



# 2023 EAPR Post Harvest and Agronomy & Physiology sections meeting Programme



Villers Saint Christophe, 27-29 June 2023

## Tuesday 27 June 2023

13:00-14:00 Welcome - registration and snacks

### Opening session

14:00 Introduction of the Joint Meeting by the Section Chairs

14:10 ARVALIS welcome and presentation François LAURENT - Cyril HANNON

### Session 1 Nutrition and modeling Chair : Peter DOLNIČAR/ Idit GINZBERG

14:30	In-season potato crop nitrogen status assessment from satellite and meteorological data	Dimitri GOFFART
14:50	Developing a new tool for N optimization and precision agriculture in potato farm	Francesca DEGAN
15:10	POMOD: a new POTato growth MODEL	Benoît VASSEUR
15:30	Patterns of NUE are different for early and late varieties when results from in vitro and field trials are	Ilze DIMANTE
15:50	Selection of potato varieties suitable for organic farming in Slovenia based on farmer participatory trials	Peter DOLNIČAR

16:10-16:40 Coffee break \*

### Session 2 Sprout inhibition Chair : Kürt DEMEULEMEESTER/Michel MARTIN

16:40	Monitoring commercial potato stores in Belgium	Kürt DEMEULEMEESTER
17:00	New strategies for sprout-free long-term storage of processing potatoes in Norway	Pia HELTOFT
17:20	OptiGERM : an online Decision Support System in construction to help the industry on tuber sprout control	Michel MARTIN
17:40	Ethylene management in store for controlling tubers sprouting and colouration after frying	Morgane FLESCHE
18:00	Ethylene sensitivity and effects on potato storage and quality	Andreas MEYER
18:20	Limiting changes in respiration of stored potato from ethylene	Adrian BRIDDON

18:40 Bus shuttle to hotels

Dinner at your own

## Wednesday 28 June 2023

07:30 Bus shuttle from hotels

### Session 3 Keynotes : new issues for future Chair : Michel MARTIN

08:00 Climate change : main challenges to consider for sustainable food supply Stéphane JEZEQUEL

08:30 Remote sensing : an increasing help for deeper experimentation from field to storage Katia BEAUCHENE

### Session 4 Potato quality and yield Chair : Ilze DIMANTE

09:00	Epigenetic modifications related to potato skin russeting	Idit GINZBERG
09:20	Is cell cycle progression a key player in potato response to drought?	Dorota SOŁTYS-KALINA
09:40	Potato dry matter and underwater weight disparity under drought: an agronomic or a genetic issue?	Ernest Beckee ALICHE

10:00-10:20 Coffee break\*

### Session 5 Storage and quality Chair : Andreas MEYER

10:20	Genotype-specific starch characteristics in relation to resistant starch formation in table potatoes	Marcus SCHMIDT
10:40	Gene expression changes induced by the sprout inhibitor DMN during potato dormancy release	Emily DOBRY

11:00	Glycoalkaloid formation in processing potatoes in response to various post-harvest stresses	Christina MEYERS
11:20	More energy sobriety for storage: a review of possibilities from harvest to store removal	Michel MARTIN

**Session 6 Posters at a glance \*\* Chair : Francesca DEGAN**

11:40		
Poster 1	The effect of climate changes on the culinary properties of Estonian potato varieties	Terje TÄHTJÄRV
Poster 2	Root2Res: Root phenotyping and genetic improvement for rotational crops resilient to environmental change - Root acquisition <i>modus operandi</i> for potato	Florent CHLEBOWSKI
Poster 3	Phenotyping of potato genotypes in terms of their tolerance to soil drought and high temperature	Dominika BOGUSZEWSKA-
Poster 4	PATAT'UP – Towards the production of a low-input potato: Results of the first-year trial on nitrogen efficiency (2022)	Feriel BEN ABDALLAH

12:00-14:00 Lunch

**Session 7 Potato growth and weed management Chair : Idit GINZBERG**

14:00	Manipulating potato growth with seed treatments of gibberellic acid and naphthalene acetic acid	Michael THORNTON
14:20	Potato tuber size regulation via sequential GA and PBZ application	Akiva SHALIT-KANEH
14:40	Content of bioactive substances in potato tubers with red, purple and yellow flesh	Andrea SVOBODOVÁ
15:00	Comparison of different types of starting potato materials - <i>in vitro</i> plants (tissue culture plants), sprouted tubers, cuttings from mother plants in aeroponics and substrate technology	Milan CIZEK
15:20	Potato weed management using herbicides in the Czech Republic	Jaroslav CEPL
15:40	Alternative ways of weed control in potatoes	Pavel KASAL

16:00-16:20 Coffee break\*

16:20-16:40	Meeting of the Agronomy & Physiology section	Meeting of the PostHarvest section
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16:50 Bus shuttle to Péronne

17:20-19:00 Péronne HISTORIAL Museum

19:10-19:40 Aperitif

19:40-22:00 Conference dinner

22:00 Bus shuttle to hotels

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**Thursday 29 June 2023**

08:30	Bus shuttle from hotels
09:00	Welcome coffee at the Arvalis Technical Day
09:30	Free visit of the event
12:00	Lunch on site
13:40	Departure on your own

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**\*\* Complementary posters**

Poster 5	The content of pro-health compounds and antioxidant properties of 65 potato cultivars characterized under the European project Ecobreed	Beata TATAROWSKA & Jaroslaw PLICH
Poster 6	Identification of different potato varieties ( <i>Solanum tuberosum</i> L.) by multispectral imaging	Peter DOLNIČAR
Poster 7	Process technologies and technical solutions energy efficient storage in the Czech Republic	David HÁJEK

\* Posters will be exposed all along the meeting with accessible discussions during coffee breaks