

CONFERENCE SCHEDULE

INTERNATIONAL SCIENTIFIC ONLINE CONFERENCE "SUSTAINABLE FRUIT AND BERRY CULTIVATION"

Polli Horticultural Research Centre, Institute of Agricultural and Environmental Sciences, Estonian University of Life Sciences, Estonia

Date 19.11.2021

Time: 10:00-15:45 (Eastern European Winter Time; GMT +2)



I - FRUIT/ BERRY BREEDING, GENETIC RESOURCES, CULTIVATION TECHNOLOGIES

- 10:00 - 10:10 Opening/ introducing words
Aret Vooremäe, Head of The Polli Horticultural Research Centre, Estonia
- 10:10 - 10:20 *In Memoriam* – Dr. Kalju Kask and his contribution to Estonian fruit breeding
Ave Kikas, Estonian University of Life Sciences, Estonia
- 10:20 - 10:45 **Longer Insight 1** - Fruit and berry breeding, cultivation and research in Estonia
Ulvi Moor, Estonian University of Life Sciences, Estonia
- 10:45 - 11:10 **Longer Insight 2** - Evaluation of Estonian apple cultivars and hybrids in Latvia
Laila Ikase, Institute of Horticulture (LatHort), Latvia
- 11:10 - 11:25 PPP NORDFRUIT – Pre-breeding for future challenges in Nordic fruit and berries
Stein Harald Hjeltnes, Graminor AS, Norway
- 11:25 - 11:40 *Energy break/ poster session*
- 11:40 - 11:55 Thirty five years of blackcurrant (*Ribes nigrum* L.) breeding at the National Institute of Horticultural Research in Skierniewice, Poland
Stanislaw Pluta, The National Institute of Horticultural Research (INHORT), Poland
- 11:55 - 12:10 Apple scab control in organic apple orchards
Regina Rancane, Lithuanian Research Centre for Agriculture and Forestry, Lithuania
- 12:10 - 12:25 The effect of *Lamiaceae* plants essential oils on fungal plant pathogens *in vitro*
Simona Chrapacienė, Lithuanian Research Centre for Agriculture and Forestry, Lithuania
- 12:25 - 12:40 Precision fertilisation technologies for berry plantation
Indrek Virro, Estonian University of Life Sciences, Estonia
- 12:40 - 13:30 *Lunch break/ poster session*

II - PRE-AND POST-HARVEST FRUIT/ BERRY QUALITY, PROCESSING, VALORISATION

- 13:30 - 13:55 **Longer Insight 3** - Mining profitable nutrients from fruit processing by-products and waste - the Lithuanian perspective
Petras Rimantas Venskutonis, Kaunas University of Technology, Lithuania
- 13:55 - 14:10 Research on fruit and berry by-product valorisation in Estonia
Reelika Rätsep, Estonian University of Life Sciences, Estonia

- 14:10 - 14:25 Cranberry presscake as a source of valuable compounds
Laura Tamkutė, Kaunas University of Technology, Lithuania
- 14:25 - 14:40 *Energy break/ poster session*
- 14:40 - 14:55 Biologically active compounds composition of wild bilberries (*Vaccinium myrtillus* L.) – effects of geographic origin
Dalia Urbonavicienė, Lithuanian Research Centre for Agriculture and Forestry, Lithuania
- 14:55 - 15:10 Influence of apple varieties and microflora diversity on the sensory and volatile profiles of apple cider
Paul Cristian Călugăr, University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca, Romania
- 15:10 - 15:25 Novel and hybrid technologies for the valorization of blackcurrant press-cake: from the biorefinery concept towards added-value snack products, *Nora Pap, Natural Resources Institute Finland (LUKE), Finland*
- 15:25 - 15:45 closing remarks/ ending

LIST OF POSTER PRESENTATIONS

Title of the presentation and authors

- P1** Collection, identification and characterization of fruit crop genetic resources in Latvia
G. Lācis, S. Dane, D. Dēķena, I. Drudze, D. Feldmane, I. Grāvīte, L. Ikase*
- P2** Preliminary results of five sweet cherry rootstock evaluation for Estonian cultivar ‘Anu’
Dz. Dēķena, D. Feldmane and V. Laugale*
- P3** Influence of raspberry bushy dwarf virus on pollination of red raspberry (*Rubus idaeus* L.) cultivars
*L. Sproģe, S. Strautiņa**
- P4** Influence of vermicompost on strawberry plant growth and dehydrogenase activity in soil
V. Laugale, S. Dane, S. Strautiņa, I. Kalniņa*
- P5** Effect of rootstock on the growth and early yield of the apple cultivar ‘Sinap Orlovski’
M. Järve, T. Univer*
- P6** Evaluation of the main biological and production traits of Latvian apple cultivars in the conditions of Central Russia
N. Krasova, L. Ikase, D. Dēķena*
- P7** Suitability of blue honeysuckle (*Lonicera caerulea* L.) cultivars for cultivation in the Nordic_Baltic climate
M. Vinogradov, R. Rätsep, L. Arus*
- P8** Comparison of Polyphenols Content of Different Blackcurrant (*Ribes nigrum* L.) Cultivars at the Polli Horticultural Research Centre in Estonia, *A. Kikas*, R. Rätsep, H. Kaldmäe, A. Aluvee, A.-V. Libek*
- P9** Edible berries: *Sorbus aucuparia* - as potential source of antioxidants - a review
*G.A. Spaller, C.C. Mureşan, R.M. Marc (Vlaic), V. Mureşan, A.E. Mureşan, G.S. Martiş**

- P10** Ascorbic acid, phenolic compounds and antioxidant capacity of traditional Serbian 'Plum cake'
*D. Prvulović**, *G. Barać*, *M. Peić Tukuljac*, *V. Ognjanov*, *M. Ljubojević*
- P11** Comparison of vitamin C content of blackberry (*Rubus fruticosus* L.) and cornelian cherry (*Cornus mas* L.) from eastern and western Serbia
*R. Kolarov**, *S. Đorđević*, *D. Prvulović*
- P12** Green synthesis of silver nanoparticles using aqueous extract of *Viburnum zarnica* - 2 and *Viburnum sargentii* berries antioxidant, antimicrobial activity and phenolic composition, *A. Balčiūnaitienė**, *J. Viškelis*, *P. Viškelis*
- P13** Fruit leaf extracts and their perspectives in the cosmetics industry - preliminary study
D. Segliņa, *I. Krasnova*, *K. Juhņeviča-Radenkova*
- P14** Antioxidant and biological properties of *Quercus rubra* L. fruits
*A.E. Tanislav**, *R.A. (Vlaic) Marc*, *M. Niculae*, *E. Páll*, *V. Mureşan*, *A. Mureşan*, *A. Puşcaş*, *C.C. Mureşan*, *C. Cerbu*
- P15** Chemical constituents and antioxidant activity of *Aralia cordata* (*Aralia cordata* Thunb.) berry, seed, pulp, juice, and pomace
*V. Puzerytė**, *D. Urbonavičienė*, *P. Viškelis*
- P16** Characterization of avocado seed powder as an alternative and sustainable ingredient - citotoxicity evaluation and biological activity
*A. Puşcaş**, *A.E. Tanislav*, *R.A. Marc Vlaic*, *V. Mureşan*, *A.E. Mureşan*, *M.A. Mateescu*, *A. Păucean*, *S. Chis*, *S. Muste*, *E. Pall*, *C.G. Cerbu*
- P17** Antioxidant activity and phytochemical composition of *Dioscorea caucasica* and *Dioscorea nipponica* leaves extracts
*J. Zandovaitė**, *L. Tamkutė*, *R. Kazernavičiūtė*, *A. Pukalskas*, *P. R. Venskutonis*
- P18** Antioxidant properties and aroma profile of swallow-wort (*Vincetoxicum lutea* L.) leaves extracts
*J. Jovaišaitė**, *L. Tamkutė*, *R. Baranauskienė*, *A. Pukalskas*, *P. R. Venskutonis*
- P19** Freeze concentration in the processing of berry juices and birch sap
*M. Jaakkola**, *M. Mäki*, *V. Virtanen*

Registration to the conference is open until November 15, 2021.

Register here: <https://forms.gle/6RwssAGcaDJT8MAr9>

The working language will be English.

Conference is free of charge.

More information: polli2020@emu.ee

<https://plantvalor.ee/index.php/en/news/>



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