

International Workshop on Postharvest Biological Control:  
Challenges and Opportunities  
Leesburg, VA, October 25-28

**TENTATIVE PROGRAM**

**Monday 25 October:**

Arrival and registration

19:00 Welcome by the organizers and reception (refreshments and light snacks)

19:30 – 19:45 **Edo Chalutz**, BARD Executive Director  
*BARD's Operations, Funding Opportunities and Role in Postharvest Biocontrol Research*

**Tuesday 26 October**

8:30 – 8:40 **Samir Droby and Michael Wisniewski**, Conveners  
*Opening of the workshop and welcoming remarks*

8:40 - 9:10 **Charles Wilson**, Wilson LLC, Shepherdstown, WV, US  
*Historical Perspective on Postharvest Biocontrol: past, present and future*

**Session I: Epiphytic competence and microbial communication**

9:15- 9:45 **Johan Leveau**, UC Davis, California, US  
*Molecular approaches to study microbial ecology on plant surfaces*

9:45-10:15 **Michael Harding**, Innovotech, Inc., Alberta, Canada  
*The biology and management of microbial biofilms on plant surfaces*

10:15-10:45 Coffee break

10:45-11:15 **Ann E. Stapleton**, University of North Carolina, Wilmington, US  
*Genetic Control of Plant Microflora*

11:15- 11:45 **Rob Smith**, Biomedical Engineering, Duke University Durham, NC  
*Engineering microbial consortia and applications of synthetic ecosystems*

**11:45 -12:30 Round table discussion I**

Establishment of biocontrol agents on plant surfaces – role of biofilm formation and microbial interactions in biocontrol efficacy.

12:30 – 14:00 Lunch

- **Session II - Antagonist-pathogen-host interactions**

- 14:00 – 14:30 **Samir Droby**, ARO, The Volcani Center, Israel  
*Current knowledge on mode of action of postharvest biocontrol agents*
- 14:30-15:00 **Shiping Tian**, Chinese Academy of Sciences, Beijing, China  
*Plant host response to biocontrol agents*
- 15:00-15:30 **Michael Glenn and Carole Bassett**, USDA-ARS, FFRS, WV, US  
*Metagenomic Approach to Tracking Microorganisms on Apples- a Case Study*
- 15:30-15:50 Coffee break
- 15:50 -16:20 **Davide Spadaro**, AGROINNOVA, University of Torino, Torino, Italy  
*The role of competition for iron and cell wall degrading enzymes in mechanism of action of postharvest biocontrol agents*
- 16:20-16:50 **Sandra Wright**, University Campobasso, Italy  
*Detoxification of fungal mycotoxins by yeast antagonists -biochemical and molecular mechanisms*
- 16:50-17:30 **Round table discussion II**
- Mode of action: What we don't know about the tri-trophic interactions of biocontrol agents, pathogens, and host commodities
- 17:30-18:30 Poster viewing
- 18:30-19:30 Dinner
- Free time

### Wednesday 27 October

- **Session III Integrated approaches for disease management (from field to table)**

- 8:30-9:00 **Silvana Vero**, University of the Republic Montevideo, Uruguay  
*Integrated Approaches to Postharvest Biocontrol*
- 9:00-9:30 **Antonio Ippolito**, University of Bari, Italy  
*Control of postharvest decay through the integration of Pre and postharvest use of nonchemical compounds*
- 9:30-10:00 **Joseph Smilanick**, USDA-ARS-AFRS, Parlier, CA  
*Integrated approaches to postharvest disease management in California packing houses"*

10:00-10:20 coffee break

10:50-11:20 **Robert Prange**, Agriculture and Agri-Food Canada, Kentville, Nova Scotia  
*Integration of biocontrol strategies in organic production of fruit crops*

11:20-12:00 **Round table discussion III**

Biocontrol agents in integrated disease management program

12:00-14:00 Lunch

- **Session IV Discovery, formulation technology, and commercialization of Biocontrol agents**

14:00-14:30 **David Schissler**, USDA-ARS, Peoria, IL  
*Challenges in the Formulation of Biocontrol Agents*

14:30-15:00 **Neus Teixido'**, IRTA, Lleida, Catalonia, Spain  
*Improvement the Efficacy of Postharvest Biocontrol Agents – Production of Environmental Stress Tolerant Formulations"*

15:00-15:30 **Ben Vorstermans**, pcfruit dep Mycology, St-Truiden, Belgium  
*Current status of development of biological control products for postharvest use in Europe"*

15:30-16:00 **W. Janisiewicz**, USDA-ARS, WV, US  
*Identifying and characterizing microflora of stone fruits to select antagonist for control of brown rot with emphasis on latent infections*

16:00-16:20 Coffee break

16:20-16:50 **Contributed presentations**

16:50 – 17:30 **Round table discussion IV**

Formulation Technologies and development of biological control products

- Identification of the barriers that prevent the wide scale commercial application of biocontrol products.
- Identification of critical needs in formulation science and technology for biocontrol agents.
- New directions in future research needs

17:30-18:30 Poster viewing

19:30 Banquet

## Thursday 28 October

- **Session V – Commercialization of postharvest biocontrol agents – Regulatory and Company view point**

8:30-9:00 **Jonathan Margolis**, Agraquest, Davis, CA

*Development of and Marketing Biocontrol Agents – Industry Perspective*

9:00-9:30 **Johan Schnürer**, Swedish University of Agricultural Sciences, Uppsala, Sweden

*Development and Commercial Application of Biocontrol Agents of Grain Storage Diseases*

9:30-10:00 **Charlene Jewell**, JBT FoodTech, Riverside, CA,

*Commercializing of Green Technologies for Postharvest Disease Management.*

10:00-10:20 coffee break

10:20-10:50 **Michael Braverman**, Rutgers University, Princeton, NJ

*The Role of IR-4 In Facilitating the Registration of Biopesticides in the US*

### **10:50- 12:00 Round Table discussion V**

View points on postharvest biocontrol in major fruit producing countries

*Each speaker will have 15 min*

Registration and regulation of Biocontrol agents/microorganisms on food commodities in South America - **Alba Marina Cotes**, CORPOICA ,Bogata, Colombia

The potential Use of Postharvest biocontrol products in China - **Shiping Tian** , Chinese Academy of Sciences, Beijing, China

Postharvest use of non-chemical control strategies in Turkey - **Pervin Kinay**, Ege University, Izmir, Turkey

12-13:00 Lunch

- **Session VI: Biocontrol in various fruit and vegetable systems**

13:00-15:30 Contributed short oral presentations