

**Canadian Phytopathological Society  
Maritime Region Meeting  
November 26, 2009  
Atlantic Horticulture and Food Research Centre, Kentville, NS**

**INTRODUCTION**

Welcome to Kentville and to the 2009 Canadian Phytopathological Society Maritime Region Meeting. It has been a full year since we got together as a group, and I look forward to a stimulating afternoon of scientific discussion and fellowship.

There are 14 oral presentations and 2 poster presentations on various topics in phytopathology scheduled for the afternoon. A dinner and presentations will take place at The Port Pub and Bistro following the meeting.

I am pleased and honoured to welcome Dr. Rudra Singh, retired scientist with Agriculture and Agri-Food Canada's Potato Research Centre in Fredericton, as our keynote speaker. Dr. Singh is world-renowned for his work in the area of virology and the detection of viruses and has contributed to many outstanding achievements in his field of research. His presentation is entitled: "Challenges of a plant pathologist and his silent patients."

Many thanks to all who attended the meeting. I would particularly like to thank Dr. Gordon Braun, AAFC, Kentville and his assistants for hosting this year's meeting and taking on the responsibilities of organizing the meeting, scheduling the presentations and preparing the book of abstracts. I would also like to thank the Canadian Phytopathological Society, represented by president Richard Bélanger, for sponsoring this event. I trust we will be able to get together on a regular basis in future, and on that note, we will host the 2010 meetings in Charlottetown, PE.

This booklet contains abstracts of the oral and poster presentations in the order that they were presented. All abstracts will subsequently be published in an upcoming edition of the Canadian Journal of Plant Pathology. The research work represented by these papers forms an important part of the on-going development of phytopathological research in the Maritimes.

Rick D. Peters  
Maritime Region Rep  
Canadian Phytopathological Society

**Canadian Phytopathological Society  
Annual Maritime Region Meeting - 2009**

**Scientific Program**

**Thursday, November 26**

**Cornwallis Room – Atlantic Food & Horticulture Research Centre, Kentville, NS**

**1:00-1:10**      **Welcome: Rick D. Peters, CPS Rep – Maritime Region**

**1:10-1:45**      **Keynote Speaker: Dr. Rudra Singh**  
Challenges of a plant pathologist and his silent patients.

**Session A: Plant Viruses and Viroids**

1:45-2:00      Detection of potato viruses and viroids in quarantine programs using  
molecular technologies - feasibility and challenges.  
**Huimin Xu**

2:00-2:15       $\lambda$ -carrageenan reduces Tomato Chlorotic Dwarf Viroid (TCDVd)  
replication and symptom expression.  
**Jatinder S. Sangha, Rudra P. Singh, Alan T. Critchley, Balakrishnan  
Prithiviraj**

**Session B: Bacteria**

2:15-2:30      Microbial biodiversity of organic and conventional apple orchard soils.  
**Gordon Braun, E.W.E. Bevis, and S.A.E Fillmore**

2:30-2:45      Development and evaluation of loop-mediated isothermal amplification  
protocols for rapid and sensitive detection of plant pathogenic bacteria.  
**Sean Li, J.B. Nie, L. Ward, S.H. De Boer**

2:45-3:00      Development of *Arabidopsis thaliana* – *Pseudomonas marginalis* flower  
pathosystem.  
**David Hobson, M. Hoggis, G. Wang-Pruski, B. Prithiviraj**

**3:00-3:45**      **Nutrition Break and Poster Session**

**Session C: Posters**

Gibberellic acid (GA<sub>3</sub>) mediated disease susceptibility to *Sclerotinia  
sclerotiorum* in *Arabidopsis thaliana*.  
**Navratan Bahia, H. Li, S. K. Asiedu, A. B. Gray and B. Prithiviraj**

An *Arabidopsis* purple acid phosphatase 5 gene (At1g53940) mutant exhibits hypersusceptibility to *Pseudomonas syringae* pv. *tomato* DC3000.  
**Sridhar Ravichandran**, A. B. Gray, S. S. Gnanamanickam, J. Zhang, and B. Prithiviraj

#### **Session D: Fungal Plant Pathogens**

- 3:45-4:00 Quantitative proteomic analysis for identification of phosphorous acid - responsive proteins.  
**Sanhyun Lim**, G. Wang-Pruski, D. Pinto, R. Coffin, R. Peters, K. Al-Mughrabi, H. Platt, S. Veenhuis-MacNeill, I. Macdonald, K. Drake, W. Hardy, T. Hamill
- 4:00-4:15 Survey and management of *Fusarium* species causing potato seed-piece decay in Canada.  
**Rick Peters** and T. Barasubiye
- 4:15-4:30 Symptoms and epidemiology of a Septoria species causing leaf and stem spot of lowbush blueberry.  
**Paul Hildebrand**, W.E. Renderos, S.A.E. Fillmore and B. Walker
- 4:30-4:45 Evaluation of downy mildew resistance of 11 Camelina genotypes  
**Jili Li**
- 4:45-5:00 Foliar application of phosphorous acid for control of potato late blight.  
**Gefu Wang-Pruski**, S. Lim, R.H. Coffin, R.D. Peters, H.W. Platt, K.I. Al-Mughrabi, D. Pinto
- 5:00-5:15 Field efficacy of diversified groups of fungicides on suppression of *Monilinia* blight of wild blueberry.  
**Rishi Burlakoti**, D. Percival, and H.H. Hines
- 5:15-5:30 Sulfated macroalgal polysaccharide  $\lambda$ -carrageenan induces resistance against *Sclerotinia sclerotiorum* in *Arabidopsis thaliana* whereas  $\iota$ -carrageenan enhances susceptibility.  
J. Sangha, **Sridhar Ravichandran**, K. Prithiviraj, A. Critchley and B. Prithiviraj
- 5:30-5:45 PEI Plant Disease Diagnostic Service.  
**Marleen Clark**, B. Beaton.
- 5:45-6:00 Wrap-up.
- 6:30-10:00 Dinner and Awards**  
**The Port Pub and Bistro**