



Session I

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

Poster presentations

- PP-01 *Devaux, André* Developing a strategic vision for the potato in the Andean region
- PP-02 *Rodríguez, Elsa* Good agricultural practices: The case of potato production in the Southeast province of Buenos Aires. Argentina

Session II

Genetic resources, conservation and utilization

Poster presentations

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| PP-03 | <i>Biondi, Jorge</i> | Molecular characterization of the <i>Oxalis tuberosa</i> Mol. collection maintained in the CIP's genebank |
| PP-04 | <i>Salas, Alberto</i> | <i>Solanum</i> sect. Petota: The wild potatoes of the Republic of Ecuador |
| PP-05 | <i>Centeno, Ruth</i> | Effects of pesticides on the expression of reproductive traits of wild potato species |
| PP-06 | <i>Brenes, Arturo</i> | The wild potato relatives in Costa Rica: Collecting, conservation and characterization |
| PP-07 | <i>Simon, Reinhard</i> | An online database infrastructure for integrated retrieval and analysis of passport, characterization and evaluation data of genebank and breeding materials |
| PP-08 | <i>Antezana, Ivonne</i> | Preserving biodiversity of Andean roots and tubers: Working with women |
| PP-09 | <i>Escobar-Pérez, Roosevelt</i> | Cryopreservation techniques for the long-term conservation of cassava genetic resources |
| PP-10 | <i>Ceballos, Hernán</i> | Developing the concept of genetic stocks in cassava |
| PP-11 | <i>Ceballos, Hernán</i> | Variation in starch and root quality traits in cassava |
| PP-12 | <i>Biondi, Jorge</i> | Genetic diversity of arracacha (<i>Arracacia xanthorrhiza</i>) in Peru |
| PP-13 | <i>Palapala, Valerie</i> | Morpho-agronomic characterization of Lake Victoria Basin taro genotypes |
| PP-14 | <i>Grau, Alfredo</i> | Morphological and biochemical variability in the genus <i>Smallanthus</i> |
| PP-15 | <i>Clavijo Neidy</i> | Participatory design of sustainable alternatives for managing and conservation of agro-diversity of Andean tubers in Márquez, department of Boyacá, Colombia |
| PP-16 | <i>Alercia, Adriana</i> | Contribution of information standards to developing networks and providing access to plant genetic resources |
| PP-17 | <i>Díaz, Federico</i> | Genetic diversity of a representative group of the germplasm world of sweetpotato determined by SSRs markers |
| PP-18 | <i>Favoretto, Patricia</i> | Molecular characterization of commercial cultivars of potato using SSR markers |

Session III

Crop improvement for sustainable intensification of root and tuber crops

Poster presentations

PP-19	<i>Kadian, Mohinder</i>	Breeding for the future: Assessing farmers' preferences for potato varieties in heat-prone Gujarat, India
PP-20	<i>Barreda, Carolina</i>	Estimating potato behavior under controlled and field conditions using conventional modeling techniques and parameterization using remotely sensed data
PP-21	<i>Porras, Carolina</i>	Agronomic characterization of sexual hybrids of potato (<i>Solanum tuberosum</i>) in Costa Rica
PP-22	<i>Palta, Jiwan</i>	Supplemental calcium nutrition may have the potential of improving tuber yield of native potatoes in the Peruvian highlands
PP-23	<i>Vicente, Carlos</i>	New sweetpotato cultivars from INIA's breeding project in Uruguay
PP-24	<i>Huamani, Kelvin</i>	Detection of a quantitative inherited resistance to SPCSV by crossing DLP3163 with OFSP clones from the population Jewel I
PP-25	<i>Rasoloniaina, M. Bruno</i>	Orange-fleshed sweet potatoes varieties enhancement, one of the adopted strategies to alleviate malnutrition in Madagascar
PP-26	<i>Ceballos, Hernán</i>	Correction for missing plants in cassava evaluation trials
PP-27	<i>Ceballos, Hernán</i>	Initial description of a mutation affecting plant architecture in cassava
PP-28	<i>Sartie, Alieu</i>	Tuber maturity in yams (<i>Dioscorea</i> spp.)
PP-29	<i>Simon, Reinhard</i>	Agricolae – a free statistical toolbox for agricultural experiments
PP-30	<i>Zhang, Youngcheng</i>	Selection and verification of mathematic models for WGH-MELD cultivating in potatoes

Session IV

Biotechnology for sustainable development

Poster presentations

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| PP- 31 | <i>Rivera Cristina</i> | Genetic transformation of potato cultivars using the RB gene to increase resistance to late blight disease |
| PP- 32 | <i>Solís, Julio</i> | New SSR markers for sweetpotato from data mining of expressed sequence tags (ESTs) |
| PP- 33 | <i>Ghislain, Marc</i> | Transfer of sweetpotato-like genes expressing Cry proteins into sweetpotato varieties |
| PP- 34 | <i>Zhang, Peng</i> | Gene expression profiling of developing cassava storage and its starch quality improvement by genetic engineering |
| PP- 35 | <i>Agili, Sammy</i> | <i>In vitro</i> screening of Sweetpotato (<i>Ipomoea batatas</i>) genotypes for drought resistance using polyethylene glycol |
| PP- 36 | <i>Lindqvist-Kreuze, Hannele</i> | Molecular assisted assessment of late blight resistance in potato |
| PP- 37 | <i>Chavarriaga, Paul</i> | Structural and functional characterization of an <i>Ipomoea batatas</i> Phytoenen Synthase gene |
| PP- 38 | <i>Manrique, Sandra</i> | Screening for regeneration and transformation efficiencies of African sweetpotato cultivars |
| PP- 39 | <i>Solís, Julio</i> | Insilico prediction and characterization of microRNAs from sweetpotato [<i>Ipomoea batatas</i> (L.) Lam.] |
| PP- 40 | <i>Ceballos, Hernán</i> | Identification of regions of cassava genome associated with increased carotenoids content in the roots |
| PP-41 | <i>Siqueira, Marcos</i> | Protocol for amplification by transferability of micro satellite markers in <i>Dioscorea bulbifera</i> |
| PP- 42 | <i>Siqueira, Marcos</i> | Genetic variability in commercial varieties of water yam (<i>Dioscorea alata</i>) with microsatellites markers |

Session V

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

Poster presentations

- PP- 43 *Quiroz, Roberto* Early detection of drought stress in potato (*Solanum tuberosum* L.) and grapevine (*Vitis vinifera* L.) crops through multifractal analysis applied on remotely sensed data
- PP- 44 *Sako, Henry* Factors related to potato productivity
- PP- 45 *Solís, Julio* The effect of water on storage root initiation in sweetpotato
- PP- 46 *Eyzaguirre, Raúl* The use of sweetpotato mega-clones to identify sweetpotato mega-environments
- PP- 47 *Legay, Sylvain* Identification of physiological and molecular drought tolerance traits in potato

Session VI

New technologies for production of planting materials in root and tuber crops

Poster presentations

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| PP- 48 | <i>Carli, Carlo</i> | An improved method to produce rooted seedlings from TPS (True Potato Seed) tested in the highlands of Uzbekistan |
| PP-49 | <i>Andrade, Jorge</i> | Diagnostic of seed potato systems in Bolivia, Ecuador and Peru, focusing on native varieties |
| PP- 50 | <i>Yactayo, Wendy</i> | Effect of partial root-zone drying on the growth of potato plants under greenhouse conditions |
| PP- 51 | <i>Kadian, Mohinder</i> | Improving farmer based seed system in sub-tropical highlands of Nagaland, India |

Session VII

Management of biotics stresses for sustainable intensification of root and tuber crops

Poster presentations

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| PP- 52 | <i>Calvo, Pamela</i> | Microbiotic biodiversity and their functionality in roots and rhizosphere of potato plants |
| PP- 53 | <i>Quiroz, Roberto</i> | Assessing Potato Yellow Vein Virus (PYVV) infection using remotely sensed data and multifractal analysis |
| PP- 54 | <i>Manrique, Kurt</i> | Muña (sp. <i>Minthostachis mollis</i>) essential oil, as a natural alternative to control potato sprouting tested under different storage conditions |
| PP- 55 | <i>Gamarra, Heydi</i> | Potato Yellow Vein Virus: A model for emerging potato diseases and climate change |
| PP-56 | <i>Gamboa, Soledad</i> | Monitoring changes in <i>Phytophthora</i> populations in developing countries using microsatellites and the <i>Phytophthora.exe</i> database |
| PP- 57 | <i>Schulte-Geldermann, Elmar</i> | Effect of suppressive composts and initial seed tuber infection on <i>Rhizoctonia solani</i> in organic potato production |
| PP- 58 | <i>Kakuhenzire, Rogers</i> | Relationships among late blight epidemic descriptors and use of planting date as a disease escape strategy in the potato farming system of South Western Uganda |
| PP-59 | <i>Gómez, Luis</i> | A PCR-RFLP assay for detection of <i>Pythium myriotylum</i> , the causal agent of cocoyam root rot disease |
| PP-60 | <i>Sharma, Kamal</i> | Molecular characterization of <i>Colletotrichum gloeosporioides</i> responsible for anthracnose of yam and cassava in Nigeria, and development a diagnostic PCR assay |
| PP- 61 | <i>Maharjan, Rameswor</i> | Efficacy of botanicals against the potato tuber moth (<i>Phthorimaea operculella</i>) in Farmer's potato storerooms in Nepal and Bhutan |
| PP- 62 | <i>Mujica, Norma</i> | Temperature-dependent development of three parasitoids of the leafminer fly <i>Liriomyza huidobrensis</i> |
| PP- 63 | <i>Raymundo, Rubi</i> | Estimating potential impact of potato late blight resistant varieties in China with GIS |
| PP- 64 | <i>Fuentes, Segundo</i> | Molecular variability of sweet potato feathery mottle virus and other potyviruses infecting sweet potato in Peru |
| PP- 65 | <i>Fuentes, Segundo</i> | <i>Bemisia afer sensu lato</i> , a vector of sweet potato chlorotic stunt virus |
| PP- 66 | <i>Korieocha, D.S.</i> | Effect of time of herbicide application and sweetpotato morphotypes on the effectiveness of herbicide on weeds |

- PP- 67 *Korada, Rajasekhara Rao* Organic management of corm borer *Haplosonyx chalybaeus* (Hope) - A Serious insect pest of colocasia in North Eastern India
- PP- 68 *Picado, Ivania* Phylogenetic analysis of *Pythium myriotylum* isolates from cocoyam and other host crops based on cytochrome oxidase I & II and α -Tubulin gene sequences
- PP-69 *Sporleder, Marc* ILCYM- Insect Life Cycle Modeling: Software for developing temperature-based insect phenology models with applications for regional and global pest risk assessments and mapping
- PP- 70 *Kowalski, Britta* Soluble chitosan applied as potato seed tuber treatment and foliar sprays under subtropical and temperate conditions-effect on yield parameters and disease incidence

Session VIII

Biofortification and adding value for food and health in root and tuber crops

Poster presentations

PP- 71	<i>Burgos, Gabriela</i>	Concentration of vitamin C, carotenoids and polyphenolics in cooked potatoes
PP- 72	<i>Burgos, Gabriela</i>	Using a color chart to screen for high β -carotene in OFSP breeding
PP- 73	<i>Eyzaguirre, Raúl</i>	Selection limits for dry matter, β -carotene, iron and zinc in low dry matter orange flesh sweetpotatoes (OFSP) using a 8 x 8 diallel
PP- 74	<i>Gruneberg, Wolfgang</i>	Dialelic analysis of sweetpotato clones for yield and concentration of carotene, iron and zinc
PP- 75	<i>Lukonge, Everina</i>	Current status of orange-fleshed sweetpotato breeding in Tanzania
PP- 76	<i>Namutebi, Agnes</i>	Darkening in open-air sun dried orange-fleshed sweetpotato products being promoted for their high pro-vitamin A carotenoid content
PP- 77	<i>Ndiringue, Jean</i>	Relationship among yield components of eight introduced yellow and orange fleshed sweetpotato in Rwanda
PP- 78	<i>Ndolo, Phillip</i>	Agronomic performance of regional popular orange-fleshed sweetpotato (<i>Ipomoea batatas</i> (L.) Lam) cultivars in Kenya
PP- 79	<i>Ssemakula, Gorrettie</i>	Release and diffusion orange sweetpotato cultivars, 'NASPOT 9 O', 'NASPOT 10 O' in Uganda
PP- 80	<i>Habib, Natalia</i>	Endogenous glucagon-like peptide-1 (GLP-1) on lipid-lowering effect of yacon roots in diabetic rats
PP- 81	<i>Ceballos, Hernán</i>	Heritability estimates of carotenoid content in cassava roots
PP- 82	<i>Ceballos, Hernán</i>	Variation in carotenoid content in roots from the same plant and plants from the same cassava genotype
PP- 83	<i>Ceballos, Hernán</i>	Progress in developing a system for direct and simple measurement of protein content in cassava roots
PP- 84	<i>Ceballos, Hernán</i>	Effect of age of the plant in total carotenoids content in cassava roots
PP- 85	<i>Ceballos, Hernán</i>	Agronomic biofortification to improve nutritional quality of cassava roots

- PP- 86 *Honoré, Stella M.* Protective effect of yacon leaves extracts against nephropathy induced by experimental diabetes in rats
- PP- 87 *Mukantwali, Christine* Development of quality cereal based composite flour for nutritionally vulnerable children using locally available raw material

Session IX

Root and tuber crops for feed and industry

Poster presentations

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| PP- 88 | <i>Dufour Dominique</i> | Characterization of the physico-chemical structure of starch from native potatoes of group <i>Solanum phureja</i> |
| PP- 89 | <i>Pandey, S. Kumar</i> | Indian potato processing industry: Strengths, weaknesses and business opportunities |
| PP- 90 | <i>Ceballos, Hernán</i> | Comparison of functional properties of normal and amylose-free starches from different crops |
| PP- 91 | <i>Carpio, Rossemary</i> | Evaluation of bread made with sweetpotato flour |
| PP- 92 | <i>Adebayo, Kolawole</i> | Potential adoption of the cassava peeling machine in Southwest Nigeria |
| PP- 93 | <i>Hell, Kerstin</i> | Fungal and insect contamination of yam and cassava chips in Benin |
| PP- 94 | <i>Sheriff, J.Thajudhin</i> | Extrusion characteristics of cassava and coconut powder blends |
| PP- 95 | <i>Ceballos, Hernán</i> | Characterization of amylose-free and high-amylose starch mutations in cassava |
| PP- 96 | <i>Ceballos, Hernán</i> | Identification of different sources for tolerance to post-harvest physiological deterioration in cassava |
| PP- 97 | <i>Ceballos, Hernán</i> | Identification and characterization of three different sources of sugary cassava genotypes |
| PP- 98 | <i>Oduro, Ibok</i> | Inhibition of enzymatic browning in <i>Dioscorea alata</i> chips using natural anti-browning agents |
| PP- 99 | <i>Oduro, Ibok</i> | Suitability of water yam (<i>Dioscorea alata</i>) in the production of couscous |
| PP- 100 | <i>Oduro, Ibok</i> | Glucose syrup from yam starch using rice malt as the source of enzymes |

Session X

Participatory technology development information and innovation systems

Posters presentations

PP-101	<i>de Haan, Stef</i>	The LatinPapa Network: A platform for pro-poor potato improvement and varietal dissemination
PP-102	<i>Sharma, Buddhi</i>	Farmers' empowerment on potato disease management through participatory research in Nepal
PP-103	<i>Antezana, Ivonne</i>	Gender relationships in production and commercialization of potato seed with small-scale farmers in the Central Andes of Ecuador
PP-104	<i>Chipungu, Felistas P.</i>	Soliciting farmers' concerns for breeding and increased adoption of orange-fleshed sweetpotato varieties in Malawi
PP-105	<i>Orrego, Ricardo</i>	Scaling-up of Farmers Field School (FFS) in Peru. CIP's contribution to the process

Session XI

Market chain development for root and tuber crops

Posters presentations

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| PP-106 | <i>Fonseca, Cristina</i> | Promoting innovations in the Peruvian Altiplano: The case of Tunta, an ancestral product |
| PP-107 | <i>Velasco, Claudio</i> | Supporting innovation for linking small scale farmers to market: The case of the Bolivian Andean Platform |

Session XII

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

Posters presentations

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|---------|----------------------------|---|
| PP- 108 | <i>Luo, Wenbin</i> | A new culture technique for winter potato in South China |
| PP- 109 | <i>Oswald, Andreas</i> | Minimum tillage systems with winter-potato in Southern China |
| PP- 110 | <i>Yarleque, Christian</i> | Improving daily rainfall estimation from NDVI using Wavelet transform |
| PP- 111 | <i>Raymundo, Rubí</i> | Improving targeting of potato producing areas with process-based modeling |