

Session I

Global scenario on production, utilization and marketing of roots and tuber crops

Monday, November 2			
Auditorium A			
Moderators: D. Campilan / G. Thiele			
14:00	Scott, Gregory	Definitive trends for food systems in Latin America? The case of potatoes over the last half century and into the next	OP-01
14:20	Hareau, Guy	Economic returns to improved crops in the center of origin: The case of potato varieties in Peru	OP-02
14:40	Campilan, Dindo	Sweetpotato Consumption in Orissa, India and Implications for Nutrition & Livelihood Improvement	OP-03
15:00	Taylor, Mary	Root and tuber crops of the Pacific: A resource for meeting the challenges of the 21st century	OP-04
15:20	Huang, Zhenglin	Present status and development strategies of potato industries in Chongqing, China	OP-05
15:40	<i>Coffee break</i>		
16:00	Naskar, Samir K.	Progress and status of yam bean (<i>Pachyrhizus</i> sp.) research in India	OP-06
16:20	<i>Posters</i>		
16:40	<i>Posters</i>		
17:00	<i>Posters</i>		
17:20	<i>Return</i>		

Session V

Management of abiotic stresses for sustainable intensification of R & T crops

Monday, November 2			
Auditorium B			
Moderators: R. Schafleitner / F. Ezeta			
14:00	Reynoso, D.	Funding opportunities for research and development of tropical root and tuber crops in Peru.	
14:20	Lead Lecture: Palta, Jiwan (Univ. of Wisconsin)	Understanding and managing the impact of abiotic stresses: Developing strategies for sustainable production in a changing climate	LL-05
14:40		<i>Discussion</i>	
15:00	Schafleitner, Roland	Drought stress tolerance traits of potato	OP-32
15:20	Andrade, Maria	Screening sweetpotato for drought tolerance and high beta carotene content in Mozambique	OP-33
15:40		<i>Coffee break</i>	
16:00	Laurie, Sunette	A quick screening method for drought tolerance in sweetpotato in South Africa	OP-34
16:20		<i>Posters</i>	
16:40		<i>Posters</i>	
17:00		<i>Posters</i>	
17:20		<i>Return</i>	

Session III

Crop Improvement for sustainable intensification of R & T crops

Tuesday, November 3			
Auditorium A			
Moderators: P. Demo / S.K. Pandey			
08:30	Lead Lecture: Gruneberg, Wolfgang (CIP)	Heritability estimates for an accelerated breeding scheme (ABS) in clonally propagated crops - using sweetpotato as a model	LL-03
08:50	<i>Discussion</i>		
09:10	Mosquera, Verónica	Inheritance of plant and tuber traits in diploid potatoes	OP-17
09:30	Mosquera, Verónica	Inheritance of plant and tuber traits in tetraploid potatoes	OP-18
09:50	Mendoza, Humberto	Breeding for heat tolerance, earliness and disease resistance for the warming potato producing environments	OP-19
10:10	Mendoza, Humberto	Potato multiple virus resistance breeding in Peru	OP-20
10:30	<i>Coffee break</i>		
10:50	Pandey, S.Kumar	Development of potato cultivars suitable for processing under subtropical conditions-conventional and biotechnological approaches	OP-21
11:10	Tsegaye, Engida	New potato (<i>Solanum tuberosum</i> L.) variety released for the high lands of Southern Ethiopia	OP-22
11:30	Loayza, Hildo	Adapting an instantaneous canopy photosynthesis model to simulate potato net primary productivity using remotely sensed data	OP-23
11:50	Carli, Carlo	Adaptability and storability of CIP advanced potato clones under long-day conditions of Central Asia	OP-24
12:10	Rodriguez, Gustavo	Sweetpotato breeding in Uruguay	OP-25
12:30	Tsegaye, Engida	The influence of GxE interaction on the storage root yields of orange fleshed sweet potato varieties grown in Ethiopia	OP-26
12:50	<i>Lunch</i>		
14:00	Nemorin, Alice	Inheritance patterns of tetraploid <i>Dioscorea alata</i> varieties	OP-27

Session II

Genetic resources, conservation and utilization

Tuesday, November 3			
Auditorium B			
Moderators: M. Taylor / D. Tay			
08:30	Lead Lecture: Fowler, Cary (Global Crop Diversity Trust).	Securing the genetic base of root and tuber crops	LL-02
08:50		<i>Discussion</i>	
09:10	Scott, Gregory	Plants, people and a portfolio approach to the conservation of biodiversity: The case of potatoes in Peru	OP-07
09:30	Tay, David	CIP genetic resources program: A model genebank	OP-08
09:50	Chair, Hana	Towards an efficient in situ conservation of wild yams: A case study on <i>Dioscorea praehensilis</i> in Benin	OP-09
10:10	Simon, Reinhard	Gaining and maintaining the worlds first ISO accreditation for a genebank	OP-10
10:30		<i>Coffee break</i>	
10:50	Panta, Ana	Status and impact of <i>in vitro</i> conservation of root and tubers at the International Potato Center (CIP)	OP-11
11:10	del Río, Alfonso	Assisting potato germplasm management and utilization by integrating molecular-based functional genetic diversity	OP-12
11:30	Rossel, Genoveva	Identification of duplicate accessions within a sweetpotato germplasm collection using morphological characterization and AFLP markers	OP-13
11:50	Arbizu, Carlos	<i>Ex situ</i> conservation of underutilized Andean roots and tubers in the highlands	OP-14
12:10	Soto, Julián	Genetic diversity of yacon (<i>Smallanthus sonchifolius</i>) in Peru	OP-15
12:30	Scarcelli, Nora	Farmers' practices and the consequences for the conservation of clonally-propagated Rt crops. The case of yam	OP-16
12:50		<i>Lunch</i>	

Session VI

New technologies for production of planting materials in R&T crops

Tuesday, November 3			
Auditorium A			
Moderators: S. de Haan / C. Carli			
14:20	Lead Lecture: Lutaladio, NeBambi (FAO)	Quality declared planting materials for root and tuber crops	LL-06
14:40		<i>Discussion</i>	
15:00	Landeo, Juan	Novel approaches for promoting and diffusing new potato varieties in Kenya	OP-35
15:20	Peters, Dai	Great lakes cassava initiative: Project overview and progress-to-date	OP-36
15:40		<i>Coffee break</i>	
16:00	de Haan, Stef	Seed procurement of native potatoes in the central Andes of Peru: The role of farmer-to-farmer exchange, markets and seed fairs	OP-37
16:20	Scurrah, María	Are viruses important in native seed systems in Huancavelica, Peru?	OP-38
16:40	Lemaga, Berga	Current status and opportunities for improving the quality and availability of on-farm potato seed in Eastern Africa	OP-39
17:00	Escobar-Pérez, Roosevelt	Use of cassava tissue culture at farmer and industrial level: The Colombian experience	OP-39
17:20		<i>Return</i>	

Session IV

Biotechnology for sustainable development

Tuesday, November 3			
Auditorium B			
Moderators: W. Roca / M. Ghislain			
14:00	Lead Lecture: Fauquet, Claude (Danforth Center)	Modern tools for genetic improvement are now available for cassava, the poor farmer's crop	LL-04
14:20	Invited Speaker: Tohme, Joe (CIAT)	From cassava genomic tools to breeding	IS-01
14:40	Invited Speaker: Ghislain, Marc (CIP)	Potato genomics: Resources and research to contribute to developing country agriculture	IS-02
15:00	Invited Speaker: Schafleitner, Roland (CIP)	Development of genetic resources for breeding improved sweetpotato	IS-03
15:20	Invited Speaker: Conner, Anthony (NZIP&FRL)	Intragenic transformation for genetic improvement of root and tuber crops	IS-04
15:40		<i>Coffee break</i>	
16:00	Kreuze, Jan	Deep sequencing of plant small RNAs: A generic method for diagnosis, discovery and sequencing of viruses	OP-28
16:20	Si, Huaijun	Control of potato tuber dormancy and sprouting by genetic engineering of inorganic pyrophosphatase gene	OP-29
16:40	Bohorquez, Adriana	Isolation of genes differentially expressed during the defense response of cassava (<i>Manihot esculenta</i> Crantz) to whitefly (<i>Aleurotrachelus socialis</i> Bondar) attack	OP-30
17:00	Chavarriga, Paul	Combining biotechnology, molecular genetics and breeding to improve the content of carotenes in cassava roots	OP-31
17:20		<i>Return</i>	

Session IX

Root and tuber crops for feed and industry

Thursday, November 5			
Auditorium A			
Moderators: K. Adebayo / C. León-Velarde			
08:30	Lead Lecture: Ceballos, Hernán (CIAT)	Root and tuber crops for feed and industry	LL-09
08:50		<i>Discussion</i>	
09:10	León - Velarde, Carlos	Potential role of sweet potato to improve smallholder crop-livestock production systems	OP-68
09:30	León - Velarde, Carlos	Searching feeding strategies with sweetpotato silage to improve smallholder crop-livestock production systems in Vietnam	OP-69
09:50	Hongmin, Li	Stability of fermentation carbohydrates in sweetpotato slurry during storage	OP-70
10:10	Sopade, Peter	Kinetics of starch digestion in Australian sweetpotato as affected by particle size	OP-71
10:30		<i>Coffee break</i>	
10:50	Sopade, Peter	Digestibility of starch and potassium in sweetpotato from Papua New Guinea	OP-72
11:10	Beeching, John	Post-harvest deterioration in cassava: From understanding towards control	OP-73
11:30	Dufour, Dominique	Evaluation of altitude cassava for the starch production in Colombia	OP-74
11:50	Ramos- Paredes, Larry	Extraction and characterization of polisacharides of root <i>Lepidium meyenii</i> Walpers. Comparison of a processed product and fresh root after drying and grinding	OP-75

Session VIII

Biofortification and adding value for food and health in R&T crops

Thursday, November 5			
Auditorium B			
Moderators: K. Tomlins / H. Ceballos			
08:30	Lead Lecture: Pfeiffer, Wolfgang H. (Harvest Plus)	Breeding crops for better nutrition	LL-08
08:50	<i>Discussion</i>		
09:10	Invited Speaker: Ceballos, Hernán (CIAT)	Process for increasing carotenoid contents in cassava roots	IS-05
09:30	Invited Speaker: Dixon, B.Maziya (IITA)	Testing retention of pro-vitamin A carotenoid from locally cassava products	IS-06
09:50	Invited Speaker: Tammaharjo, Sherry (Univ. Wisconsin)	Testing the bioavailability of pro- vitamin A carotenoids in biofortified cassava	IS-07
10:10	Invited Speaker: Ospina, Bernardo (CIAT)	Product development and marketing in Brazil and Colombia: Lessons from Agrosalud	IS-08
10:30	<i>Coffee break</i>		
10:50	Invited Speaker: Low, Jan (CIP)	Introduction: Micronutrient malnutrition and health impact of biofortified sweetpotato	IS-09
11:10	Invited Speaker: Mwanga, Robert (CIP)	OFSP varieties for Eastern Africa	IS-10
	Andrade, María (CIP)	OFSP varieties for Southern Africa	IS-11
11:30	Invited Speaker: Attaluri, Sreekanth (CIP)	OFSP varieties for South Asia	IS-12
	Xie, Kaiyun (CIP)	OFSP varieties for East Asia	IS-13
11:50	Invited Speaker: Gruneberg, Wolfgang (CIP)	OFSP varieties for Latin America	IS-14
	<i>General Discussion</i>		
12:10	Rodriguez, Elsa	Consumers preferences for potatoes with quality attributes in Argentina	OP-58

Session VII A

Management of biotic stresses for sustainable intensification of R & T crops

Thursday, November 5			
Auditorium A			
Moderators: M. Andrade / J. Kroschel			
12:10	Lead Lecture: Bellotti, Anthony (CIAT)	Crop- insect interaction using cassava as a model: The road ahead	LL-07
12:30		<i>Discussion</i>	
12:50		<i>Lunch</i>	
14:00	Alcazar, Jesús	Physical barriers control Andean potato weevil (<i>Premnotrypes</i> spp.): Large-scale field testing of efficacy, economic and environmental evaluation and farmers' perception	OP-41
14:20	Cañedo, Verónica	How do insecticides affect potato yield and ecosystem resilience to manage potato pest? An ecological assessment from the central highlands of Peru	OP-42
14:40	Fontem, Dominic	Impact of plant extracts and organic amendments on the growth of <i>Ralstonia solanacearum</i> and severity of potato bacterial wilt	OP-43
15:00	Oswald, Andreas	Using rhizobacteria to improve productivity of potato	OP-44
15:20	Maharjan, Ramesword	Pesticide use practices and awareness among potato growers in Nepal	OP-45
15:40		<i>Coffee break</i>	
16:00	Perez, Wilmer	Control of potato late blight with foliar application of phosphonate	OP-46
16:20	Kadian, Mohinder	Early maturing late blight resistant potato varieties for cereal based system of sub-tropical Indo-Gangetic plains	OP-47
16:40	Demo, Paul	Performance of CIP-derived population B3 potato (<i>Solanum tuberosum</i> L.) clones under Malawi conditions	OP-48
17:00	Schaub, Birgit	Phenology modeling and regional risk assessments for <i>Tecia solanivora</i>	OP-49
17:20		<i>Return</i>	

Session VIII

Biofortification and adding value for food and health in R&T crops

Thursday, November 5			
Auditorium B			
Moderators: K. Tomlins / H. Ceballos			
12:30	de Haan, Stef	The effect of process and environment on the nutritional value of Chuño	OP-59
12:50	<i>Lunch</i>		
14:00	Tumwegamire, Silver	Agronomic and molecular characterization of orange-fleshed East African sweetpotato landraces	OP-60
14:20	Vimala, Bai	Carotenoid retention in yellow – fleshed cassava during processing	OP-61
14:40	Sopade, Peter	Physico-chemical and functional properties of Australian sweetpotato cultivars	OP-62
15:00	zum Felde, Thomas	Screening for total carotenoids, b-carotene, iron, zinc, starch, individual sugars and protein in sweetpotato germplasm accessions by near-infrared reflectance spectroscopy (NIRS)	OP-63
15:20	Tomlins, Keith	Consumer acceptance of bread containing biofortified orange flesh sweet potato	OP-64
15:40	<i>Coffee break</i>		
16:00	Oyunga-Ogubi, Mary	Street foods in Nairobi, Kenya: Their role as a source of micronutrients in low income groups	OP-65
16:20	Roskruge, Nick	The foods of Rongo-marae-roa, sustaining the Maori of New Zealand	OP-66
16:40	Vimala, Bai	Seasonal variation of carotenoids in orange – fleshe sweetpotato (<i>Ipomoea batatas (L) Lam</i>)	OP-67
17:00	<i>Posters</i>		
17:20	<i>Return</i>		

Session XI

Market chain development for root and tuber crops

Friday, November 6			
Auditorium A			
Moderators: D.H Picha / A. Devaux			
08:30	Lead Lecture: Westby, Andrew (UG-ISTR)	Market chain development for tropical root and tuber crops	LL-11
08:50		<i>Discussion</i>	
09:10	Thiele, Graham	Multi-stakeholder platforms for innovation in market chains	OP-83
09:30	Devaux, André	The 'Papa Andina Model' for linking research with pro-poor market innovation	OP-84
09:50	Thomann, Alice	Native potato market chain and poverty reduction: Innovation around corporate social responsibility	OP-85
10:10	Andrade, Jorge	Linking smallholders to the new agricultural economy: An evaluation of the plataforms program in Ecuador	OP-86
10:30		<i>Coffee break</i>	
10:50	Asumugha, Godwin	An analysis of the efficiency of the marketing system for yams in Nigeria	OP-87
11:10	Ordinola, Miguel	Generating innovations for the competitive development of potato in Peru	OP-88
11:30	Picha, David	Sweetpotato export market development to the European Union	OP-89

Session X

Participatory technology development information and innovation systems

Friday, November 6			
Auditorium B			
Moderators: R. Mwangi / M. McEwan			
08:30	Lead Lecture: Ortiz, Ortiz (CIP)	Technological and organizational innovation: evolving paradigms and challenges to promote root and tuber crops for poverty alleviation	LL-10
08:50		<i>Discussion</i>	
09:10	Ashby, Jacqueline	Innovation and experience with participatory plant breeding in Latin America	OP-76
09:30	Nelles, Wayne	Educational innovation for Ugandan capacity development: Lessons from a new OFSP School Book	OP-77
09:50	Loechl, Cornelia	Involving school children in orange-fleshed sweetpotato promotion – Achievements in Kampala	OP-78
10:10	McEwan, Margaret	Out-scaling and up-scaling orange fleshed sweetpotato technologies: the potential role of innovation platforms	OP-79
10:30		<i>Coffee break</i>	
10:50	Mwangi, Robert	Participatory breeding experience and implications for sweetpotato breeding in Uganda	OP-80
11:10	Nandi, Ogodo M.J.	Gender analysis in taro production systems of East Africa	OP-81
11:30	Kuoko, Sebastiani Stephen	Genotype x environment interactions and participatory on-farm selection of sweet potato in the Northern highlands of Tanzania	OP-82

Session VII B

Management of biotics stresses for sustainable intensification of R & T crops

Friday, November 6			
Auditorium A			
Moderators: K. Tomlins / H. Ceballos			
11:50	Andrade, María	Need of breeding orange- fleshed sweetpotato for drought prone regions – using Mozambique as drought prone test environments	OP-50
12:10	Attaluri, Sreekanth	Performance of orange-fleshed sweetpotato genotypes in different agro-ecological regions of India	OP-51
12:30	Bechoff, Aurélie	Understanding losses of pro- vitamin A after drying and storage of orange-fleshed sweetpotato (<i>Ipomea batatas</i>)	OP-52
12:50		<i>Lunch</i>	
14:00	Cuellar, Wilmer	Molecular studies on the Sweetpotato Virus Disease (SPVD)	OP-53
14:20	Labarta, Ricardo	The introduction of the orange fleshed sweetpotato on the agricultural farming system of central Mozambique: The opportunity cost of growing this nutritious crop	OP-54
14:40	Stevenson, Philip	Reduced oviposition and feeding on the root surfaces of sweetpotato by <i>Cylas puncticollis</i> and <i>C. brunneus</i> caused by the presence of hexadecylesters of coumaric caffeic acid	OP-55
15:00	Cosio, Eric	Fast analysis of maca bioactive compounds for ecotype characterization and export quality control	OP-56
15:20	Gonzales, Patricia	Crop protection by volatile organic compounds from mashua: What we can learn from ancient agricultural techniques	OP-57
15:40		<i>Coffee break</i>	
16:00		<i>Posters</i>	
16:20		<i>Posters</i>	
16:40		<i>Posters</i>	
17:00		<i>Posters</i>	
17:20		<i>Return</i>	

Session XII

Adaptation of root and tuber crop system and mitigation of climate change

Friday, November 6			
Auditorium B			
Moderators: M.D Akoroda / R. Quiroz			
11:50	Lead Lecture: Jarvis, Andrew (CIAT)	Global impacts of climate change on root and tuber crops: What to expect and what to do about it?	LL-12
12:10	<i>Discussion</i>		
12:30	Akoroda, Malachy O.	Root and tuber crops for surviving climatic changes	OP-90
12:50	<i>Lunch</i>		
14:00	Cruz, Mariana	Visual representation of the vulnerability of potato based systems to climate extremes	OP-91
14:20	Chandra, Satish	Tropical root crops: The impact of climate change on future production and utilization in the South Pacific Island Countries	OP-92
14:40	Claessens, Lieven	<i>Ex ante</i> assessment of climate change adaptation strategies in resource-poor countries: Study cases from East Africa	OP-93
15:00	Zorogastúa, Percy	Utilization of high-resolution satellite images to improve the statistics of sweetpotato cultivated area in the district of Kumi, Uganda	OP-94
15:20	Xie, Kaiyun	Increasing production and farmers' income in the rice-potato systems of China	OP-95
15:40	<i>Coffee break</i>		
16:00	Quiroz, Roberto	Comparative assessment of soil carbon stocks in different agroecologies in Southern Peru	OP-96
16:20	<i>Posters</i>		
16:40	<i>Posters</i>		
17:00	<i>Posters</i>		
17:20	<i>Return</i>		