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EAPR 2022

21st Triennial Conference
Krakow, July 4-8, 2022

Organizers:



PROGRAMME AT GLANCE

The Conference date is July 4-8, 2022.

Please note that this is not the final version of the programme.
Programme will be updated.

Sunday 3 rd July 2022	
16:30-19:00	Registration
room	Lecture room - Lwów C
17:00-18:00	Extraordinary EAPR Council Meeting
18:00-19:00	Meeting of Country Representatives and EAPR Council
Monday 4 th July 2022	
08:00	Registration
room	Plenary Room - Wiedeń
08:30-10:00	Opening session
08:30-09:00	Welcome
09:00	Jadwiga Śliwka - President of EAPR
	Michał Rokicki - Director of IHAR-PIB
09:00-10:00	Plenary session - Chairperson: Michał Rokicki – Director of IHAR-PIB
	Keynote Lecture 1
09:00-09:30	The potato program of the International Potato Center (CIP): successes, challenges and the way forward
	Ian Barker
	Keynote Lecture 2
09:30-10:00	Genome design of hybrid potato
	Sanwen Huang

10:00-10:30	Coffee break			
10:30-11:00	Plenary Room - Wiedeń			
10:30-12:00	Chairperson: Jadwiga Śliwka – President of EAPR			
11:00-11:30	 on strategies in fried potato products (https://eapr2020.pl/) Vural Gökmen (Burçe Ataç Mogol presents) Keynote Lecture 4 The mission of <i>Phytophthora</i> : explore, invade and manipulate. Francine Govers Keynote Lecture 5 - TBC Potatoes in organic farming – perspectives, challenges and constraints Christian Bruns			
12:00-13:30	Lunch			
13:30-15:10	Parallel sessions			
	Lecture room 1 - LWOW A	Plenary room - Wiedeń	Lecture room 3 - Budapeszt A,B	Lecture room 2 - Budapeszt C
	Session 13	Session 2	Session 3	Session 5+6
	<i>Engineering, DSS & precision agriculture</i>	<i>Resistance breeding</i>	<i>Organic production & bioagents</i>	<i>Seed production + Viral diseases</i>
	Chairpersons: Corne Kempenaar, Brice Dupuis, Ankush Prashar	Chairpersons: Sylvie Marhadour, Jarosław Przetakiewicz	Chairpersons: Peter Dolničar, Ilze Skrabule	Chairpersons: Adrian Fox, Ewa Zimnoch-Guzowska, Jacek Hennig, Paul Struik
13:30-13:50	Martin Steyn (Linus Franke presents) - In-field assessment of resource use efficiencies for more sustainable potato production on sandy soils	Renata Lebecka - Quantitative trait loci for tuber resistance to <i>Dickeya solani</i> and starch content in diploid potato	Ilze Skrabule - Traits important for organic potato production: yield stability and nitrogen use efficiency	Denis Griffin - Variety needs and preferences to establish breeding targets for sub Saharan Africa, experience from Kenya and Eritrea
13:50-14:10	Ana Vojnović - Early detection of root-knot and potato cyst nematode infections in potatoes using hyperspectral imaging	Tilo Hammann - Pre-breeding for late-blight resistance – a way to an environmentally safe potato production	Rebeka Leslie Erlinghagen - Cultivation systems for nitrogen and phosphorus efficiency phenotyping in potato	Leah Tsror - Monitoring Verticillium dahliae infection in local and imported seed tubers using molecular analysis
14:10-14:30	Ankush Prashar - Crop sensing: Integrating high throughput approaches for Quantitative assessment and stress monitoring in potato	Charlotte Prodhomme - How can stem infection tests complement field trials to evaluate late blight resistance?	Ilze Dimante - Adapting value for cultivation and use (VCU) testing protocols to stimulate the release of suitable potato varieties for organic farming	Zhimin Yin - Cultivar-specific alteration of the selected host miRNAs and mRNA targets in potato-PVS resistance interaction
14:30-14:50	Phatchareeya Waiphara (Ankush Prashar presents) - High-throughput phenotyping for crop monitoring in potato (<i>Solanum tuberosum</i> L.) using unmanned aerial vehicle	Daniel Monino-Lopez - <i>Rpi-agf1</i> , a non-typical broad-spectrum R gene against <i>Phytophthora infestans</i> involved in multivesicular bodies formation	Peter Dolničar - Study on suitability of late blight resistant potato varieties from ecobreed working collection for Slovenian market	Sylvie Marhadour - Genetic fingerprints using SSR markers to secure seed potato production in France: method and database improvement
14:50-15:10		Dong Zhang - Structural and functional analysis of the <i>Synchytrium endobioticum</i> effector AvrSen1	Mout De Vrieze - Combining antagonistic bacteria with copper to control late blight disease in potato plants	
14:50-15:40	Coffee break			
15:40-16:20	Parallel sessions			
		Plenary room - Wiedeń		
		Session 2		
		Chairpersons: Sylvie Marhadour, Jarosław Przetakiewicz		
		<i>Resistance breeding</i>		
15:40-16:00		Marta Grech-Baran - R _{Y10} receptor recognises core structure of Potato Virus Y coat protein		
16:00-16:20		Karin Gorzalka - Metabolite analysis and testing of <i>Solanum</i> species and accessions for increased pest resistance in <i>Solanum tuberosum</i>		

16:30-18:30		Plenary Room - Wiedeń			
18:30-20:00		Lobby			
		EXPO Kraków			
		Tuesday 5 th July 2022			
08:00-09:00 Registration room		Plenary Room - Wiedeń			
09:00-10:30		Plenary session – Chairperson: Arne Hermansen – President-Elect of EAPR			
09:00-09:30		Keynote Lecture 6			
		Potato wart disease management and resistance breeding: a genomics approach			
		Jack Vossen			
09:30-10:00		Keynote Lecture 7			
		Can marker-assisted selection for drought tolerance in <i>Solanum tuberosum</i> replace selection on yield in arid environments?			
		Karin Köhl			
10:00-10:30		Keynote Lecture 8			
		Genetic approaches to increasing disease resistance in potato			
		Jonathan D. G. Jones			
10:30-11:00		Coffee break			
11:00-12:20 room		Parallel sessions			
		Session 15	Session 4	Session 7	Session 8
		Lecture room 1 - LWOW A	Plenary room - Wiedeń	Lecture room 3 - Budapeszt A,B	Lecture room 2 - Budapeszt C
		Physiology	Bacterial & fungal diseases	New techniques & hybrid breeding	Disease control strategies
		Chairpersons: Idit Ginzberg, Waldemar Marczewski	Chairpersons: Hans Hausladen, Ewa Łojkowska, Wojciech Ślędź	Chairpersons: Domenico Carputo, Corentin Clot, Herman van Eck	Chairpersons: Glenn Bryan, Alison Lees, Leah Tsrer
11:00-11:20		Chunmei Zou - Sprouting as an expression of physiological ageing of seed tubers of modern potato cultivars	Shiferaw Tafesse (Paul C. Struik presents) - Management of bacterial wilt by smallholder potato growers: lessons learned in Ethiopia	Nicole Viaene - Detection of quarantine root-knot nematodes in potato tubers with hyperspectral image analysis	Marta Sanzo-Miró - Pre- and postharvest strategies to control potato black dot - an integrated approach
11:20-11:40		Idit Ginzberg - The transcriptome of potato tuber phellogen reveals cellular functions and genes involved in skin formation and maturation (skin-set)	Elsie Cruywagen - First report of <i>Alternaria grandis</i> and <i>A. arborescens</i> causing leaf spot of potato in South Africa	Marie Greplová - The intention to incorporate <i>S. pinnatisectum</i> in the breeding programme	Pieter Vanhaverbeke - Improving decision support systems for an integrated control of <i>Alternaria</i> spp. in potatoes
11:40-12:00		Dorota Soltys-Kalina - Involvement of glycoalkaloids and flavonoids in potato (<i>Solanum</i> sp.) phytotoxic interactions	Julie Pedersen - The presence and distribution of <i>Verticillium dahliae</i> and <i>Colletotrichum coccodes</i> in relation to Potato Early Dying (PED) in Denmark	Maria de la O Leyva Perez - PotatoMASH - a low cost, genome-scanning marker system for use in potato breeding	Geoffrey Darbon - Inoculation of plant growth-promoting microbes at planting limit post-harvest diseases of potato in Swiss field conditions
12:00-12:20			Cigdem Aydogan - Molecular responses of potato plants to salt stress and <i>Rhizoctonia solani</i> Kühn. combination		
12:20-13:50		Lunch			
13:50-14:50 room		Parallel sessions			
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13:50-14:10		Ilze Dimante - Towards efficient indirect markers for nitrogen use efficiency assessment in potato genotypes	Jakub Orłowski - Application of a dielectric-barrier discharge plasma for eradication of plant pathogens, <i>Dickeya</i> and <i>Pectobacterium</i> spp., from a surface of economically important seeds	Luuk van Dijk - Hybrid breeding revolutionizes potato cultivation systems	Poorva Sundararajan - Small RNAs, big impacts
14:10-14:30		Katarzyna Szajko - Transcriptomic and proteomic data provide new insights into cold-treated potato tubers with T- and D- type cytoplasm		Michiel De Vries - Hybrid breeding in potato: from science to practice	Brice Dupuis - What is the best treatment strategy to control <i>Potato virus Y</i> (PVY) spread in potato fields?
14:30-15:00		Coffee break			
15:00-16:30		Poster session 1			
16:30-17:30		EAPR Sections Meetings			
room		Lecture room 1 - LWOW A	Plenary room - Wiedeń	Lecture room 3 - Budapeszt A,B	Lecture room 2 - Budapeszt C
16:30-17:30		AGRONOMY & PHYSIOLOGY Chair: Jean-Pierre Goffart	BREEDING & VARIETAL ASSESSMENT Chair: Domenico Carputo	PATHOLOGY & PESTS Chair: Leah Tsrer	POST HARVEST Chair: Tjaart Hofman

08:00				
09:00	Plenary room - Wiedeń			
10:00	Chairperson: Kürt Demeulemeester – Vice-President of EAPR			
09:00	Markers to assess and advance tetraploid (4x) and diploid (2x) potato breeding			
09:30	https://eapr2020.pl/			
	David Douches			
	Keynote Lecture 10			
09:30-10:00	Global developments in automated potato storage management			EN (/GB/) PL (/PL/)
	Adrian Cunnington			
10:00-10:30	Coffee break			
10:30-11:50	Parallel sessions			
	Session 9	Session 10	Session 11	Session 12
room	Lecture room 1 - LWOW A	Plenary room - Wiedeń	Lecture room 3 - Budapeszt A,B	Lecture room 2 - Budapeszt C
	Genetics & genetic resources	Late blight	Climate change (drought & heat resistance)	Post harvest & storage technology
	Chairpersons: Klaus Dehmer, Dan Milbourne	Chairpersons: Eve Runno-Paurson, Ingo Hein	Chairpersons: Mehmet Emin Çalışkan, Dominika Boguszewska-Mańkowska, Teresa Mosquera-Vásquez	Chairpersons: Tjaart Hofman, Michel Martin
10:30-10:50	Laura Shannon - Potato diversity at four levels	Cécile Thomas - Interactions between potato defense responses and <i>Phytophthora infestans</i> effectors depend on the genotype and condition the effectiveness of induced defense on symptoms development	Teresa Mosquera-Vasquez - Physiological, biochemical responses and yield components reveal genetic architecture of tolerance to water deficit in diploid potato	Tjaart Hofman - How has the long term storage of potatoes been transformed from relying on CIPC to alternative means of sprout control? Challenges and successes
10:50-11:10	Dan Milbourne - Developing pathways for practical deployment of DNA-based selection strategies in potato breeding	Ingo Hein - Targeted mining of potato germplasm collections for novel disease resistance genes	Dominika Boguszewska-Mańkowska - The effect of drought and heat stress on potato root system	Michel Martin - A European collective and continuous initiative for accompanying CIPC residue monitoring through the Potato Value Chain
11:10-11:30	Rodolfo Ortiz - Breeding table potato for Fennoscandia	Isaac Abuley - Controlling late blight in susceptible and resistant potato cultivars	Linus Franke - Assessing evapotranspiration and the crop coefficient of potato in a semi-arid climate using the Eddy	James Pitman - Using metabolomics to guide sprouting suppression
11:30-11:50		Louise Cooke - Update on AsiaBlight's efforts to create a coarse-scale map of the <i>Phytophthora infestans</i> population in Asia		Margot Visse-Mansiaux - The effect of Genotype by Environment by Management interaction (GxExM) on sprouting and glucose content in potato tubers during storage
12:00-13:30	Lunch			
13:30-15:10	Parallel sessions			
	Session 9	Session 10	Session 11	Session 12
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13:30-13:50	Xulan Wang - GWAS analysis to identify loci involved in the release of bud dormancy using a panel of diploid potato clones	Mout De Vrieze - The potato phyllosphere microbiome versus late blight: from infection to disease management	Krzysztof Treder - Impact of drought and high temperature on the expression of selected housekeeping genes in potato leaves	Morgane Flesch - The use of ethylene for the processing market
13:50-14:10	Mousumi Hazarika - Screening for phosphorus efficiency in potato genetic resources	Pierre Deroo - Combining the control measures for a significant reduction of treatment frequency index (TFI) for the integrated control of potato late blight	Maverick Gouerou - Identification of potato varieties with contrasted susceptibility to drought	Erlend Indergård - Industrial storage of potatoes for frittered products: temperatures, humidity and air-distribution, and formation of acrylamide
14:10-14:30				Frank van der Linden - Minimizing storage losses by optimization of the air humidity during different storage phases
14:20-14:50	Coffee break			
14:50-16:20	Poster session 2			

Thursday 7 th July 2022				
08:00				
		Parallel sessions		
		09:00-10:00	Session 16	
		Lecture room 3 - Budapest A,B		
		Virology Section Meeting		EN (/GB/) PL (/PL/)
9:00-10:00	Lecture room 2 - Budapest C (https://eapr2020.pl/)			
	Processing (old & new products)			
	Chairpersons: <i>Agnieszka Kita, Kåre Lehmann Nielsen</i>			
9:20-9:40	Inga Smit - Prediction of acrylamide formation in French fries with near-infrared spectroscopy (NIRS)			
9:40-10:00	Tadele Melaku Challa - Market access and value chain analysis of potato in West Shoa zone, Ethiopia			
10:00-10:30	Coffee break			
from room	Plenary room - Wiedeń			
10:30-12:00	Final plenary session – Chairperson: Jadwiga Śliwka – President of EAPR			
	Keynote Lecture 11			
10:30-11:00	Potato crop nitrogen status monitoring with spectral sensors: last decade developments and implementation for sustainable N fertilisation management			
	Jean-Pierre Goffart			
	Closing ceremony			
11:00-12:00	Jadwiga Śliwka - President of EAPR			
	Dariusz Grzebelus - Committee of Agronomic Sciences of the Polish Academy of Sciences			
12:00-13:30	Lunch			
from 18:00	Conference Dinner - Wieliczka Salt Mine			
Friday 8 th July 2022				
Excursions				

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PROGRAMME

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INFORMATION

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REGISTRATION AND

ABSTRACTS

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