the fall. Reports from the Atlantic, the Eastern Ontario, and the BC region are included in this edition of the News. Regional meetings were also held in Alberta (with the Plant Pathological Society of Alberta), Saskatchewan, and Southern Ontario. These regional meetings are an ideal occasion to connect and to share research updates and build collaborations for students, post-docs, research assistants, and researchers alike, often in a slightly more laid-back environment than an annual meeting. If you would like to connect with other plant pathologists in your region, consider reaching out to your regional representative. A list of the regional representatives and their contact details can be found on the [CPS Website](#).

Our society continues to flourish thanks to the countless hours of time that our members dedicate to organizing meetings and events, serving on committees, the executive board, and taking the time to stay up-to-date with our society's activities by reading the updates shared by our membership secretary, website editor, and newsletter editors. If you would like to

become more involved with the CPS, please find in this newsletter a report from the CPS Nomination committee, where you can learn more about upcoming vacancies on

committees and on the executive board. The outstanding contributions of our members are also recognized through various awards offered by the CPS. Please consider nominating a deserving colleague, or even yourself, for one of these awards. As we bid farewell to 2024 and look ahead to the plans and opportunities of 2025, we hope that all of you find time to relax, reflect and recharge in the company of your friends and family. We wish you all the very best for 2025!

Warmest regards,
The Executive Board of the CPS

“Our society continues to flourish thanks to the countless hours of time that our members dedicate to organizing meetings and events, serving on committees, the executive board, and taking the time to stay up-to-date with our society’s activities by reading the updates shared by our membership secretary, website editor, and newsletter editors.”



Message du conseil d'administration de la SCP

En cette année bien remplie qui s'achève, nous espérons que vous tous pourrez vous réjouir d'une année 2024 réussie, riche en découvertes intéressantes et en nouvelles collaborations malgré les obstacles et les défis que plusieurs d'entre vous ont pu avoir à surmonter personnellement ou professionnellement. Alors que notre climat continue de changer, nous sommes plusieurs au pays qui avons dû affronter des situations difficiles, à commencer par des températures froides record dans l'ouest et le centre du Canada qui ont causé d'importants dommages aux arbres et aux arbustes fruitiers, jusqu'à des incendies de forêt terrifiants et destructeurs ainsi qu'à des précipitations et des inondations extrêmes dans plusieurs régions du pays. Quant à nous, humains, à nos infrastructures et à nos systèmes alimentaires, nous avons été soumis à une pression sans précédent tout au long de l'année.

À cause de ces défis, le thème de la conférence de Plant Canada de 2024, « Les végétaux : adaptation à un monde en changement », a trouvé un écho pour le moins retentissant. Avec environ 200 présentations orales et 150 affiches, nous

espérons que vous êtes nombreux à avoir profité de cette réunion multidisciplinaire et pour revoir amis et collègues ainsi que pour nouer de nouveaux contacts avec d'autres membres de la communauté de la recherche sur les végétaux.

La planification de la prochaine réunion de la SCP va bon train. Comme plusieurs d'entre vous le savent déjà, la Société accueillera, du 15 au 20 juin, à l'Université de la Colombie-Britannique, dans la merveilleuse ville de Vancouver, une réunion conjointe avec le Congrès international sur la rouille des céréales et l'oïdium. Vous pourrez vous y inscrire tôt au cours de la nouvelle année, alors ne

manquez pas de lire vos courriels et de consulter le site Web de la SCP afin de profiter du tarif préférentiel!

En plus de nos réunions annuelles, plusieurs membres de la SCP ont donné de leur temps

et partagé leur expertise pour organiser les réunions régionales qui ont été tenues durant tout l'automne, et pour y assister. Des rapports provenant des régions de l'Atlantique, de l'est de l'Ontario et de la Colombie-Britannique sont publiés dans ce

«Notre société continue à prospérer grâce aux heures innombrables que nos membres consacrent à l'organisation de réunions et d'événements, à siéger à des comités ainsi qu'au conseil d'administration et à prendre le temps de se maintenir informés sur les activités de notre société en lisant les mises à jour partagées par notre secrétaire aux adhésions, le rédacteur du site Web et les rédacteurs du bulletin.»

numéro du bulletin. Des réunions ont également été tenues en Alberta (avec la Société albertaine de phytopathologie), en Saskatchewan et dans le sud de l'Ontario. Ces réunions régionales sont une occasion unique pour les étudiants, les postdoctorants, les assistants de recherche et même les chercheurs d'entrer en contact avec des collègues, de partager les mises à jour sur les recherches et d'établir des collaborations, et ce, souvent dans un contexte un peu plus décontracté que celui d'une réunion annuelle. Si vous souhaitez entrer en contact avec d'autres phytopathologistes de votre région, considérez communiquer avec votre représentant régional. Une liste des représentants ainsi que de leurs coordonnées est publiée sur [le site Web de la SCP](#).

Notre société continue à prospérer grâce aux heures innombrables que nos membres consacrent à l'organisation de réunions et d'événements, à siéger à des comités ainsi qu'au conseil d'administration et à prendre le temps de se maintenir informés sur les

activités de notre société en lisant les mises à jour partagées par notre secrétaire aux adhésions, le rédacteur du site Web et les rédacteurs du bulletin. Si vous désirez vous impliquer davantage dans la SCP, s'il vous plaît, lisez dans ce bulletin le rapport du Comité des candidatures dans lequel vous en apprendrez plus sur les prochains postes des comités et du conseil à combler. Les contributions exceptionnelles de nos membres sont également reconnues grâce à divers prix décernés par la SCP. S'il vous plaît, considérez soumettre la candidature d'un collègue méritant, ou même la vôtre, pour un de ces prix.

Comme nous disons adieu à 2024 et que nous envisageons les plans et les possibilités pour 2025, nous espérons que vous trouverez le temps de vous détendre, de réfléchir et de vous ressourcer en compagnie de vos amis et des membres de vos familles. Nous vous souhaitons tout ce qu'il y a de mieux pour 2025!

Chaleureuses salutations,
Le conseil d'administration de la SCP



Society Business

Call for Nominations: New CPS Board and Standing Committee Members

Vacancies for the Board of Directors:

- Vice President
- Secretary
- Membership Secretary
- Junior Director

Vacancies for Members of Standing Committees

- Awards Committee (1)
- Nominating Committee (1)

According to our By-Laws, each nomination must have the consent of the nominee, and all nominations must be endorsed by at least five CPS members, including the nominee. Please consider to nominate your colleagues for any for these positions and gather the required signatures for the nomination letter.

The duties associated with these positions can be found in the By-laws online at <https://phytopath.ca/about-cps/bylaws/>. **All nominations must be received by February 1st, 2025.** Please email your nomination to Gary Peng (gary.peng@agr.gc.ca), Chair of the Nominating Committee, or Tom Fetch (tomfetchjr@outlook.com), CPS Secretary, on or before the deadline.

If you have any questions, please feel free to contact me via email.

Respectively submitted by Gary Peng
Chair of the Nominating Committee (2024-2025)



Call for Nominations: CPS Awards

CPS Members: Nominate a deserving colleague for a CPS Award

Students: Apply for CPS Scholarships and Student Travel Awards

The Canadian Phytopathological Society is proud to recognize achievements of its members. Please consider nominating a colleague for one of the CPS Awards listed below:

- Honorary Member
- Fellow
- Outstanding Research
- Outstanding Young Scientist
- CPS Education Award
- Achievements in Plant Disease Management
- Career Recognition Award

Full descriptions of each category are posted on the CPS web site at <https://phytopath.ca/about-cps/cps-awards/>. For each application, please combine materials into a single file (except for references for student awards) and send to the CPS Awards Committee at cps.awards@gmail.com.

We also encourage graduate students to apply for CPS Student Awards

Graduate Student Scholarships (three awards at \$1500 each).

Graduate Student Travel Awards (three awards at \$1000 each).

The deadline for submission of all applications is March 31, 2025.

Send nominations and applications to the CPS Awards Committee at cps.awards@gmail.com. Please combine all materials into a single file for each application, and use the last name of the nominee (or applicant if for student award) to start the filename including target award name. For Best Student Presentation Awards, only a single presentation (whether oral or poster) will be considered per student. When submitting abstracts for the student presentation award, please indicate which one is being used in competition, and also send a copy of that abstract to cps.awards@gmail.com.



Meetings

Joint Meeting of the Canadian Phytopathological Society and the 17th International Cereal Rusts and Powdery Mildews Conference



Plan to attend!

Joint Meeting of the 17th International Cereal Rusts and Powdery Mildews Conference
and
Annual Meeting of Canadian Phytopathological Society

June 15 – 20, 2025

 **EMCRF**
The European and Mediterranean Cereal Rusts Foundation

 **THE CANADIAN PHYTOPATHOLOGICAL SOCIETY**
LA SOCIÉTÉ CANADIENNE DE PHYTOLOGIE

June 15 – 20, 2025

**UBC Campus,
Vancouver BC**

CO-CHAIRS:
Gurcharn S. Brar
and Colin Hiebert

For more information contact:
Tracy Gartner
Program Manager
Cereal Breeding Lab (CBL)
University of Alberta
tgartner@ualberta.ca
780-909-2321

 **CBL**
Cereal Breeding Lab

First time in the Americas!

icrPMC2025.ca

Photo credit: UBC Press & Marketing

More information may be found on the [CPS website](https://www.cps.ca) and at icrPMC2025.ca. We hope to see you there!



Plants 2025: From Seeds to Food Security



Welcome from the Chairs

We are thrilled to announce Plants 2025: From Seeds to Food Security, an international conference organized by Plants, to be held in Barcelona, Spain, from March 31st through April 2nd, 2025. This global event will bring together plant scientists worldwide to discuss and share their latest research and findings.

The world population is expected to reach 9.7 billion by 2050. This calls for a more concerted effort by scientists to increase agricultural production to feed the growing population and maintain a sustainable agroecosystem while increasing crop yields and quality. Also, preserving waterways from contamination due to excessive use of agrochemicals (herbicides, pesticides and fertilizers) and maintaining and increasing forest cover are essential issues. This conference addresses these topics through keynote talks and seven different sessions for presenting innovation and prospects for the future.

The conference organizers look forward to having experts in the field deliver keynote talks and invite other experts, postdoctoral scientists, graduate students, and anyone interested in plant research and innovation to attend this conference. They expect world researchers to convene and meet in small groups or roundtable discussions to develop future collaborations to advance plant research.

We look forward to welcoming you to Plants 2025 in Barcelona.

Prof. Dr. Dilantha Fernando, Prof. Dr. Fermin Morales, and Prof. Dr. Oscar Vicente
Plants 2025 Chairs

<https://sciforum.net/event/Plants2025>
plants2025@mdpi.com



Report from the 2024 CPS Eastern Ontario Regional Meeting

The Canadian Phytopathological Society Eastern Ontario Region (CPS-EOR) meeting was held on November, 15 2024, at the Agriculture & Agri-Food Canada (AAFC) - Ottawa Research and Development Centre (ORDC), 960 Carling Avenue, Ottawa, ON. Over 60 participants, including research scientists, professors, professionals, technicians, and students, from AAFC, Canadian Food Inspection Agency (CFIA), Carleton University, University of Ottawa, and agriculture-related companies, attended.

The organizing committee would like to thank the sponsors of the CPS-EOR meeting for their generous support: CPS headquarters (\$1000), SeCan (\$200), and PathoScan (\$200). We also thank ORDC (AAFC) for facility support.

The Associate Director of ORDC, Julie Chapados, welcomed the attendees on behalf of the Director, Dr. Jay Parsons. They introduced ORDC research and facilities and highlighted the importance of phytopathology research. Additionally, Dr. Aman Deep, the AAFC Plant Health Protection Portfolio Director, provided updates on the AAFC Plant Protection Portfolio. This was followed by a keynote address by Dr. Jeremy Dettman on “Phylogenomic Approaches to Fungal Biosystematics and Plant Pathology: Insight from *Alternaria*.”

Five contributed talks were given by Irbaz Rehman (Carleton University), Ishraq Akbar (AAFC & University of Ottawa), Thomas Witte (AAFC), and Tayab Soomro (AAFC), focusing on microbial communities in crops for combating climate change, biocontrol of diseases, mycotoxins, diagnostics through genomics, and bacteriology studies. Nine posters were presented covering the topics of biovigilance, bio-fungicide, disease resistance, diagnoses, genomics, phylogenomics, and virulence studies.

The meeting organising committee:

Registration, program & sponsorship: Miao Liu, Guillaume Bilodeau

Abstract editor and production: James Tambong

Moderators: Wen Chen, Tara Rintoul

Catering, venue set-up and photography: Imane Laraba, Sarah Hambleton, Julie Carey, MJ Mcallister, Alexandra King, Parivash Shoukouhi, SeaRa Lim, Ekaterina Ponomareva, Raja Khanal, Sarita Khanal, Morgan Bakelmun, Cecily Costain, Marko Myre-Allaire

The organising committee thanks everyone who volunteered to help and contribute to a highly successful meeting.

Reported by Miao Liu (CPS Eastern Ontario Region Representative)
Ottawa Research and Development Centre
Agriculture and Agri-Food Canada



Scenes from the 2024 CPS Eastern Ontario Regional Meeting. **A)** Julie Chapados, Associate Science Director of Ottawa Research and Development Centre, Agriculture and Agri-Food Canada, welcomed the conference attendees; **B)** Dr. Aman Deep, the AAFC Plant Health Protection Portfolio Director, provided the updates on AAFC Plant Protection Portfolio; **C)** Dr. Jeremy Dettman delivered a keynote speech; **D)** Poster viewing and mingling; **E)** Group picture of CPS-EOR 2024 meeting attendees.



Report from the 2024 CPS Atlantic Regional Meeting

The 2024 edition of the meeting of the Atlantic chapter of the Canadian Phytopathological Society, took place on November 21 at the Kentville Research and Development Centre in Kentville, NS. The local host was Shawkat Ali and he did an outstanding job arranging the meeting! There were 9 oral and 2 poster presentations on various topics in phytopathology presented in the afternoon, with a nutrition break to stimulate active discussion among participants. Dinner after the meeting was held at the Old Orchard Inn, Wolfville Ridge, NS.

We were pleased to welcome Dr. Shuanglong Huang, Department of Agriculture, Prince Edward Island as our keynote speaker. Dr. Huang is a new scientist with the PEI Department of Agriculture and his presentation was entitled: “From west to east: advancing crop health through collaborative research”.

There were multiple winners of the Best Student Paper Award. Shayne McLaughlin (Kentville Research and Development Centre, Kentville, NS) presented a paper entitled: “Exploring the bacterial communities of 'Honeycrisp' apples in Atlantic Canada”. Xavier Godin (Kentville Research and Development Centre, Kentville, NS) gave a paper entitled: “Apple (*Malus domestica*) rootstock selection of microorganisms induces differential microbiome architecture resulting in a disease suppressive state”. Qifan Yang (Canadian Food Inspection Agency, Charlottetown Laboratory, PE) presented a poster on “Assessing the viability of potato wart (*Synchytrium endobioticum*) sporangia using Fluorescent In-Situ Hybridization (FISH) techniques”. Youssef Moutahir (Université de Moncton, Moncton, NB) presented a paper entitled: “Development and validation of approaches for the detection, propagation, and synthesis of Hop Latent Viroid: toward the development of a biotechnological tool for functional genomics in cannabis”. Finally, Laryssa Roy (Université de Moncton, Moncton, NB) gave a paper entitled: “Uncovering the diversity of *Fusarium oxysporum formae speciales* affecting *Cannabis sativa*”. Each graduate student received a cheque for \$100 as a reward for their excellent presentations. Undergraduate students were awarded \$50.

Many thanks to all who attended the meeting. We trust we will be able to get together on a regular basis in future, and on that note, plans are developing for Linda Jewell and Dawn Bignell to host the 2025 meetings in Newfoundland and Labrador.

Submitted by Rick Peters, Atlantic CPS rep



Hosts, keynote speaker and student award winners at the recent 2024 CPS (Atlantic chapter) meetings in Kentville, NS. From the left: **Dr. Shuanglong Huang** (keynote speaker), **Dr. Shawkat Ali** (host), **Xavier Godin** (student), **Shayne McLaughlin** (student), **Dr. Rick Peters** (Atlantic CPS rep), **Youssef Moutahir** (student), **Qifan Yang** (student), and **Laryssa Roy** (student)

Report from the 2024 CPS British Columbia Regional Meeting

The Canadian Phytopathological Society British Columbia regional group had their annual symposium and AGM on November 18-19, 2024 at the Michael Smith Laboratories at the University of British Columbia (UBC), located on the traditional, ancestral and unceded territory of the xʷməθkʷəyəm (Musqueam) people. This year's lively and successful meeting was organized by Dr. Richard Hamelin, Dr. Samuel Holden, and PhD candidate Brian Duarte from UBC. The two-day event included two excellent plenary speakers: Dr. Monika Fischer (UBC), with her presentation, "Rising from the ashes: how fungi survive and thrive following fire," and Dr. Jared LeBoldus (Oregon States University), presenting, "*Sphaerulina musiva* mediates microbiome assembly in poplar trees by inhibiting Succinate dehydrogenase in fungal community members."



A last-minute group shot at the close of the meeting of the BC regional group at the Michael Smith Laboratories at the University of British Columbia



The winners of the student oral competition, **Berni van der Meer** (1st place; center right) and **Djihane Damoo** (2nd place; center left) along with **Dr. Richard Hamelin** (left) and **Dr. Samuel Holden** (right).

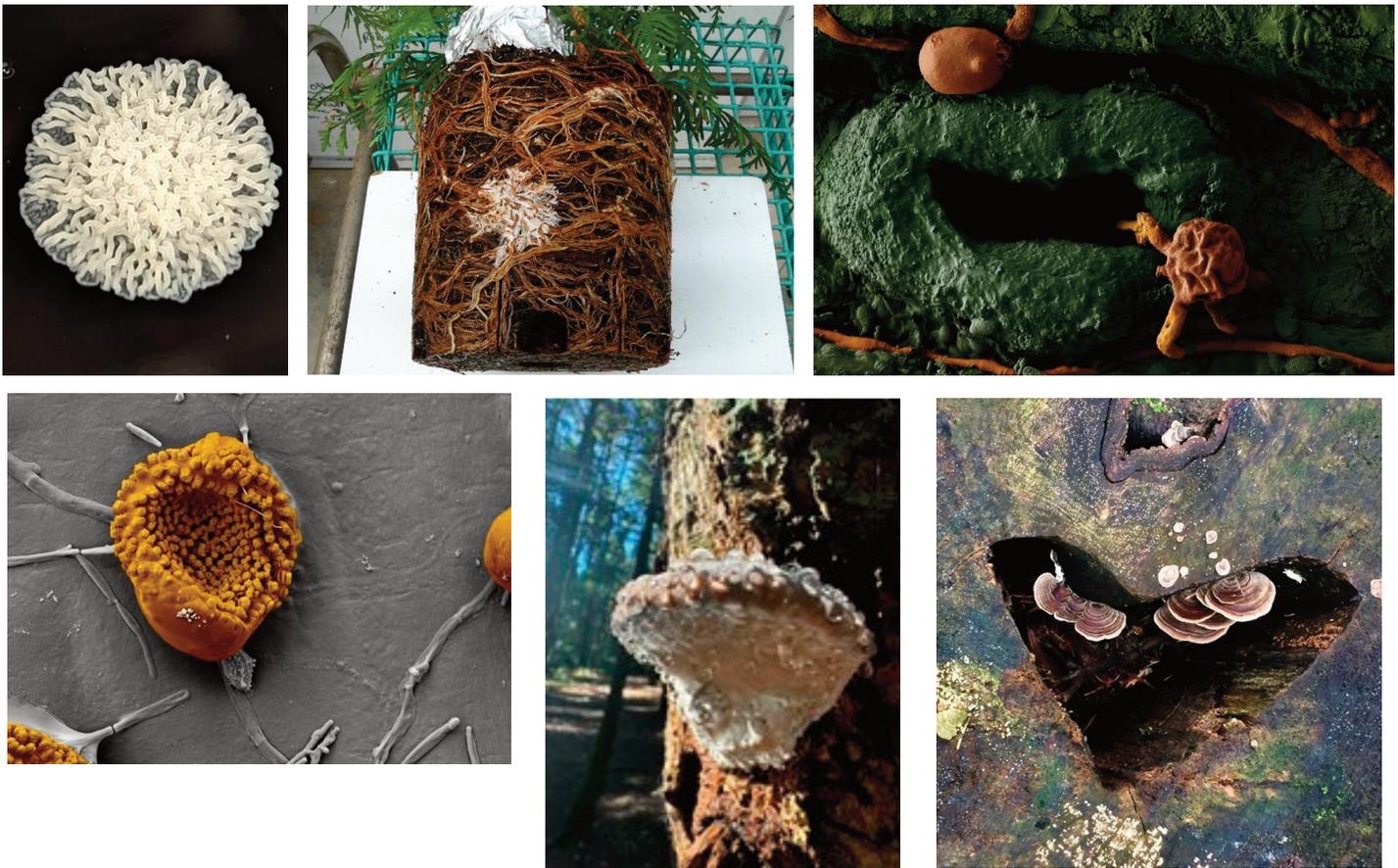
Complementing the plenaries, the days were rounded out with 11 additional interesting and diverse presentations from the 36 registered attendees, a group dinner at the new Gallery Patio & Lounge, the regional annual general meeting, and a photo competition. This year's photo competition had three categories, submitted and voted on in advance: "Lab," "Microscope," and "Field." In addition, a first place and second place student oral presentation were decided upon.

The first place winner of the student oral competition was Berni van der Meer for her presentation, "Sampling and sequencing butternut canker *Ophiognomonium clavignenti-juglandacearum*," and the second place winner was Djihane Damoo for her presentation, "An *Ustilago maydis* effector targets chloroplast

functions during infection." Congratulations to all our student presenters, and thank you for your contributions!

Next year, the national meeting will be at UBC in Vancouver, and we look forward to hosting you in our home province! The regional meeting will resume in 2026 in the Okanagan Valley.

All the best,
Jesse MacDonald, regional representative for CPS-BC
Jesse.MacDonald@agr.gc.ca



The photo competition winners, from top left to bottom right: Lab category - 1st place: **Dijane Dammo** "Compatible *Ustilago maydis* strains mating on charcoal plates," 2nd place: **Sydney Houston** "*Coniferiporia weirii* mycelium beginning to colonize greenhouse western redcedar seedling roots post artificial fungal inoculation." Microscope category - 1st place: **Brian Duarte** "The decisive moment: *Cronartium ribicola* basidiospore entering whitebark pine stomata," 2nd place: **Leah Rettenbacher** "SEM image of *Cronartium harknessii* aeciospores on lodgepole pine." Field category - 1st Place: **Kathleen Furtado** "Morning mist The Dew-Kissed Fungi of Fomitopsis," 2nd Place: **Berni Van Der Meer** "Heart rot."



People

Congratulations to Yixiao (Becky) Wang!

Congratulations to Yixiao (Becky) Wang on the successful defense of her Ph.D. thesis at the University of Alberta on June 21, 2024. Her thesis, titled "Factors Influencing Verticillium Stripe in Canola: Blackleg Interaction, Host Resistance, and pH," explored various aspects of the biology and management of Verticillium stripe. Becky was co-supervised by Drs. Stephen Strelkov and Sheau-Fang Hwang and previously earned her M.Sc. from the University of Alberta in 2018.

Yixiao is currently a Postdoctoral Fellow with Drs. Strelkov and Hwang, conducting additional research on Verticillium stripe. Her work is co-funded by the Canola Agronomic Research Program and the Western Grains Research Foundation.

Submitted by Stephen Strelkov and Sheau-Fang Hwang



See next page for photo caption

Top: Yixiao Wang (second from left) with her co-supervisors and examination committee members (from left): **Stephen Strelkov, Sheau-Fang Hwang, Rudolph Fredua-Agyeman, Scott Chang,** and **Gavin Chen.** Congratulations to Yixiao on successfully defending her Ph.D.!

Bottom: Yixiao Wang and Zhiyu Yu (in academic gowns) with their co-supervisors, **Stephen Strelkov** (far left) and **Sheau-Fang Hwang** (second from left), and supervisory committee member **Rudolph Fredua-Agyeman** (far right), on the day of their convocation at the University of Alberta.



Congratulations to Zhiyu (Fisher) Yu!

Congratulations to Zhiyu (Fisher) Yu on successfully defending his Ph.D. thesis at the University of Alberta on May 24, 2024. His thesis, titled "Development of Strategies for the Integrated Management of Clubroot of Canola," marks a significant contribution to the control of this disease.

Zhiyu completed his M.Sc. at the University of Alberta in 2019 and subsequently chose to pursue his doctorate under the co-supervision of Drs. Stephen Strelkov and Sheau-Fang Hwang. In August, Zhiyu returned to China to begin his new role as a Research Scientist at the Fujian Academy of Agricultural Sciences (FAAS) in Fuzhou, Fujian Province. His work will focus on breeding vegetable crops for disease resistance and improved yield.

Submitted by Stephen Strelkov and Sheau-Fang Hwang



Zhiyu Yu (second from left) with his supervisory committee: **Stephen Strelkov** (far left), **Sheau-Fang Hwang** (second from right), and **Rudolph Fredua-Agyeman** (right). Congratulations to Zhiyu on successfully defending his Ph.D. and starting his new role as a Research Scientist at the Fujian Academy of Agricultural Sciences (FAAS).



Young Scientists' Corner

Ryan Gourlie

University of Lethbridge



During the first years of my undergraduate degree at the University of Guelph, I was not sure what I should pursue and as a result did not perform particularly well. However, when I took the Plant Pathology course I was inspired and became very interested in the subject, and it was one of the first courses in which I excelled academically. The result of my interest and the subsequent improvement in my academic performance was a research

assistant position in the lab of Dr. Tom Hsiang. My work as an RA in Dr. Hsiang's lab eventually evolved into my Master's thesis which focused on fungicide resistance in the fungal pathogen *Microdochium nivale*. My time in Dr. Hsiang's lab was invaluable and I learned so much from not only him but the other amazing people working in his group at the time. In particular, the genomic and bioinformatic skills I acquired during this time set me on a path towards pursuing a PhD.

At the University of Lethbridge, working with Dr. Dmytro Yevtushenko and Dr. Reem Aboukhaddour at Agriculture and Agri-Food Canada, I've explored the evolution of the wheat pathogen *Pyrenophora tritici-repentis* using various comparative genomics approaches. Among other avenues of research, a highlight of my work has been the discovery of various transposons mobilizing and replicating key necrotrophic effectors in this pathogen. During my PhD I have been fortunate to receive numerous awards including: the Alberta Graduate Excellence Scholarship (AGES) three separate times, the Alberta Innovates Graduate Student Scholarship, and a Junior Fellowship from the British Society of Plant Pathology which allowed me to visit Dr. Megan McDonald at the University of Birmingham. I expect to complete and defend my PhD thesis in the Spring 2025 semester and have already begun my search for a position where I can lead a research program focused on pathogen emergence and the role transposons play in shaping pathogen evolution.



Publications

ISPP - International Newsletter on Plant Pathology



The International Society for Plant Pathology promotes the world-wide development of plant pathology and the dissemination of knowledge about plant diseases and plant health management. News and announcements from all on any aspect of Plant Pathology are invited for the Newsletter.

Editor: Daniel Huberli

e-mail: ispp.nl.editor@isppweb.org

Members of Associated Societies of ISPP can receive e-mail notification of Newsletter updates by joining the ISPP mail list.

<http://www.isppweb.org/newsletter.asp>

- How toxic are they? Researchers investigate the environmental consequences of new biotechnological pesticides
- Image-based crop disease detection using machine learning
- *Aspergillus cvjetkovicii* protects against phytopathogens through interspecies chemical signalling in the phyllosphere
- Chloroplast manipulation: A new strategy in pathogen warfare uncovered
- Current Vacancies
- Acknowledgements
- Coming Events

ISPP Newsletter 54 (10) October 2024

- Stopping plants from passing viruses to their progeny
- XVII Meeting of the Working Group 'Biological and integrated control of plant pathogens'
- New species of fungus named after plant pathologist
- Crop diseases, spoilage can hurt the food supply. Could plant prebiotics help?
- MARPLE diagnostics – monitoring recent shifts in wheat stem rust in Nepal

ISPP Newsletter 54 (11) November 2024

- A virus complex threatens Argentina's papaya crops
- Discovery of a protein's key role in RNA processes could improve disease treatment in humans and plants
- Podcast by Anthony Young on ratoon stunting disease in sugarcane
- Study analyses potato-pathogen 'arms race' after Irish famine
- Microbial allies: How friendly fungi is helping rice thrive

- A tomato bushy stunt virus-based vector for simultaneous editing and sensing to survey the host antiviral RNA silencing machinery
 - Bacteria can anticipate the seasons: Photoperiodism in cyanobacteria
 - Production vulnerability to wheat blast disease under climate change
 - Current Vacancies
 - Acknowledgements
 - Coming Events
- ISPP Newsletter 54 (12) December 2024**
- ISPP Newsletter: A decade of progress and collaboration
 - Korean Society of Plant Pathology (KSPP) Conference 2024 – Busan, Republic of Korea
 - Gift in will encourages lifetime love of plants
 - A new method to study plant defense against viruses
 - Microorganisms can travel long distances in the troposphere
 - Multiple *Phytophthora* species associated with declining wild olive trees in Sardinia, Italy
 - Climate change and plant pathogens
 - From glory to decline: Uncovering causes of oak decline in Iran
 - Current Vacancies
 - Acknowledgements
 - Coming Events



Entomological Society of Canada



The *Bulletin* has been published quarterly by the Entomological Society of Canada since 1969. It provides information on the activities of the Society and its members, research and employment opportunities, matters of wider scientific importance and book reviews.

The *Bulletin* has been published quarterly by the Entomological Society of Canada since 1969. It provides information on the activities of the Society and its members, research and employment opportunities, matters of wider scientific importance and book reviews.

Volume 56(3), September /septembre 2024

Up front / Avant-propos	127
JAM 2024 / la RAC 2024	129
STEP Corner / Le coin de la relève	131
News from the Regions / Nouvelles des régions	132
2024 ESC Awards Recipients / Récipiendaires des prix SEC	
Dr Terry Don Galloway	135
Dr Julia Mlynarek	137
Dr Charles Vincent	138
Dr Cynthia Scott-Dupree	139
Robert Vigneault	141
Kiara Calladine	142
How do they do that? / Comment font-ils cela?	
Landscape ecology of pests and natural enemies in agroecosystems	143
In memory / En souvenir de	
Charles Denton Dondale (Wayne Maddison and others)	148
Don Stoltz (Michel Cusson and Peter J. Krell)	152
Books available for review / Livres disponibles pour critique	155
Society business / Affaires de la Société	
Highlights of recent Board of Directors Meetings	156
74th Annual Meeting of Members and Board of Directors Meetings / 74e Assemblée annuelle des membres et réunions du Conseil d'administration	157
Executive Meeting–Call for Agenda Items / Réunion du conseil exécutif– Points à l'ordre du jour	157
Members' discounts / Remise pour les membres	157
Nominations for ESC Board of Directors / Nominations pour le Conseil d'administration de la SEC	158
Gold medal and C. Gordon Hewitt Awards / Médaille d'or et prix C. Gordon Hewitt	158
Honorary Members of the Entomological Society of Canada / Membres honoraires de la Société d'entomologie	159
Fellows of the Entomological Society of Canada / Membres associés de la Société d'entomologie du Canada	160
Wanted: Applicants for the Bert and John Carr Award / Recherchés : Candidats pour le prix Bert & John Carr	160
ESC Co-Secretary / Cosecrétaire	161
Annual Financial Statements / États financiers annuels	163
Announcements / Annonces	
Help create a JAM Special Collection for the Canadian Entomologist!	164
Interested in print copies of ESC publications?	165
Donate to the Entomological Society of Canada Scholarship Fund!	166
The Canadian Entomologist (TCE) is looking for a new co-Editor-in-Chief!	167
Coming soon to a conference near you: TCE stickers!	167
Over 100 years of spruce budworm research: A new Special Collection in TCE	167
Canadian Journal of Arthropod Identification	168
Advertising in the Bulletin / Publicité dans le Bulletin	168

List of Contents: Regional Journals / Table des matières : Revues des sociétés régionales	169
Contents of newsletters / Contenu des bulletins	
Canadian Weed Science Society / Société canadienne de malherbologie	170
Canadian Phytopathological Society / Societe Canadienne De Phytopathologie	171
Newsletter of the Biological Survey of Canada / Commission biologique du Canada	172
Meeting announcements / Réunions futures	173
Officers of affiliated societies / Dirigeants des sociétés associées	174
The last word / Le dernier mot	176
Governing board / Conseil d'administration	inside back cover



Contact the Editors

Linda Elizabeth Jewell, Editor

St. John's Research and Development Centre
Agriculture and Agri-Food Canada
204 Brookfield Rd.
St. John's, Newfoundland and Labrador
A1E 6J5

Telephone: 709-351-0361
Email: linda.jewell@agr.gc.ca

Coreen Franke, Associate Editor

Nutrien Ag Solutions
201 - 407 Downey Road
Saskatoon, Saskatchewan
S7N 4L8

Telephone: 306-229-4180
Email: coreen.franke@nutrien.com

Submission Deadline for the March 2025 Issue of CPS-SCP News

PLEASE NOTE: The submission deadline for the March 2025 issue of CPS-SCP News is **February 28, 2024**. If you send photographs for publication in the CPS-SCP News, please ensure that you indicate that all individuals appearing in the photographs have given permission for their photographs to appear in the newsletter. Photographs will not be published if permission has not been obtained from the individuals involved. In addition, photographs must be accompanied by a caption, and must be of suitable quality for printing. Photos that do not meet these guidelines will not be printed. Please send photos as separate attachments, rather than embedding them in Word or PDF files.

