

ISHS RUBUS AND RIBES 2023

Scientific Program

TUESDAY 18 JULY

15:00–19:00	Registration	REGENCY PREFUNCTION
15:00–19:00	Poster Setup	REGENCY AB
18:00–19:00	Graduate Student / Postdoc Mixer	SPOKE & FORK (HOTEL LOBBY)
	Dinner on your own	SEE PAGE VIII FOR PORTLAND DINING OPTIONS


WEDNESDAY 19 JULY

7:00–8:30	Poster Setup	REGENCY AB
7:00–18:30	Registration Open	REGENCY PREFUNCTION
8:30–17:00	Posters Open for Viewing	REGENCY AB
8:30	Welcome Lisa Wasko DeVetter, David Bryla, and Bruno Mezzetti	REGENCY CD

SESSION 1 PLANT BREEDING AND GENETICS – PART I

MODERATOR: SAVANNAH PHIPPS

REGENCY CD

9:15	KEYNOTE Highlights of a Career in Blackberry Breeding: Resiliency Exemplified! John Clark	
9:45	Blackcurrent Breeding for High Sensory Fruit Qualities – New Releases from Ukraine Oleksandr Iaroshchenko	
10:00	Sant'Orsola's Raspberry Breeding Program Gianluca Savini	
10:15	Recent Progress in Polish Raspberry and Blackberry Breeding Agnieszka Orzeł	
10:30–11:00	Coffee Break Thank you to Driscoll's for donating blackberry fruits to sample.	REGENCY PREFUNCTION 
11:00	Evaluation Process of New Raspberry and Blackberry Varieties for the Belgian Market at pcfuit Miet Boonen	
11:15	Four New Raspberry Cultivars from the Chilean Breeding Program with High Productive Potential Marina Gambardella	
11:30	Raspberry and Blackberry Breeding at Cornell University Courtney Weber	
11:45	The Progress of Raspberry Breeding in Scotland Nikki Jennings	
12:00–13:30	Lunch on your Own	SEE PAGE VIII FOR PORTLAND DINING OPTIONS

WEDNESDAY 19 JULY (CONTINUED)

SESSION 2 POLLINATION, PESTS, AND DISEASES

MODERATOR: RISHI BURLAKOTI

REGENCY CD

13:30	KEYNOTE Future-Proofing the Pollination Services to Insect-Pollinated Crop Production Romina Rader
14:00	Pollinator Communities in a Blackberry Cropping System Under Intense Management of an Invasive Pest Hannah Levenson
14:15	Mixed Infection of Blackcurrant with a Novel Cytorhabdovirus and Black Currant-Associated Nucleorhabdovirus Josef Spak
14:30	No Controls? No Problem. A Novel Approach to Develop Controls That Mimic Natural Virus Infection Ioannis Tzanetakos
14:45	Disease Epidemiology and Evaluation of Fungicides in Managing Phytophthora Root Rot and Wilt of Red Raspberry Rishi Burlakoti

15:00–15:30 Coffee Break

REGENCY PREFUNCTION

15:30	Sustainable <i>Botrytis</i> Disease Management in <i>Rubus</i> Miet Boonen
15:45	Study of Some Characteristics in Raspberry Breeding: Rust Resistance, Earliness, and Fruit Color Pedro Oliveira
16:00	Impact of Trellising on Spray Coverage: Comparing the Rotating Cross-Arm Trellis to the T-Trellis Aaron Cato

DEDICATIONS

16:15	Dedications to Drs. Bernadine Strik (1962–2023), Chad Finn (1961–2019), and Elizabeth Keep (1922–2022) Javier Fernandez-Salvador, Michael Dossett, and Felicidad Fernández	
17:00	Group Photo	GATHER IN REGENCY PREFUNCTION
17:30–19:30	Welcome Reception Including a musical performance by Dr. John Clark	REGENCY PREFUNCTION
17:30–19:30	Poster Session See page 7 for Poster Session	REGENCY AB

Dinner on your Own

SEE PAGE VIII FOR PORTLAND DINING OPTIONS

THURSDAY 20 JULY

8:00–12:00 **Registration Open**

REGENCY PREFUNCTION

8:30–12:00 **Posters Open for Viewing**

REGENCY AB

8:15 **Opening Remarks**

Lisa Wasko DeVetter and David Bryla

SESSION 3 PLANT PHYSIOLOGY

MODERATOR: GIVEMORE MUNASHE MAKONYA

REGENCY CD

8:30 **KEYNOTE | The Employment of Priming Agents as Elicitors Towards Enhanced Performance of Soft Fruits**
George Manganaris

9:00 **Assessment of Different Factors to Induce the Adventitious Regeneration in Two Blackberry Cultivars Starting from Leaf and Petiole Explants**
Angela Ricci

9:15 **Optimization of an In Vitro Seed Germination Protocol Compared to Scarification Method for Different Raspberry Genotypes (*Rubus idaeus* L.)**
Valeria Pergolotti

9:30 **Chilling Requirements for Dormancy Release in Red Currants and Gooseberries**
Anita Sønsteby

9:45 **Effects of Temperature and Photoperiod on Growth and Flowering in Red Currant Cultivars (*Ribes sativum* Syme)**
Anita Sønsteby

10:00–10:30 **Coffee Break**

REGENCY PREFUNCTION

SESSION 4 PLANT BREEDING AND GENETICS – PART II

MODERATOR: SCOTT ORR

REGENCY CD

10:30 **Advances in Molecular Breeding of Blackberries in the Arkansas Fruit Breeding Program**
Margaret Worthington

10:45 **A New Raspberry Cultivar ‘Selina’ Released from Shenyang Agricultural University**
Zhendong Liu

11:00 **Production Value and Fruit Quality of Polish Blackcurrant (*Ribes nigrum* L.) Cultivars**
Stanislaw Pluta

11:15 **Use of Gene Editing Technologies in *Rubus* to Introduce Novel Consumer and Agronomic Traits**
Andrew Fister

11:30 **Chromosome-scale and Haplotype-Resolved Genome Assembly of a Tetraploid Blackberry Line (*Rubus* L. subgenus *Rubus* Watson)**
Zhanao Deng

11:45 **Developing a Single Sequence Repeat (SSR) Fingerprinting Set to Characterize the NCGR *Ribes* Collection**
Nahla Bassil

12:00–13:15 **Lunch on your Own**

SEE PAGE VIII FOR PORTLAND DINING OPTIONS

13:15–21:30 **Offsite Excursion & Dinner Cruise**

Meet in Hyatt Regency Lobby at 13:15. *Advance ticket purchase required. Tickets are not available for sale at the Symposium.*

- Visits to Multnomah Falls, Bonneville Fish Hatchery, and Bonneville Dam.
- Concludes with dinner cruise on the Columbia River on-board the *Portland Spirit*.

FRIDAY 21 JULY

7:30–17:00 **Registration Open**

REGENCY PREFUNCTION

8:00–12:00 **Posters Open for Viewing**

REGENCY AB

8:00 **Opening Remarks**

Lisa Wasko DeVetter and David Bryla

SESSION 5 PROTECTED CULTURE

MODERATOR: LENA WILSON

REGENCY CD

08:15 **Pine Bark as an Alternative to Coco Coir for Substrate Production of Long-Cane Raspberry in the Southeastern USA**

Lisa Rayburn

08:30 **Optimising Plant Density in Long Cane Cultivation of Raspberries**

Ludger Linnemannstoens

08:45 **Extending the Raspberry and Blackberry Season in Belgian Greenhouses with Supplemental Assimilation Lighting**

Clara Spruyt

09:00 **Environmental Impacts of Red Raspberry Production: A Comparative Study of Open Field and Tunnel Production in Finland**

Marja Rantanen

SESSION 6 NEW TECHNOLOGIES AND PRACTICES

MODERATOR: NICOLAS VALANIDES

REGENCY CD

09:15 **The Employment of Remote and Proximal Sensing Technologies the Flowering and Harvesting Periods of Three Raspberry Cultivars**

Nicolas Valanides

09:30 **Response of Raspberries to the Treatment with *Spirulina* sp., *Dunaliella* sp., and *Chlorella* sp. Extractions**

Kaspars Kampuss

09:45 **Identifying Alternative Management Practices to Promote Blackberry Lateral Branch Development**

Thomas Kon

10:00–10:30 **Coffee Break**

REGENCY PREFUNCTION

SESSION 7 FRUIT HARVEST, STORAGE, AND PROCESSING

MODERATOR: AIDAN WILLIAMS

REGENCY CD

10:30 **Impact of Harvest Date on Size, Composition and Volatiles of Arkansas Fresh-market Blackberries**

Renee Threlfall

10:45 **Effects of Acclimation Prior to Storage on Marketable Attributes for Fresh Market Blackberries**

Renee Threlfall

11:00 **Controlled Atmosphere Storage and Ozone Treatments to Extend Shelf Life of GA-Grown Blackberries**

Angelos Deltsidis

11:15 **High-throughput Color Assessment of Red Raspberry Puree**

Claudia Baldassi

11:30–12:15 **ISHS Working Group Business Meeting**

REGENCY CD

- All attendees are invited to participate and vote on the location of the next *Rubus* and *Ribes* Symposium

FRIDAY 21 JULY (CONTINUED)

12:15–13:45 **Lunch on your Own**

SEE PAGE VIII FOR PORTLAND DINING OPTIONS

12:00–13:00 **Remove all Posters**

REGENCY AB

- Authors must remove all posters. Poster boards will be dismantled after lunch

SESSION 8 WEATHER AND ENVIRONMENT

MODERATOR: CAMILO SOUTO

REGENCY CD

13:45 **Effect of Weather Conditions on Annual Yield in Cloudberry (*Rubus chamaemorus*)**

Inger Martinussen

14:00 **A Simple Temperature-Based Model for Scheduling Long-Cane Blackberry Crops**

Sam Doty

14:15 **Recovery from Hail Damage for Primocane Raspberry**

Kujtim Lepaja

14:30 **Low-temperature Survival of Flower Buds of Blackberry Cultivars Grown in the Midwestern United States**

Michele Warmund

14:45 **Weighing Lysimeters for Measuring Evapotranspiration and Developing Crop Coefficients for Trailing Blackberry**

David Bryla

15:00–15:30 **Coffee Break**

REGENCY PREFUNCTION

SESSION 9 PLANT NUTRITION

MODERATOR: GUODONG (DAVID) LIU

REGENCY CD

15:30 **A Review of Nitrogen, Phosphorus, Potassium, and Calcium Nutrition in Red Raspberry and Blackberry**

Amanda Davis

15:45 **Nitrogen and Phosphorus Uptake Kinetics by Blackberry Genotypes Grown in Florida**

Guodong Liu

16:00 **Sap Nutrient Analysis: Monitoring Plant Nutrient Status in Blackberries to Increase Fertilizer use Efficiency**

Zilfina Rubio Ames

16:15 **Calcium Accumulation in Developing Fruits of Raspberry and Blackberry**

Lisa Wasko DeVetter

16:30 **Symposium Concludes**