17th International Cereal Rusts and Powdery Mildews Conference 2025

> **Annual Meeting of the Canadian Phytopathological Society 2025**

BGRI Technical Workshop 2025

June 15-20, Vancouver, Canada



SCIENTIFIC ORGANIZING COMMITTEE

Gurcharn S. Brar (Chair) Colin Hiebert (Co-Chair) Richard Hamelin (Co-Chair) Ana Badea Xianming Chen Miao Liu Matthew Moscou Curtis Pozniak Harpinder Randhawa

LOCAL ORGANIZING COMMITTEE

Mehrdad Abbasi Bipan Biran Prabhjot Chahal Sharandeep Dhaliwal Jennifer Mitchell Fetch Tracy Gartner Jujhar Gill Samuel Holden Brenda Trask

Thank You to our Sponsors!



AGENDA

*CPS Student Presentation Competition Participant

*ICRPMC Student/post-doc Presentation Competition Participant

Sunday, 15 June 2025

		Bistro West
6:00 pm	CPS Welcome Reception	University Centre
1:00 pm	CPS Workshop	Gage Multi Purpose Room
8:00 am	CPS FAC and Outgoing Board Meeting	Gage Ruth Blair D
1:00 pm	Registration Opens	Gage Lobby

Monday, 16 June 2025

7:00 am	Registration and Breakfast	Forest Sciences Atrium
	Plenary Session I	
	Forest Sciences 1221	
	Chair: Samuel Holde	n
8:20 am	Welcome Comments	
	Gurcharn Singh Brar	
8:30 am	O1: Stephen Strelkov, University of Alberta, C	
	The changing landscape of clubroot in Canada challenges	a: Virulence shifts and management
9:15 am	O2: Brian Steffenson, University of Minnesota	a, USA
	Pangenomic & virulence analyses of the barle	y leaf rust pathogen, Puccinia hordei
10:00 am	Refreshment Break	Forest Sciences Atrium
	CPS Session – Genetics, Genomics, and Breeding for Resistance I	
	Forest Sciences 1221	1
	Chair: Skyler Shaw	
10:30 am	O3: Keiko Nabetani, University of Saskatchewan, Canada	
	Development and evaluation of screening methods under a controlled environment	
	for pasmo resistance in flax	
10:50 am	O4: Mohamed Youssef, University of Manitok	
	Enhancing canola resistance to verticillium stripe: qPCR-based phenotyping and	
	GWAS reveal genetic markers for breeding ap	-
11:10 am	*O5: Xinlong Dong, University of Alberta, Car	nada
	Accelerated clubroot resistance breeding in b	orassica napus using optimized
	double haploid technology and genetic mappi	-
11:30 am	O6: Anuradha De Silva, University of Manitob	
	Exploiting susceptibility genes in canola to im	prove blackleg disease

11:50 am	CPS Annual Meeting of Members (AMOM)	Forest Sciences 1221
11:50 am	Lunch	Forest Sciences Atrium
1:00 pm	EMCRF Board Meeting	Forest Sciences 4101
CPS Session – Pathogen Surveillance, Disease Diagnostics, and Epidemiology I		
	Forest Sciences 1221	
	Chairs: Rishi Burlakoti, Vinuri Wee	erasinghe
1:40 pm	07: Émilie Tremblay, AAFC Ottawa, Canada	
	Metabarcoding of aeromicrobiomes and insect	
0.00 mm	phytopathogenic spores in agricultural fields: b	building a predictive tool
2:00 pm	*O8: Sydney Houston, Natural Resources Can	ada - Victoria, Canada
	Next-Generation Sequencing of ITS regions for	monitoring fungal pathogen
	infection and fungal community shifts in weste	rn redcedar
2:20 pm	* 09: Alice Li, The University of British Columbi	a Canada
	Genomic detection and monitoring of the Dutcl	
2:40 pm	O10: Longfei Wu, University of Alberta, Canada	
	Isolation, pathogenicity and genetic diversity of	
	Verticillium stripe of canola on the Canadian Pr	
3:00 pm	O11: Reem Aboukhaddour, AAFC Lethbridge,	Canada
	Starships and the evolution of virulence in tan s	spot (Pyrenophora tritici -repentis) of
	wheat	
3:20 pm	Refreshment Break	Forest Sciences Atrium
	CPS Session – Pathogen Genomics	and Biology I
	Forest Sciences 1221	
2.40 pm	Chair: Simranjeet Kaur	
3:40 pm	O12: Tika Adhikari, North Carolina State Unive Unraveling effects of anaerobic soil disinfestati	
	strawberry yield	on on solutiliciobionies and
4:00 pm	013: Afsaneh Sedaghatkish, University of Gue	Inh. Canada
nee pin	Advancing <i>Plasmodiophora brassicae</i> genomic	-
	contamination-free de novo assembly	
4:20 pm	4	ty Canada
	°O14: Muhammad Asim Javed, Laval Universi	
	Population genomics of clubroot pathogen reve evolution	
4:40 pm	4	
	O15: Md Al Mamun, North Dakota State Unive	
	Developing heterologous expression of rust effe	ectors in a necrotrophic fungal
	pathogen	
6:00 pm	ICRPMC Welcome Reception	University Centre Ideas

Lounge

Tuesday, 17 June 2025

7:00 am	Registration and Breakfast	Forest Sciences Atrium
8:30 am –	Delegates put-up posters	Orchard Common
3:00 pm		
	CPS Session – Pathogen Genomics a	nd Biology II
	Forest Sciences 1221	
0.20 am	Chair: Lamia Aouini	
8:30 am	O16: Jonathan Griffiths, AAFC London, Canada Genomic diversity of Tomato brown rugose fruit	
	production systems	Virus in Canadian greenhouse
8:50 am	017: Sandra M. Velasco-Cuervo, University of	Alberta, Canada
	FROM genome to pathotyping: exploring compa	
	Plasmodiophora brassicae	5
9:10 am	O18: Wen Chen, AAFC Ottawa, Canada	
	Unraveling microbial defenses: metagenomics-	guided discovery of plant growth-
	promoting bacteria for potato wart suppression	
9:30 am	*O19: Brian Duarte, The University of British Co	olumbia. Canada
	Cinderella slipper? examining host range expansion	
	<i>Cronartium ribicola</i> , the causal agent of white p	
9:50 am	Refreshment Break	Forest Sciences Atrium
	ICRPMC Session – Genetics, Genomics, and Br	eeding for Resistance I
	Dempster 301	
	Chair: Harmeet Chawla	
8:30 am	*O20: Jason Zurn, Kansas State University, USA	A
	A protein kinase fusion gene from Aegilops speltoides provides broad resistance	
	against wheat stem rust	·
8:50 am	O21: Satinder Kaur, Punjab Agricultural Univers	sity, India
	Expanding wheat's genetic horizon: wild germplasm as a source of biotic and	
	abiotic stress resistance	
9:10 am	O22: Shuyu Liu, Texas A & M University, USA	
	Utilization of wheat wild relatives to improve wh	eat yield and rust resistance
9:30 am	*O23: Jasneet Singh, University of Alberta, Can	ada
	Uncovering yellow rust resistance loci in Watkin	
9:50 am	Refreshment Break	Forest Sciences Atrium
	CPS Session – Pathogen Genomics a	nd Biology III
	Forest Sciences 1221	
	Chair: Meng Li	
10:20 am	*O24: Edward McNab, University of Guelph, Ca	anada
	Azoles vs. DMIs: A divide in fungicide resistance	eresearch terminology
10:40 am	O25: Imane Laraba, AAFC Ottawa, Canada	
	Outcomes of competitive dynamics of Fusarium	n graminearum and F. poae on
	wheat heads	
11:00 am	*O26: Yishan Zhang, The University of British C	olumbia. Canada
		etettisia, eanada

Genetic mapping of aggressiveness in Fusarium graminearum, causing Fusarium		
head blight in durum wheat		
Bag Lunch and Campus Walk (optional)	Forest Sciences Atrium	
ICRPMC Session – Pathogen Genomics and Biology		
Dempster 301		
Chair: Jesse MacDonald		
m * 027: Samuel Holden, University of Alberta, Canada		
*O28: Sean Formby, The University of British Columbia, Canada		
Technical challenges and approaches in constructing nuclei-phased genome		
assemblies of dikaryotic Puccinia triticina using early noisy long-read datasets		
0 am *O29: Babaaaa Spanner, University of Minnesota, USA		
Haplotype-phased genomes reveal the evolutionary history of race group TKTTF,		
TTRTF and avirulence gene variants associated with severe wheat stem rust		
epidemics		
Bag Lunch and Campus Walk (optional)	Forest Sciences Atrium	
	head blight in durum wheat Bag Lunch and Campus Walk (optional) ICRPMC Session – Pathogen Genomic Dempster 301 Chair: Jesse MacDonald *O27: Samuel Holden, University of Alberta, Ca A stripe rust pan-genome provides evidence for nature *O28: Sean Formby, The University of British Co Technical challenges and approaches in constru assemblies of dikaryotic Puccinia triticina using *O29: Rebecca Spanner, University of Minneso Haplotype-phased genomes reveal the evolution TTRTF and avirulence gene variants associated v epidemics	

1:20 pm Group Photo by Totem Pole near Forest Sciences Building

	Plenary Session II	
	Forest Sciences 1005	
Chair: Brent McCallum		
1:30 pm	om O30: Guus Bakkeren, AAFC Summerland, Canada	
	Wheat leaf rust pathogen genomics	
2:15 pm	O31: Silvia Germán, Instituto Nacional de Investigación Agropecuaria (INIA),	
	Uruguay	
	Over three decades of wheat and barley rust research in Uruguay: a review	
3:00 pm	Refreshment Break Forest Sciences Atrium	
CPS	S Session – Pathogen Surveillance, Disease Diagnostics, and Epidemiology II	
	Forest Sciences 1221	
	Chair: Jashanpreet Virhia	
3:30 pm	O32: Sean Walkowiak, Canadian Grain Commission, Canada	
	Trends in Fusarium species on wheat and tools for pathogen identifications in	
	large-scale monitoring programs	
3:50 pm	*O33: Skyler Shaw, Canadian Grain Commission, Canada	
	The largest Canadian population survey and genomic analysis of <i>Claviceps</i>	
	purpurea to date	
4:10 pm		
	Distribution and diversity of Abaca Bunchy Top Virus and Banana Bunchy Top Vir	us
	causing bunchy top of abaca in Caraga, Philippines	
	ICRPMC Session – Early-Career Awardees	
	Forest Sciences 1005	
	Chair: Shuyu Liu	
3:30 pm	O35: Merle Bilstein-Schloemer, University of Cologne, Germany	

	Overlap between virulence and avirulence function of <i>Blumeria hordei</i> AVR _{A13}	
3:50 pm	O36: Lamia Aouini, King Abdullah University of Science and Technology, Saudi	
	Arabia	
	The hidden genetic drivers of leaf rust resistance in wheat: a focus on disease	
	resistance modifiers	
4:10 pm	O37: Karthick Gajendiran, King Abdullah University of Science and Technology,	
	Saudi Arabia	
	Metagenomics-assisted near chromosome level assembly and annotation of	
	Puccinia graminis f. sp. tritici isolate UK01	
4:30 pm-	Poster Session I (odd numbers)	Orchard Common
6:30 pm		
6:30 pm	BGRI "Leading the Way" Social	Gage Isabel MacInnes
7:00 pm	CPS President's Reception University Centre Ideas Lounge	
7:00 pm	Student Social Gage Fort Camp Lounge	

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7:00 pm	Student Social	Gage Fort Camp Lounge

Wednesday, 18 June 2025

7:00 am	Registration and Breakfast	Forest Sciences Atrium	
	CPS Session – Genomics/Molecular Host-Pathogen Interaction		
Forest Sciences 1221			
	Chair: Shuanglong Huang		
8:30 am	O38: Rajagopal Subramaniam, AAFC Ottawa, Canada		
	Pattern recognition receptors (PRRs) regula	ate resistance to Fusarium head blight	
8:50 am	O39: Lone Buchwaldt, AAFC Saskatoon, C		
	Gene transformation with syntaxin of plants	s, lectin receptor kinase or executer1	
	provides resistance to the necrotroph path	ogen, Sclerotinia sclerotiorum	
9:10 am	*O40: Jacqueline Gonzalez-Sacoto, Unive	ersity of Saskatchewan, Canada	
	The dual role of <i>Olpidium brassicae</i> in clubroot disease development in canola		
9:30 am	*041: Caitlyn Kolb, University of Saskatchewan, Canada		
	Characterizing the ClToxB protein of <i>Colletotrichum lentis</i> through gene knockout via protoplast-mediated transformation		
9:50 am	Refreshment Break	Forest Sciences Atrium	
	BGRI Session I		
	Dempster 301		
	Chair: Maricelis Acev	vedo	
8:20 am	m Maricelis Acevedo, Cornell University, USA		
	Welcome note and introductions		
8:30 am	O42: Dave Hodson, CIMMYT, Nepal		
	Current status of wheat disease surveillance and early warning		
8:50 am	O43: Jacob Smith, University of Cambridge	e, UK	
	Forecasting wheat diseases in Africa and S	outh Asia as part of the Wheat Disease	
	Early Warning and Advisory System		
9:10 am	O44: Jemal Tola Horo, Ambo Agricultural F	Research Center, Ethiopia	
	Wheat diseases research status in Ethiopia	1	

9:30 am	O45: Paula Silva, INIA, Uruguay	
	First detection and genetic characterization of Magnaporthe oryzae pathotype	
	Triticum in Uruguay	
9:50 am	Refreshment Break Forest Sciences Atrium	
	CPS Session - Genetics, Genomics, and Breeding for Resistance II	
	Forest Sciences 1221	
	Chair: Jawad Awan	
10:20 am	O46: Marwa Laribi, University of Alberta, Canada	
	Dissecting tan spot resistance in mediterranean durum wheat	
10:40 am	* 047: Valentina Anastasini, University of Saskatchewan, Canada	
	Evaluation of wheat for resistance to bacterial leaf streak	
11:00 am	O48: David Joly, University of Moncton, Canada	
	Screening for (and trying to understand) resistance and loss-of susceptibility to	
	powdery mildew in <i>Cannabis sativa</i>	
11:20 am	O49: Maria Antonia Henriquez, AAFC Morden, Canada	
	Decoding knockout resistance: Insights into a AAC Tenacious TILLING population	
11:40 am	O50: Malini Jayawardana, University of Manitoba, Canada	
	Identifying and genetic mapping of resistance genes in wheat against bacterial leaf	
	streak	
12:00 pm	Lunch Forest Sciences Atrium	
	BGRI Session II	
	Dempster 301	
	Chair: Maricelis Acevedo	
10.00 am		
10:20 am	O51: Diane Saunders, John Innes Centre, UK	
10:20 am	O51: Diane Saunders, John Innes Centre, UK Enhancing our ability to rapidly detect and respond to wheat rust and blast	
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10:20 am 10:40 am	 O51: Diane Saunders, John Innes Centre, UK Enhancing our ability to rapidly detect and respond to wheat rust and blast outbreak O52: Suraj Baidya, Nepal Agricultural Research Center, Nepal 	
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	Durable and non-durable resistance: Bridging the gulf between academia and agriculture		
5:30 pm	ICRPMC/CPS/BGRI Joint Cocktail Reception	Alumni Centre Wong-Trainor	
6:30 pm	ICRPMC/CPS/BGRI Joint Banquet	Alumni Centre Jack Poole Hall	
	Keynote Talk <i>"100 years of Dominion Rust Lab" Brent McCallum and Tom F</i> ICRPMC Awards CPS Awards BGRI Awards Entertainment and Dancing - Rangla Punjab Arts Academy		

Thursday, 19 June 2025

7:30 am	Registration and Breakfast	Gage Isabel MacInnes	
8:00 am	CPS Incoming Board Meeting	Gage Ruth Blair D	
	Plenary Session IV		
	Gage Isabel MacInnes		
	Chair: Ana Badea		
8:00 am	O58: Urmil Bansal, University of Sydney, Austr		
	Advances in wheat breeding: Meeting the challe	-	
8:45 am	059: Christina Cowger, USDA-ARS, Raleigh, U		
	Western hemisphere wheat powdery mildew re	-	
9:30 am	Refreshment Break	Gage Fireplace Lounge	
	ICRPMC Session – Genetics, Genomics, and Br		
	Gage Isabel MacInnes		
10.00 am	Chair: Santosh Kumar		
10:00 am	O60: Diane Saunders, John Innes Centre, UK	nyodoro	
10:20 am	Safeguarding wheat yields from cereal fungal invaders		
10.20 am	O61: Jianhui Wu, Northwest A & F University, China Genomic basis of stripe rust resistance in global common wheat: an information-		
	rich landscape		
10:40 am	062: Roger Wise, USDA-ARS, USA		
10.40 am	Protein-protein network hubs in host-pathogen	interactions: Targets for next	
	generation breeding		
11:00 am	063: Rajdeep Khangura, University of Wiscons	sin-Madison, USA	
	Life, the universe, and everything for \$42: Wide		
11:20 am	O64: Eduard Akhunov, Kansas State University	y, USA	
	Global genomic landscape of wheat-wheat rus	t interactions	
11:40 am	Lunch	Gage Isabel MacInnes	
	ICRPMC Session – Genetics, Genomics, and Br	eeding for Resistance III	
	Gage Isabel MacInnes		
	Chair: Rajdeep Khangura		
1:00 pm	O65: Santosh Kumar, AAFC Brandon, Canada		
	Wheat breeding for durable rust resistance in the	he Canadian Prairies	

1:20 pm	*O66: Ming Luo, CSIRO, Australia	
	Developing cisgenic resistance gene stacks for improved resistance to wheat stem	
	rust disease	
1:40 pm	O67: Colin Hiebert, AAFC Morden, Canada	
	Genetic interactions that supress or unlock rust resistance in wheat	
2:00 pm	O68: Ana Badea, AAFC Brandon, Canada	
	Development of Canadian barley with inbuilt resistance to stem rust	
2:20 pm	*069: Jian Chen, CSIRO, Australia	
	Effector recognition and activation mechanisms of wheat NLR and kinase-fusion	
	proteins	
2:40 pm	Refreshment Break Gage Fireplace Lounge	
ICRPMC Session – Pathogen Surveillance and Global Landscape of Cereal Rusts		
	Gage Isabel MacInnes	
Chair: Paula Silva		
3:10 pm	O70: Mogens Hovmøller, Aarhus University, Denmark	
	Recent long-distance dispersal events have strong impact on the global landscape	
	of wheat yellow rust	
3:30 pm	*071: Césarée Morier-Gxoyiya, John Innes Centre, UK	
	Re-parameterising wheat stem rust models to explore disease dynamics in a	
	changing climate	
3:50 pm	072: Gurcharn Singh Brar, University of Alberta, Canada	
	Genomes, Germs, and Grains: an overview of 13 years of stripe rust research in	
	Canada	
4:10 pm	O73: Sajid Ali, CIMMYT, Pakistan	
	Population genetics structure of the south Asian Puccinia striiformis population	
	ICRPMC Wrap-Up Session	
	Gage Isabel MacInnes	
	Chair: Mogens Hovmøller	
4:30 pm	Proposal for hosting the 18 th ICRPMC	
5:00 pm	ICRPMC Student and Post-Doc Presentation Awards	
5:30 pm	Adjourn	

Friday, 20 June 2025

8:30 am	Meet at the UBC Forestry Parking Lot
9:00 am	Depart for the Field Tour
10:30 am	CBL Wheat Yellow Rust and FHB Screening Nursery Tour
12:00 pm	Lunch on site