

<b>Poster Programme</b>
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**Poster Session 1**

**4<sup>th</sup> December 2017- 17:15-18:45**

<b>[P1.001]</b>	<b>Decision support applications in grain production for targeted commercial broiler feeding in the southern district of Botswana</b> M.D. Ramakoloi-Moremi*, E.M. Chimbombi, J.C. Moreki, <i>Botswana University of Agriculture and Natural Resources, Botswana</i>
<b>[P1.002]</b>	<b>Farmers' use of soil and water conservation practices: Implications for sustainable agricultural production in Anambra state, Nigeria</b> I.Q. Anugwa*, A.E. Agwu, A.R. Ezeh, <i>University of Nigeria Nsukka, Nigeria</i>
<b>[P1.003]</b>	<b>The water-energy-food nexus as an approach for sustainable advancement of food security in southern Africa</b> T. Mabhaudhi* <sup>1</sup> , N.S. Mpandeli <sup>2</sup> , L. Nhamo <sup>3</sup> , V.G.P. Chimonyo <sup>4</sup> , A. Madhlopa <sup>5</sup> , G.R. Backeberg <sup>2</sup> , A.T. Modi <sup>1</sup> , <sup>1</sup> <i>University Of KwaZulu-Natal, South Africa</i> , <sup>2</sup> <i>Water Research Commission, South Africa</i> , <sup>3</sup> <i>International Water Management Institute, South Africa</i> , <sup>4</sup> <i>Michigan State University, USA</i> , <sup>5</sup> <i>University of Cape Town, South Africa</i>
<b>[P1.004]</b>	<b>Effect of deficit irrigation on yield, and phytochemical composition in two lettuce (<i>Lactuca sativa</i> L.) varieties at harvest</b> D.M. Malejane <sup>1</sup> , P.P. Tinyane* <sup>1</sup> , P. Soundy <sup>1</sup> , D. Sivakumar <sup>1</sup> , <sup>1</sup> <i>Tshwane University Of Technology, South Africa</i> , <sup>2</sup> <i>Tshwane University Of Technology, South Africa</i> , <sup>3</sup> <i>Tshwane University Of Technology, South Africa</i> , <sup>4</sup> <i>Tshwane University Of Technology, South Africa</i>
<b>[P1.005]</b>	<b>Blue and white coloured shade nets improves the phytonutrients in 'Hass' avocados and at ready to eat stage</b> P.P. Tinyane*, P. Soundy, D. Sivakumar, <i>Tshwane University Of Technology, South Africa</i> ,
<b>[P1.006]</b>	<b>Impact assessment of the Siyazondla homestead food production programme in improving household food security of selected households in the Amathole district, Eastern Cape</b> B.P. Kubheka*, F. Veldman, <i>University of Kwazulu Natal, South Africa</i>
<b>[P1.007]</b>	<b>Achieving zero hunger in Ethiopia: Towards a rights-based approach to food and nutrition security</b> H.A. Tura, <i>University of Eastern Finland Law School, Finland</i>
<b>[P1.008]</b>	<b>The status, determinants and pathways for sustainable intensification of African smallholder farming systems</b> B. Brown* <sup>1,2</sup> , I. Nuberg <sup>1</sup> , R. Llewellyn <sup>2</sup> , <sup>1</sup> <i>University of Adelaide, Australia</i> , <sup>2</sup> <i>CSIRO, Australia</i>
<b>[P1.009]</b>	<b>Can smallholder farmers increase legume intensification in malawi? relevance and beliefs of its attributes</b> P.S. Kamanga* <sup>1</sup> , I.K. Nuberg <sup>1</sup> , G. Kuehne <sup>2</sup> , <sup>1</sup> <i>The University of Adelaide, Australia</i> , <sup>2</sup> <i>Meaningful Research, Australia</i>
<b>[P1.010]</b>	<b>An expert based farm typology for targeting ecological intensification to improve food security in smallholder farmers: A case of Limpopo, South Africa</b> F. Rusere*, O. Crespo, <i>University of Cape Town, South Africa</i>
<b>[P1.011]</b>	<b>Empowering women in agriculture: Results and lessons learned from implementing a practical approach in West Africa</b> S. Nordhagen, <i>Helen Keller International, Senegal</i>
<b>[P1.012]</b>	<b>Site specific fodder management decision support system development for <i>Lespedeza Cuneata</i> production</b> T.H. Terrill* <sup>1</sup> , S.S. Panda <sup>2</sup> , J.A. Van Wyk <sup>3</sup> , <sup>1</sup> <i>Fort Valley State University, USA</i> , <sup>2</sup> <i>University of North Georgia, USA</i> , <sup>3</sup> <i>University of Pretoria, South Africa</i>
<b>[P1.013]</b>	<b>Towards seasonal crop forecast information services for world food agencies</b> T. Iizumi* <sup>1</sup> , Y. Shin <sup>2</sup> , W. Kim <sup>1</sup> , J. Choi <sup>2</sup> , M. Kim <sup>2</sup> , <sup>1</sup> <i>National Agriculture and Food Research Organization, Japan</i> , <sup>2</sup> <i>APEC Climate Center, Republic of Korea</i>
<b>[P1.014]</b>	<b>Delivering sustainable intensification in the Brazilian Amazon</b> E.K.H.J. zu Ermgassen* <sup>1</sup> , A. Latawiec <sup>2</sup> , B.B.N. Strassburg <sup>2</sup> , A. Lees <sup>3</sup> , A. Balmford <sup>1</sup> , <sup>1</sup> <i>University of Cambridge, UK</i> , <sup>2</sup> <i>International Institute of Sustainability, Brazil</i> , <sup>3</sup> <i>Manchester Metropolitan University, UK</i>
<b>[P1.015]</b>	<b>Gender specific livelihood strategies for coping with climate induced food insecurity in Southeast Nigeria</b>

	I.Q. Anugwa* <sup>1</sup> , A.E. Agwu <sup>1</sup> , M. Suvedi <sup>2</sup> , S. Babu <sup>3</sup> , <sup>1</sup> University of Nigeria, Nsukka, Nigeria, <sup>2</sup> Michigan State University, USA, <sup>3</sup> International Food Policy Research Institute, USA
[P1.016]	<b>Sustainable Agriculture Kits (SAKs) as a strategy to scale up agriculture technologies for improving livelihoods of smallholder farmers in Nepal</b> R. Pudasaini* <sup>1</sup> , T. Chapagain <sup>2</sup> , K. Khadka <sup>2</sup> , K. Patel <sup>3</sup> , R.B. Rana <sup>1</sup> , M.N. Raizada <sup>2</sup> , <sup>1</sup> Local Initiatives for Biodiversity, Research and Development, Nepal, <sup>2</sup> University of Guelph, Canada, <sup>3</sup> Mr., Nepal
[P1.017]	<b>Utilization of paddy straw derived biochar and different rates of Nitrogen fertilizer for rice food security</b> I. Mohd Razi* <sup>1</sup> , M. Martini <sup>1</sup> , I. Roslan <sup>1</sup> , L. Lai <sup>1</sup> , <sup>1</sup> University Putra Malaysia, Malaysia, <sup>2</sup> Department of Agriculture, Myanmar
[P1.018]	<b>A clathrin assembly protein from <i>Arabidopsis thaliana</i> possesses adenylate cyclase activity and has a role in biotic stress factors</b> O. Ruzvidzo, North-West University, South Africa
[P1.019]	<b>Targeted and untargeted metabolomics approach to characterize conventional and transgenic high Beta-Carotene Cassava (<i>Manihot esculenta</i>) varieties</b> N. Edoh* <sup>1,2</sup> , G. Duguma <sup>1</sup> , J. Igoli <sup>2,4</sup> , U. Ukpabi <sup>2,3</sup> , N. Taylor <sup>1</sup> , B. Evans <sup>1</sup> , <sup>1</sup> Donald Danforth Plant Science Center, St. Louis, Missouri, USA, <sup>2</sup> Center for Food Technology and Research, Benue State University Makurdi, Nigeria, <sup>3</sup> National Root Crops Research Institute, Umudike, Nigeria, <sup>4</sup> University of Agriculture Makurdi, Nigeria
[P1.020]	<b>The 'promiscuous' soybean varieties for the future of Africa's soybean production</b> E.E. Agoyi* <sup>1,4</sup> , G. Chigeza <sup>2</sup> , J.B. Tumuhairwe <sup>1</sup> , P. Tukamuhabwa <sup>1</sup> , B.W. Diers <sup>3</sup> , <sup>1</sup> Makerere University, Uganda, <sup>2</sup> International Institute of Tropical Agriculture, Zambia, <sup>3</sup> University of Illinois, USA, <sup>4</sup> University of Abomey-calavi, Benin
[P1.021]	<b>Useful variability induced by chemical mutagenesis in tepary bean (<i>Phaseolus acutifolius</i>)</b> A. Thangwana <sup>1</sup> , E.T. Gwata* <sup>1</sup> , <sup>1</sup> University of Venda, South Africa, <sup>2</sup> University of Venda, South Africa
[P1.022]	<b>New evidence showing that yield quantity has a small effect on nutritional quality under varying resource availabilities in common bean</b> M.R. Smith* <sup>1</sup> , A. Merchant <sup>1</sup> , E. Veneklaas <sup>2</sup> , I.M. Rao <sup>3</sup> , <sup>1</sup> The University of Sydney, Australia, <sup>2</sup> The University of Western Australia, Australia, <sup>3</sup> International Centre for Tropical Agriculture, Colombia
[P1.023]	<b>Promoting traditional leafyvegetables production through fertilizer micro-dosingtechnology as strategy to combat malnutrition in Benin, West Africa</b> A. Adjogboto* <sup>1</sup> , P.B.I. Akponikpe <sup>1</sup> , A.J. Djenontin <sup>1</sup> , M.N. Baco <sup>1</sup> , C.N.V. Sossa <sup>1</sup> , D.D. Likpete <sup>1</sup> , K.E. Agbossou <sup>1,2</sup> , <sup>1</sup> University of Parakou, Benin, <sup>2</sup> University of Abomey-Calavi, Benin
[P1.024]	<b>Effect of Bradyrhizobium-inoculation on nitrogen fixation and micronutrient accumulation in shoots and grains of field-grown soybean genotypes</b> G.C. Mbah*, C. Mathews, F.D. Dakora, Tshwane University of Technology, Pretoria, South Africa
[P1.025]	<b>Effect of woody tree species on soil nutrients improvement in millet based systems of the Sahelian Niger</b> M.B. Diallo* <sup>1</sup> , P.I.B. Akponikpe <sup>1</sup> , D. Fatondji <sup>1</sup> , A. Toudjani <sup>1</sup> , E.K. Agbossou <sup>1</sup> , <sup>1</sup> University of Parakou, Benin, <sup>2</sup> ICRISAT, Niger, <sup>3</sup> INRAN, Niger, <sup>4</sup> Abomey-calavi University, Benin
[P1.026]	<b>Water use efficiency of <i>Amaranthus cruentus</i> under microdose fertilization and different weather conditions in Benin (West Africa)</b> D.D. Likpete* <sup>1</sup> , P.B.I. Akponikpe <sup>1</sup> , A.J. Djenontin <sup>1</sup> , M.N. Baco <sup>1</sup> , C.N. Sossa <sup>1</sup> , A. Adjogboto <sup>1</sup> , E.K. Agbossou <sup>2</sup> , <sup>1</sup> Université de Parakou, Benin, <sup>2</sup> Université d'Abomey-calavi, Benin
[P1.027]	<b>Paying it forward through small livestock and orange-fleshed sweet potatoes</b> A. Hasham, W. Mollel*, P. Malunde, Africare Tanzania - Mwanzo Bora Nutrition Program, Tanzania
[P1.028]	<b>Does gender-sensitive agricultural intervention improve food security and profit efficiency?</b> T. Bocher* <sup>1</sup> , K. Sindi <sup>3</sup> , J. Nshimiyimana <sup>3</sup> , T. Muzhingi <sup>2</sup> , J. Low <sup>2</sup> , <sup>1</sup> International Potato center, Mozambique, <sup>2</sup> International Potato center, Kenya, <sup>3</sup> International Potato center, Rwanda
[P1.029]	<b>Comparative analysis of the antioxidant responses to drought and salt stress in two contrasting wheat genotypes</b> A. Majola, K. Phillips, G. Mohamed, A. Klein, N. Ludidi*, University of the Western Cape, South Africa
[P1.030]	<b>Food security impacts from the adoption of dry season hybrid and HYV rice production in Bangladesh</b> A.M. Shew* <sup>1</sup> , A. Ghosh <sup>2</sup> , A. Durand-Morat <sup>1</sup> , L.L. Nalley <sup>1</sup> , <sup>1</sup> University of Arkansas, USA, <sup>2</sup> University of California, Davis, USA
[P1.031]	<b>Measuring food security in smallholder systems: A harmonized approach linking agriculture, livelihoods, and welfare</b>

	M.T. van Wijk* <sup>1</sup> , J. Hammond <sup>2</sup> , <sup>1</sup> International Livestock Research Institute, Kenya, <sup>2</sup> World Agroforestry Centre, Kenya, <sup>3</sup> Bangor University, UK
[P1.032]	<b>Genomic diversity among plant pathogenic xanthomonas species from africa: Implications for resistance breeding decisions</b> M.O. Jibrin* <sup>1,3</sup> , P.D. Roberts <sup>1</sup> , G.V. Minsavage <sup>1</sup> , N. Potnis <sup>2</sup> , G.E. Vallad <sup>1</sup> , E.M. Goss <sup>1</sup> , J.B. Jones <sup>1</sup> , <sup>1</sup> University of Florida, USA, <sup>2</sup> Auburn University, USA, <sup>3</sup> Ahmadu Bello University, Nigeria
[P1.033]	<b>The role of organic soil amendments in enhancing food security for resource-poor rural farmers in the Eastern Cape</b> Z. Ngeva*, M.A.T. Poswal, <i>Dohne Agricultural Development Institute, South Africa</i>
[P1.034]	<b>Farmers' choices of adopting and coupling strategies of sustainable intensification - evidence from European farm level data</b> M. Weltin*, I. Zasada, <i>Leibniz Centre for Agricultural Landscape Research, Germany</i>
[P1.035]	<b>Blueprint of a generic framework for assessing sustainability of low-input ruminants' production systems in developing countries</b> T. Marandure* <sup>1</sup> , G. Makombe <sup>2</sup> , K. Dzama <sup>1</sup> , W. Hoffmann <sup>1</sup> , C. Mapiye <sup>1</sup> , <sup>1</sup> Stellenbosch University, South Africa, <sup>2</sup> University of Pretoria, South Africa
[P1.036]	<b>A comparative proteomic analysis of sorghum and maize under drought stress using a label-free proteomic technique</b> L.H.H. Hüsselman* <sup>1,2</sup> , A.E. Molah <sup>1</sup> , D. Tabb <sup>3</sup> , A.J. Klein <sup>1</sup> , M. Keyster <sup>1</sup> , N.N. Ludidi <sup>1</sup> , <sup>1</sup> University of the Western Cape, South Africa, <sup>2</sup> Agricultural Research Council, Infruitec Campus, Stellenbosch, South Africa, <sup>3</sup> Stellenbosch University, South Africa
[P1.037]	<b>Vaccines for livestock development: Farmer knowledge, attitudes and practices</b> A. Habiyaremye <sup>1</sup> , M. Maziya <sup>1</sup> , Z. Mdlulwa <sup>2</sup> , M. Masemola <sup>2</sup> , P. Chaminuka* <sup>2</sup> , <sup>1</sup> Human Science Research Council, South Africa, <sup>2</sup> Agricultural Research Council, South Africa
[P1.038]	<b>Livestock vaccines to mitigate vulnerability of smallholder livestock production in South Africa: A cost-benefit analysis.</b> Z. Mdlulwa*, M. Masemola, P. Chaminuka, S. Madyo, T. Nevondo, <i>Agricultural Research Council, South Africa</i>
[P1.039]	<b>In the shadow of tree-crops: exploring the expanding commodification of tree-crops amongst smallholders and the impacts on food production</b> M.J. Olofsson, <i>University of Amsterdam, South Africa</i>
[P1.040]	<b>Community milpa (native maize) system improvement in an indigenous community of Oaxaca, Mexico</b> T.E. Martinez-Cruz* <sup>1</sup> , C. Almekinders <sup>1</sup> , T.C. Camacho-Villa <sup>2</sup> , <sup>1</sup> Wageningen University, The Netherlands, <sup>2</sup> International Maize and Wheat Improvement Center, Mexico
[P1.041]	<b>Climate smart agriculture, food security, and welfare impacts of watershed development for climate resilience in southern Malawi: An ex-post impact evaluation</b> F.O. Amadu* <sup>1</sup> , P.E. McNamara <sup>1</sup> , D.C. Miller <sup>1</sup> , <sup>1</sup> University of Illinois, USA, <sup>2</sup> University of Illinois, USA, <sup>3</sup> University of Illinois, USA
[P1.042]	<b>Satellite-based index insurance for drought mitigation: the importance of image timing</b> A. Vrieling* <sup>1</sup> , F. Fava <sup>2</sup> , M. Meroni <sup>3</sup> , C.A.J.M. de Bie <sup>1</sup> , L.H. De Oto <sup>1</sup> , A.G. Mude <sup>2</sup> , A.D. Nelson <sup>1</sup> , <sup>1</sup> University of Twente, The Netherlands, <sup>2</sup> International Livestock Research Institute, Kenya, <sup>3</sup> Joint Research Centre, Italy
[P1.043]	<b>The level of women farmers' participation in agricultural innovation process and the implication on food security in Ethiopia</b> A. Mulema* <sup>1</sup> , W. Jogo <sup>2</sup> , E. Damtew <sup>3</sup> , K. Mekonnen <sup>4</sup> , P. Thorne <sup>5</sup> , <sup>1</sup> International Livestock Research Institute, Ethiopia, <sup>2</sup> International Potato Center, Ethiopia, <sup>3</sup> Wageningen Universiteit, The Netherlands, <sup>4</sup> International Livestock Research Institute, Ethiopia, <sup>5</sup> International Livestock Research Institute, Ethiopia
[P1.044]	<b>Rising households and falling households: welfare, livelihoods and agricultural practices in an East African panel survey</b> J.A.R. Hammond* <sup>1,3</sup> , T. Pagella <sup>1,3</sup> , M.T. van Wijk <sup>2</sup> , <sup>1</sup> ICRAF, Kenya, <sup>2</sup> ILRI, Kenya, <sup>3</sup> Bangor University, UK
[P1.045]	<b>Analysis of a crop models ensemble response to adaptation measures under climate change using ARS</b> J. Krzyszczak*, P. Baranowski, M. Zubik, <i>Polish Academy of Sciences, Poland</i>
[P1.046]	<b>Molecular identification of fungi associated with leaf lesions on marama bean seedlings in Namibia</b> M.M. Takundwa, <i>North West University, South Africa</i>
[P1.047]	<b>Evaluation of growth, N2 fixation and grain yield of cowpea (Vigna unguiculata L. Walp) varieties grown under farmers' fields in northern Mozambique</b>

	M.G. Simbine*, S.T. Maseko, S.K. Jaiswal, F.D. Dakora, <i>Tshwane University of Technology, South Africa</i> ,
[P1.048]	<b>Development of genomics resources for orphan food crops in Africa by African orphan crops consortium (AOCC) to address Africa's food and nutritional requirements</b> P.S. Hendre* <sup>1</sup> , S. Bo <sup>3</sup> , J. Featherston <sup>2</sup> , Y.V. der Peer <sup>5</sup> , A.V. Deynze <sup>4</sup> , H. Yana-Shapiro <sup>6</sup> , <sup>1</sup> World Agroforestry Centre, Kenya, <sup>2</sup> Agricultural Research Council, South Africa, <sup>3</sup> BGI, China, <sup>4</sup> University of California, Davis, USA, <sup>5</sup> Ghent University, Belgium, <sup>6</sup> Mars Inc., USA
[P1.049]	<b>Nutritional water productivity of South African sweet potato (<i>Ipomoea batatas</i>)</b> N.E. Mulovhedzi* <sup>1,2</sup> , M. van der Laan <sup>1</sup> , M.G. Mengistu <sup>3</sup> , M.K. Fessehazion <sup>1</sup> , C.P. du Plooy <sup>2</sup> , H.T. Araya <sup>2</sup> , N.A. Ibraimo <sup>2</sup> , <sup>1</sup> Agricultural Research council, South Africa, <sup>2</sup> University of Pretoria, South Africa, <sup>3</sup> South Africa weather services, South Africa
[P1.050]	<b>Variation in three important leaf minerals of Spider Plant germplasm</b> F. Thovhogi, E.T. Gwata, G.R.A. Mchau*, <i>University of Venda, South Africa</i>
[P1.051]	<b>Cultivating for healthy diets: Zimbabwean women farmers lead by example</b> F. Mtambanengwe*, P. Mapfumo, H. Nezomba, G. Manzeke, V. Mbanye, <i>University of Zimbabwe, Zimbabwe</i>
[P1.052]	<b>Cattle breeds and food security in southern Mali</b> S.A. Traoré* <sup>1</sup> , C. Reiber <sup>1</sup> , B. Mergesa <sup>1</sup> , A. Valle Zárate <sup>2</sup> , <sup>1</sup> University of Hohenheim, Germany, <sup>2</sup> Hawassa University, Ethiopia
[P1.053]	<b>Harnessing crop diversity for climate resilient and sustainable food systems: A case for underutilised crops</b> F. Massawe* <sup>1,3</sup> , A.S. Tanzi <sup>1,3</sup> , A.S.A. Bamba <sup>1,4</sup> , A.K. Kundy <sup>1,9</sup> , X.Q. Gao <sup>1</sup> , M.F. Rahman <sup>1,3</sup> , N. Jamalluddin <sup>1</sup> , M. Musa <sup>1,5</sup> , H.H. Chai <sup>1</sup> , W.K. Ho <sup>1,3</sup> , <sup>1</sup> University of Nottingham Malaysia Campus, Malaysia, <sup>2</sup> University of Nottingham, Sutton Bonington Campus, UK, <sup>3</sup> Crop For the Future, Malaysia, <sup>4</sup> CSIR-Savannah Agricultural Research Institute, Ghana, <sup>5</sup> Usmanu Danfodiyo University, Nigeria, <sup>6</sup> University Malaya, Malaysia, <sup>7</sup> The Nelson Mandela African Institution of Science and Technology, Tanzania, <sup>8</sup> Sokoine University of Agriculture, Tanzania, <sup>9</sup> Naliendele Agricultural Research Institute, Tanzania, <sup>10</sup> University College Dublin, Ireland
[P1.054]	<b>The role of diverse feed resources to improve livestock production in mixed-crop livestock systems</b> S.C. Carsan* <sup>1</sup> , P.M. Makui <sup>1</sup> , E.K. Karanja <sup>1</sup> , R.J. Jamnadass <sup>1</sup> , G.L. Graudal <sup>1</sup> , <sup>1</sup> World Agroforestry Centre (ICRAF), Kenya, <sup>2</sup> University of Copen Hagen, Denmark
[P1.055]	<b>Comparing satellite indices for index insurance design in Kenya</b> N. Jensen <sup>1</sup> , Q. Stoeffler <sup>2</sup> , A. Vrieling <sup>3</sup> , C. Atzberger <sup>4</sup> , M. Meroni <sup>5</sup> , M. Carter <sup>6</sup> , A. Mude <sup>1</sup> , F. Fava* <sup>1</sup> , <sup>1</sup> International Livestock Research Institute, Kenya, <sup>2</sup> Istanbul Technical University, Turkey, <sup>3</sup> University of Twente, The Netherlands, <sup>4</sup> University of Natural Resources and Life Science, Austria, <sup>5</sup> Joint Research Centre, Italy, <sup>6</sup> University of California Davis, USA
[P1.056]	<b>Mobilizing local biodiversity for food security : The case of agroforestry practice in South-eastern Nigeria</b> E.C. Amaechina* <sup>1</sup> , J.A.C. Ezihe <sup>2</sup> , <sup>1</sup> University of Nigeria Nsukka, Nigeria, <sup>2</sup> Federal University Of Agriculture, Markurdi, Nigeria
[P1.057]	<b>Wild foods in Venda, South Africa. Improving rural food security or increasing households' vulnerability to climate change?</b> F. Paumgarten* <sup>1</sup> , B. Locatelli <sup>2,3</sup> , E. Witkowski <sup>1</sup> , <sup>1</sup> The University of the Witwatersrand, South Africa, <sup>2</sup> CIRAD, France, <sup>3</sup> CIFOR, South Africa
[P1.058]	<b>Women as food producers in a changing climate: The case of Eastern Province, Zambia</b> W.S. Nchito, P.H. Nyanga, B.B. Umar*, D. Chibamba, <i>The University of Zambia, Zambia</i>
[P1.059]	<b>Towards an integrated development of seed systems in enhancing seed security in China</b> J. Li, <i>Zhejiang University, China</i>
[P1.060]	<b>Biomolecular approaches towards developing drought tolerant Soybean cultivars</b> A. Majola*, N.N. Ludidi, <i>University of the Western Cape, South Africa</i>
[P1.061]	<b>Contributions of the National Program to Strengthen Family Agriculture (PRONAF) in the state of Mato Grosso-Brazil</b> R.C. Toloi <sup>1,2</sup> , J.G.M. Reis <sup>2</sup> , J.R. Maiellaro* <sup>2</sup> , M.N.V. Toloi <sup>2</sup> , J.T.C.M. Mendes <sup>1</sup> , F.A. Silva <sup>3</sup> , <sup>1</sup> University of Porto, Portugal, <sup>2</sup> Paulista University, Brazil, <sup>3</sup> Federal Institute of Mato Grosso, Brazil
[P1.062]	<b>Management practices affect soil aggregation and soil organic matter dynamics in sub-Saharan Africa</b> F.O. Ayuke* <sup>1</sup> , B. Vanlauwe <sup>2</sup> , Z. Zida <sup>3</sup> , B. Ouattara <sup>4</sup> , D. Lelei <sup>5</sup> , D.W. Odee <sup>6,7</sup> , <sup>1</sup> University of Nairobi, Kenya, <sup>2</sup> International Institute for Tropical Agriculture (IITA), Nairobi, Kenya, <sup>3</sup> Alliance for a Green Revolution in Africa (AGRA), Accra,, Ghana, <sup>4</sup> National Institute for Environmental and Agricultural Research (INERA),

	<i>Burkina Faso, <sup>5</sup>World Agroforestry Centre (ICRAF), Kenya, <sup>6</sup>Kenya Forestry Research Institute (KEFRI), Kenya, <sup>7</sup>NERC Centre for Ecology and Hydrology, CEH Edinburgh, UK</i>
[P1.063]	<b>Maize crop performance and water use efficiency as affected by soil fertility management techniques in the sub-humid regions of Kenya</b> M.N. Kiboi* <sup>1</sup> , K.F. Ngetich <sup>1</sup> , D.N. Mugendi <sup>1</sup> , A. Muriuki <sup>2</sup> , N. Adamtey <sup>3</sup> , A. Fließbach <sup>3</sup> , <sup>1</sup> University of Embu, Kenya, <sup>2</sup> National Agricultural Research Laboratories, Kenya Agricultural Livestock and Research Organization Nairobi, Kenya, <sup>3</sup> Research Institute of Organic Agriculture (FiBL), Switzerland
[P1.064]	<b>Valuing leftover steams through livestock: Impact of livestock system and productivity level</b> O. van Hal* <sup>1</sup> , H.H.E. van Zanten <sup>1</sup> , C. Schader <sup>2</sup> , A. Mueller <sup>2</sup> , I.J.M. de Boer <sup>1</sup> , <sup>1</sup> Wageningen University, The Netherlands, <sup>2</sup> FiBL Research Institute of Organic Agriculture, Switzerland
[P1.065]	<b>Social gains and profitability with the change of banana production process</b> A. Formigoni <sup>1,2</sup> , J.R. Maiellaro* <sup>1,3</sup> , C. Jacobavicius <sup>1</sup> , M.F. Brito <sup>1</sup> , M.M.M. Martins <sup>2</sup> , E.M. Silva <sup>1</sup> , F.B. Santos <sup>1</sup> , <sup>1</sup> Fatec Zona Leste, Brazil, <sup>2</sup> FMU, Brazil, <sup>3</sup> Paulista University, Brazil
[P1.066]	<b>Nutrient expert decision support system an entry point for improving maize nutrient management recommendations in sub-Saharan Africa</b> J. Rurinda* <sup>1</sup> , S. Zingore <sup>1</sup> , J.M. Jibrin <sup>1</sup> , T. Balemi <sup>1</sup> , I. Mohammed <sup>1</sup> , K. Masuki <sup>1</sup> , M. Pampolino <sup>1</sup> , J.A. Andersson <sup>1</sup> , B. Vanlauwe <sup>1</sup> , P. Craufurd <sup>1</sup> , <sup>1</sup> International Plant Nutrition Institute (IPNI), Kenya, <sup>2</sup> International Plant Nutrition Institute (IPNI), Kenya, <sup>3</sup> Centre for Dryland Agriculture (CDA), Nigeria, <sup>4</sup> International Maize and Wheat Improvement Center (CIMMYT), Ethiopia, <sup>5</sup> International Institute of Tropical Agriculture (IITA), Nigeria, <sup>6</sup> International Maize and Wheat Improvement Center (CIMMYT), Tanzania, <sup>7</sup> International Plant Nutrition Institute (IPNI), The Philippines, <sup>8</sup> International Maize and Wheat Improvement Center (CIMMYT), The Netherlands, <sup>9</sup> International Institute of Tropical Agriculture (IITA), Kenya, <sup>10</sup> International Maize and Wheat Improvement Center (CIMMYT), Kenya
[P1.067]	<b>Assessment of spatial and temporal variability of water footprints of cereal production in India using a new farmer engagement tool, the Cool Farm Tool Water</b> B. Kayatz <sup>1</sup> , J. Hillier <sup>1</sup> , F. Harris <sup>2</sup> , E. Joy <sup>2</sup> , R. Green <sup>2</sup> , C. Dalin <sup>3</sup> , T. Adhya <sup>4</sup> , P. Smith* <sup>1</sup> , A. Dangour <sup>2</sup> , <sup>1</sup> University of Aberdeen, UK, <sup>2</sup> London School of Hygiene & Tropical Medicine, UK, <sup>3</sup> University College London, UK, <sup>4</sup> KIIT University, India
[P1.068]	<b>The Farmer Learning Centre (LC) approach: Redefining extension to connect farmer innovation and evidence generation for a new era in resilient agricultural production and food systems</b> P. Mapfumo* <sup>1,5</sup> , F. Mtambanengwe <sup>1,5</sup> , H. Nezomba <sup>1,5</sup> , V. Mbanye <sup>1,5</sup> , T. Gwandu <sup>2,5</sup> , J. Rurinda <sup>3,5</sup> , T. Mashavave <sup>4,5</sup> , <sup>1</sup> University of Zimbabwe, Zimbabwe, <sup>2</sup> Chemistry & Soils Research Institute, Zimbabwe, <sup>3</sup> International Plant Nutrition Institute, Kenya, <sup>4</sup> Ministry of Macroeconomics & Investment Promotion, Zimbabwe, <sup>5</sup> Soil Fertility Consortium for Southern Africa (SOFECSA), Zimbabwe
[P1.069]	<b>Significance of low input grassland based animal production for local and global food security</b> K.W. Van der Hoek, <i>retired consultant, The Netherlands</i>
[P1.070]	<b>Diverse rhizobia nodulate cowpea (<i>Vigna unguiculata</i> L. Walp) in three agro-ecologies of Mozambique</b> I.N. Chidebe* <sup>1</sup> , S.K. Jaiswal <sup>1</sup> , S.K. Boahen <sup>2</sup> , F.D. Dakora <sup>1</sup> , <sup>1</sup> Tshwane University of Technology, Pretoria, South Africa, <sup>2</sup> Tshwane University of Technology, Pretoria, South Africa, <sup>3</sup> International Institute for Tropical Agriculture, Mozambique, <sup>4</sup> Tshwane University of Technology, Pretoria, South Africa
[P1.071]	<b>Edible insect farming: a strategy for providing sustainable nutrition and economic empowerment for orphanages in the Democratic Republic of the Congo</b> A. Franklin* <sup>1</sup> , N. Brandt <sup>2</sup> , N. Ureda <sup>1</sup> , R. Huddy <sup>2</sup> , <sup>1</sup> Farms for Orphans, Inc (FFO), USA, <sup>2</sup> Global Orphan Foundation, USA
[P1.072]	<b>Adoption and intensity of climate smart agriculture for food security: How farmers' participation in a community watershed project influences their adoption of soil and water conservation practices, and the resulting yields in southern Malawi</b> F.O. Amadu* <sup>1</sup> , P.E. McNamara <sup>1</sup> , D.C. Miller <sup>1</sup> , R. Brazee <sup>1</sup> , E. Kalipeni <sup>1</sup> , <sup>1</sup> University of Illinois, USA, <sup>2</sup> University of Illinois, USA, <sup>3</sup> University of Illinois, USA, <sup>4</sup> University of Illinois, USA, <sup>5</sup> University of Illinois, USA
[P1.073]	<b>Household level food security impacts of a biofuel mandate in Ghana</b> M.L.J. Brinkman* <sup>1</sup> , J. Levin-Koopman <sup>4</sup> , E.M.W. Smeets <sup>4</sup> , I. Maltsoğlu <sup>3</sup> , L.E. Rincon <sup>3</sup> , B. Wicke <sup>1</sup> , A.P.C. Faaij <sup>2</sup> , F. van der Hilst <sup>1</sup> , <sup>1</sup> Utrecht University, The Netherlands, <sup>2</sup> University of Groningen, The Netherlands, <sup>3</sup> FAO, Italy, <sup>4</sup> Wageningen Economic Research, The Netherlands
[P1.074]	<b>Comparative analysis of the antioxidant and osmoprotectants responses to drought in soybean and cowpea</b>

	K. Phillips, N. Duba, N. Kopana, A. Majola, N. Ludidi*, <i>University of the Western Cape, South Africa</i>
[P1.075]	<b>Addressing trace element deficiency in Africa: some insights from field and laboratory studies on N<sub>2</sub>-fixing legumes</b> F.D. Dakora*, A.K. Belane, K.C. Mohale, F. Pule-Meulenberg, <i>Tshwane University of Technology, South Africa</i>
[P1.076]	<b>Food shortages and early warning in Papua New Guinea</b> D.H. Cobon* <sup>1</sup> , M. Ewai <sup>2</sup> , K. Inape <sup>3</sup> , <sup>1</sup> <i>University of Southern Queensland, Australia</i> , <sup>2</sup> <i>Environment Department, Papua New Guinea</i> , <sup>3</sup> <i>National Weather Service, Papua New Guinea</i>
[P1.077]	<b>Patterns of the main grains production, consumption and their balances in China</b> Y. Xiao* <sup>1,2</sup> , G. Xie <sup>1,2</sup> , C. Lu <sup>1,2</sup> , S. Cheng <sup>1</sup> , A. Liu <sup>1</sup> , <sup>1</sup> <i>Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences, China</i> , <sup>2</sup> <i>University of Chinese Academy of Sciences, China</i>
[P1.078]	<b>Maize-lablab intercropping: A promising option for ecological intensification in southern Africa</b> E. Rapholo <sup>1</sup> , J.J.O. Odhiambo <sup>1</sup> , W. Nelson <sup>2,3</sup> , K. Ayisi <sup>4</sup> , R.P. Rötter <sup>2,3</sup> , M.P. Hoffmann* <sup>2</sup> , <sup>1</sup> <i>University of Venda, South Africa</i> , <sup>2</sup> <i>Georg-August-University of Göttingen, Germany</i> , <sup>3</sup> <i>Centre for Biodiversity and Sustainable Land Use (CBL), Germany</i> , <sup>4</sup> <i>University of Limpopo,, South Africa</i>
[P1.079]	<b>Support of precision agriculture with an ecosystem monitoring system from gyrocopter platform</b> P. Baranowski*, A. Bieganski, J. Krzyszcak, M. Zubik, <i>Institute of Agrophysics Polish Academy of Sciences, Poland</i>
[P1.080]	<b>The analysis of gender differences among small-holder farmers in vegetable production in Kutama-Sinthumule villages, Limpopo Province</b> P.C. Rasweswe* <sup>1,2</sup> , C.L. Muchopa <sup>2</sup> , <sup>1</sup> <i>Agricultural Research Council, South Africa</i> , <sup>2</sup> <i>University of Limpopo, South Africa</i>
[P1.081]	<b>Adoption and impacts of vegetable technologies on household welfare: Evidence from Africa RISING sites in Tanzania</b> J. Ochieng* <sup>1</sup> , V. Afari-Sefa <sup>2</sup> , P. Likumay <sup>1</sup> , F. Muthoni <sup>3</sup> , I. Dominic <sup>1</sup> , <sup>1</sup> <i>World Vegetable Center, Tanzania</i> , <sup>2</sup> <i>World Vegetable Center, Benin</i> , <sup>3</sup> <i>International Institute of Tropical Agriculture, Tanzania</i>
[P1.082]	<b>GreenEdge: Innovative technology for sustainable agriculture</b> A.A. Varshovi, <i>GreenTechnologies, LLC., USA</i>
[P1.083]	<b>Tool for assessing sustainability of smallholder dairy and traditional cattle milk producer farms in East Africa</b> C. Munyaneza* <sup>1,2</sup> , L. Kurwijila <sup>2</sup> , N.S.Y. Mdoe <sup>2</sup> , I. Baltenweck <sup>1</sup> , E.E. Twine <sup>1</sup> , <sup>1</sup> <i>International Livestock Research Institute, Kenya</i> , <sup>2</sup> <i>Sokoine University of Agriculture, Tanzania</i>
[P1.084]	<b>Healthy snacks or food security? Contribution of tree crops to household income and food security in Vhembe District of South Africa</b> P. Chaminuka* <sup>1</sup> , A. Verschoor <sup>1</sup> , Y.P.B. van Leynseele <sup>2</sup> , M. Olofsson <sup>2</sup> , I.B. Oluwatayo <sup>3</sup> , <sup>1</sup> <i>Agricultural Research Council, South Africa</i> , <sup>2</sup> <i>University of Amsterdam, The Netherlands</i> , <sup>3</sup> <i>University of Limpopo, South Africa</i>
[P1.085]	<b>Assessing the impact of energy use in crop production</b> T.A. Brás*, J. Seixas, <i>Universidade NOVA de Lisboa, Portugal</i>
[P1.086]	<b>Sustainable land use under rising food demands in Uganda?</b> B. Stuch* <sup>1</sup> , J. Alcamo <sup>1,2</sup> , R. Schaldach <sup>1</sup> , <sup>1</sup> <i>University of Kassel, Germany</i> , <sup>2</sup> <i>University of Sussex, UK</i>
[P1.087]	<b>Investigating the role of <i>Sorghum bicolor</i> Hsp70-1 (SbHsp70-1) towards the development of stress tolerant crops.</b> T. Mulaudzi-Masuku* <sup>1</sup> , R. Mutepe <sup>1</sup> , K. Hendricks <sup>1</sup> , M. Kwindi <sup>1</sup> , E. Iwuoha <sup>1</sup> , B. Ndimba <sup>1,2</sup> , <sup>1</sup> <i>University of the Western Cape, South Africa</i> , <sup>2</sup> <i>Agricultural Research Council, South Africa</i>
[P1.088]	<b>Measuring the efficiency of public agricultural research in south africa for food security:a literature review</b> M. Mamabolo, <i>Agricultural Research Council, South Africa</i>
[P1.089]	<b>Plant growth, grain yield and symbiotic parameters of 25 Bambara groundnut landraces grown at Marapyane, South Africa</b> F. Yattara Inamoud Ibny*, S. Jaiswal, F-D. Dakora, <i>Tshwane University of Technology, South Africa, South Africa</i>
[P1.090]	<b>Comparative evaluation of LAMP, qPCR, conventional PCR and ELISA to detect <i>Ralstonia solanacearum</i></b> L.A. Okiro* <sup>1,4</sup> , M.A. Tancos <sup>2</sup> , S.G. Nyanjom <sup>1</sup> , C.D. Smart <sup>2</sup> , M.L. Parker <sup>3</sup> , <sup>1</sup> <i>Jomo Kenyatta University, Kenya</i> , <sup>2</sup> <i>Cornell University, USA</i> , <sup>3</sup> <i>International Potato Centre, Kenya</i> , <sup>4</sup> <i>Egerton University, Kenya</i>
[P1.091]	<b>Production of <i>Solanum tuberosum</i> L. microtuber using temporary immersion system</b>

	S. Higgins*, J. Latore, R. Francis, <i>Scientific Research Council, Jamaica</i>
[P1.092]	<b>Role of soil fertility dynamics on African indigenous Vegetables productivity and nutritional quality</b> D.O. Andika* <sup>1</sup> , G.N. Nambafu <sup>1</sup> , E. Onyuka <sup>1</sup> , S. Frederike <sup>1</sup> , B. Bessler <sup>1</sup> , J.G. Onyango <sup>1</sup> , S. Mwonga <sup>1</sup> , C. Engels <sup>1</sup> , <sup>1</sup> Humboldt University Berlin, Germany, <sup>2</sup> Egerton University, Kenya, <sup>3</sup> Jaramogi Oginga Odinga University of Science and Technology, Kenya, <sup>4</sup> Kenyatta University, Kenya
[P1.093]	<b>Marker-Assisted Selection for Development of High-Yielding and Blast Resistant Rice Variety for Food Security in Malaysia</b> M.Y. Rafii* <sup>1</sup> , G. Miah <sup>1</sup> , M.R. Ismail <sup>1,2</sup> , H.A. Rahim <sup>2</sup> , <sup>1</sup> Universiti Putra Malaysia, Malaysia, <sup>2</sup> Agrotechnology and Bioscience Division, Malaysian Nuclear Agency, 43000 Kajang, Selangor, Malaysia, Malaysia
[P1.094]	<b>A rapid, simple and reliable tool for monitoring pathogenic Vibrios in oysters and seawater</b> S. Parveen* <sup>1</sup> , J. Jacobs <sup>2</sup> , J. Meredith <sup>1</sup> , S. Ossai <sup>1</sup> , A. Grant <sup>1</sup> , P. Chigbu <sup>1</sup> , K. Brohawn <sup>3</sup> , G. Richards <sup>4</sup> , <sup>1</sup> University of Maryland Eastern Shore, USA, <sup>2</sup> National Oceanic and Atmospheric Administration, USA, <sup>3</sup> Maryland Department of the Environment, USA, <sup>4</sup> Agricultural Research Service, USA
[P1.095]	<b>Status quo of India's fight against milk safety issues</b> A. Kumar, B. Rao*, <i>IIT BOMBAY, India</i>
[P1.096]	<b>Effect of fortified maize-cowpea blend (weanimix) on viability of Lactobacillus plantarum NCIMB 8826 under acid and bile conditions</b> E. Kyereh*, M. Yeboah-Awudzi, S. Sathivel, <i>Louisiana State University, Baton Rouge, USA</i>
[P1.097]	<b>Food security at the cost of environment? 'Chain effects' in the case of imported GM soy-feed in EU</b> M. Eriksson <sup>1</sup> , R. Ghosh* <sup>2</sup> , E. Hansson <sup>1</sup> , S. Basnet <sup>1</sup> , C-J. Lagerkvist <sup>1</sup> , <sup>1</sup> Swedish University of Agricultural Sciences (SLU), Uppsala, Sweden, <sup>2</sup> Indian Institute of Management – Ahmedabad, India
[P1.098]	<b>Aflatoxin contamination of village grains in central Tanzania: Food and agricultural practices in relation to contamination and exposure risk</b> G.Z. Magoke* <sup>1,3</sup> , M. Krockenberger <sup>1</sup> , W. Maulaga <sup>3</sup> , W.L. Bryden <sup>2</sup> , F. Mramba <sup>3</sup> , R.G. Alders <sup>1</sup> , <sup>1</sup> University of Sydney, Australia, <sup>2</sup> University of Queensland, Australia, <sup>3</sup> Tanzania Veterinary Laboratory Agency, Tanzania
[P1.099]	<b>Expression of candidate maize defense genes in response to Cercospora zeina (C. zeina)</b> Z.E. Mlunjwa*, D.K.B. Berger, <i>University of Pretoria, South Africa</i>
[P1.100]	<b>Performance of upland NERICA under limiting water condition as influenced by silicon and compost augmentation in Ibadan, southwestern Nigeria</b> O.A. Dada*, E.O. Lawal, <i>University of Ibadan, Nigeria</i>
[P1.101]	<b>A critical investigation into the effectiveness of soil and water remediation efforts in Steel Valley, Vanderbijlpark, South Africa</b> E. Ahenkorah*, T.J.M. McKay, A.A.Q. Ahmed, <i>University of South Africa, South Africa</i>
[P1.102]	<b>Potentials of improving microbiological quality and safety of fermented dairy products manufactured by small-scale processors in Kandy district, Sri Lanka</b> P.P. Jayasekara <sup>1</sup> , J.C. Hapugoda <sup>2</sup> , R.S. Kalupahana* <sup>1</sup> , <sup>1</sup> University of Peradeniya, Sri Lanka, <sup>2</sup> The Open University of Sri Lanka, Sri Lanka
[P1.103]	<b>Biochemical characterization of two contrasting common bean cultivars in response to antimony stress</b> L. Niekerk <sup>1</sup> , A. Gokul <sup>1</sup> , A. Klein* <sup>2</sup> , M. Keyster <sup>1</sup> , <sup>1</sup> University of the Western Cape, South Africa, <sup>2</sup> University of the Western Cape, South Africa
[P1.104]	<b>Bacterial antagonism against E. coli O157:H7 on leafy vegetables</b> M. Karlsson*, A. Rosberg, J. Lindén, E. Mulaosmanovic, M. Grudén, L. Mogren, B. Alsanius, <i>Dr., Sweden</i>
[P1.105]	<b>Effect of drying methods on quality properties of pre-treated and untreated Tommy Atkin mango (Mangifera indica L.)</b> K. Mugodo* <sup>1</sup> , S. Sibanda <sup>1</sup> , T.S. Workneh <sup>1</sup> , <sup>1</sup> Agricultural Research Council, South Africa, <sup>2</sup> University of Kwazulu Natal, South Africa
[P1.106]	<b>The effect of Bradyrhizobium and Kelpak application on growth, nitrogen nutrition, water-use efficiency and rhizobial biodiversity of 18 cowpea genotypes at Marapyane, South Africa</b> M. Dabo* <sup>1</sup> , F.D. Dakora <sup>2</sup> , <sup>1</sup> Tshwane University of Technology, South Africa, <sup>2</sup> Faculty of Sciences, South Africa
[P1.107]	<b>Next Generation Sequencing of African yam bean Accessions</b> A. AINA* <sup>1</sup> , D. Potter <sup>1</sup> , <sup>1</sup> University of Ibadan, Ibadan, Nigeria, <sup>2</sup> University of California, Davis, USA
[P1.108]	<b>Temporal microbial dynamics of farm pond water in the Mid-Atlantic, United States: A CONSERVE study</b> J. Chopyk* <sup>1</sup> , S. Allard <sup>1</sup> , D.J. Nasko <sup>1</sup> , T. Treangen <sup>1</sup> , E. Handy <sup>2</sup> , C. East <sup>2</sup> , A. Bui <sup>1</sup> , H. Craddock <sup>1</sup> , M.T. Callahan <sup>1</sup> , A.R. Sapkota <sup>1</sup> , <sup>1</sup> University of Maryland, USA, <sup>2</sup> United States Department of Agriculture-Agricultural Research Service, USA

[P1.109]	<b>Application of host-induced gene silencing to manage diseases in agriculturally important plants</b> K.P. Masike*, J. Liversage, B. Crampton, <i>University of Pretoria, South Africa</i>
[P1.110]	<b>Comparative analysis of two contrasting canola genotypes in response to drought stress</b> M. Nkomo* <sup>1,2</sup> , A. Lilelo <sup>1</sup> , B. Ndimba <sup>2</sup> , A. Klein <sup>1</sup> , N. Ludidi <sup>1</sup> , <sup>1</sup> <i>University of the Western Cape, South Africa</i> , <sup>2</sup> <i>Infruitec, South Africa</i>
[P1.111]	<b>The prevalence of the <i>Salmonella</i> pathogen in rural Tanzania</b> S.W.P. Shum, <i>Royal Veterinary College, UK</i>
[P1.112]	<b>Variation in growth and nodulation of field-grown of Bambara groundnut in Nampula, Mozambique</b> M.E. Mohale*, S.T. Maseko, F.D. Dakora, <i>Tshwane University of Technology, South Africa</i>
[P1.113]	<b>Assessment of mineral nutrient accumulation in leaves and grain of bio-fortified common bean genotypes grown in Swaziland</b> G.N. Maleka*, S.T. Maseko, F.D. Dakora, <i>University of Technology, South Africa</i>
[P1.114]	<b>Assessment of mineral accumulation in leaves and grains of drought-tolerant dry bean genotypes in Swaziland</b> F.D. Dakora, S.T. Maseko, D.D. Xaba*, <i>Tshwane University of Technology, South Africa</i>
[P1.115]	<b>Effect of seaweed extract (kelpak) and phosphorus applications on root architecture, plant growth and symbiotic performance of ten cowpea genotypes</b> J.P. Zwane*, S.T. Maseko, F.D. Dakora, <i>Tshwane University of Technology, South Africa</i>
[P1.116]	<b>India: Is population reduction solution for Food Security and Environmental Issues?</b> S. Mishra, <i>National Institute of Science Education and Research, India</i>
[P1.117]	<b>Quality and safety control in Tanzania milk chains: Current practices and interventions</b> J. Ledo*, K.A. Hettinga, P.A. Luning, <i>Wageningen University, The Netherlands</i>
[P1.118]	<b>Effect of institutional arrangements on climate change in order to improve food security in communal areas of the Eastern Cape province: A focus on cattle production</b> G. Lindokhule, <i>University of Fort Hare, South Africa</i>
[P1.119]	<b>Should DNA fingerprinting be part of adoption and impact studies of crop technologies? Results from the Cassava variety identification experiment in Malawi</b> J.I. Ilukor* <sup>1,2</sup> , T.K. Kilic <sup>1</sup> , H.M. Moyland <sup>1</sup> , J.S. Stevensson <sup>2</sup> , F.K. Kosmowski <sup>2</sup> , A.N. Nganga <sup>3</sup> , A.M. Muhone <sup>4</sup> <sup>1</sup> <i>World Bank, USA</i> , <sup>2</sup> <i>FAO-CGIAR Independent Science and Partnership Council's Standing Panel on Impact Assessment, Italy</i> , <sup>3</sup> <i>International Institute of Tropical Agriculture, Malawi</i> , <sup>4</sup> <i>Chitedze National Agricultural Research Institute, Malawi</i>
[P1.120]	<b>Socio-Economic factors influencing adoption of conservation agriculture in Moroto district, Uganda</b> A. Esabu, <i>University of the Free State, Uganda</i>



**Poster Session 2**  
**5<sup>th</sup> December 2017- 13:00-14:00**

[P2.001]	<p><b>A study on antibacterial activities of essential oils from most commonly used spices in Zanzibar against milk spoilage bacteria</b>  A. Ahmed*<sup>1</sup>, R.H. Mdegela<sup>2</sup>, J.J. Magadula<sup>3</sup>, <sup>1</sup><i>Mbeya University of Science and Technology, Tanzania</i>, <sup>2</sup><i>Sokoine University of Agriculture, Tanzania</i>, <sup>3</sup><i>Institute of Traditional Medicine, Tanzania</i></p>
[P2.002]	<p><b>Quantitative and qualitative loss assessment during postharvest supply chain of lettuce from the transport to the retailers linked to Tshwane fresh produce market</b>  G.M. Managa*<sup>1</sup>, G. Senyolo<sup>1</sup>, H.E. Smyth<sup>2</sup>, Y. Sultanbawa<sup>2</sup>, D. Sivakumar<sup>1</sup>, <sup>1</sup><i>Tshwane University Of Technology, South Africa</i>, <sup>2</sup><i>University of Queensland, Austria</i></p>
[P2.003]	<p><b>Efficacy of selected botanical plant extracts against stored grain pests in Zimbabwe</b>  N. "Nleya"*<sup>1</sup>, Y.O. "Nyararai"<sup>1</sup>, M. "Mawanza"<sup>1</sup>, S. "Banda"<sup>1</sup>, <i>National University of Science &amp; Technology, Zimbabwe</i></p>
[P2.004]	<p><b>Learning food security issues through service learning experiences</b>  M. Dynes*<sup>1</sup>, S. Bateman<sup>1</sup>, A. Han<sup>1</sup>, A. England<sup>1</sup>, A. Abaye<sup>1</sup>, <i>Virginia Tech, USA</i></p>
[P2.005]	<p><b>Knowledge, attitudes and practices concerning aflatoxin exposure and control among smallholder farmers in Zimbabwe</b>  M. Kunzekweguta<sup>1</sup>, C. Murendo*<sup>1</sup>, K. Mazvimavi<sup>1</sup>, S. Moyo<sup>1</sup>, M. Moyo<sup>1</sup>, B. Gapare<sup>1</sup>, <i>International Crops Research Institute for the Semi-Arid Tropics, Zimbabwe</i></p>
[P2.006]	<p><b>An integrated analysis of vegetable supply networks in Nigeria to improve efficiency, safety and quality</b>  J.W.H. van der Waal*<sup>1</sup>, J. Clercx<sup>1</sup>, <i>Agro Fair Europe BV, The Netherlands</i></p>
[P2.007]	<p><b>The NitrogenFootprint of Different Scales of Restaurant Food Waste: A Beijing Case Study</b>  D. Zhang<sup>1</sup>, F. Lun<sup>2</sup>, S.K. Cheng*<sup>1</sup>, <sup>1</sup><i>Institute of Geographic Sciences and Natural Resources Research, China</i>, <sup>2</sup><i>Beijing Forestry University, China</i></p>
[P2.008]	<p><b>Warehouse receipt financing for smallholders in developing countries: long on imagination, short on logic</b>  M.J. Miranda<sup>1</sup>, F.M. Mulangu<sup>2</sup>, F.H. Kemeze*<sup>3</sup>, <sup>1</sup><i>The Ohio State University, USA</i>, <sup>2</sup><i>Millennium Challenge Corporation, USA</i>, <sup>3</sup><i>International Policy Food Research Institute, Ghana</i></p>
[P2.009]	<p><b>Nutritional quality of three fish species processed using different processing methods in Lake Chilwa</b>  M.C. "Likongwe"*<sup>1,2</sup>, M.C. "Katundu"<sup>1</sup>, W. "Kasapila"<sup>1</sup>, <sup>1</sup><i>University of Malawi, Chancellor College, Malawi</i>, <sup>2</sup><i>Lilongwe University of Agriculture and Natural Resources (LUANAR), Malawi</i></p>
[P2.010]	<p><b>Greenhouse gas emissions reduction efficiency of food losses and waste measures</b>  J. Broeze*<sup>1</sup>, N. Waldhauer<sup>1</sup>, M. van der Burgh<sup>1</sup>, <i>Wageningen University &amp; Research, The Netherlands</i></p>
[P2.011]	<p><b>Development of a solar-battery powered evaporative cooling system for small-scale farmers</b>  S. Sibanda*<sup>1</sup>, W.S. Tilahun<sup>2</sup>, K. Mugodo<sup>1</sup>, E.K. Manyako<sup>1</sup>, <sup>1</sup><i>Agricultural Research Council, South Africa</i>, <sup>2</sup><i>University of KwaZulu Natal, South Africa</i></p>
[P2.012]	<p><b>Food waste by design - How present systems create food waste and how its minimization can help alleviate food insecurity</b>  A.E.J. McGill<sup>1</sup>, <i>Future For Food, Australia</i></p>
[P2.013]	<p><b>Losses in the Corn Production Chain: Case Study</b>  A. Souza<sup>1</sup>, J.R. Maiellaro*<sup>1</sup>, J.G.M. Reis<sup>1</sup>, H. Raymundo<sup>1</sup>, E.R. Abraham<sup>1</sup>, <i>Paulista University, Brazil</i></p>
[P2.014]	<p><b>Indigenous food preservation knowledge and its contribution to food security in an african rural community</b>  I.T. Samboko*<sup>1</sup>, P.H. Nyanga<sup>1</sup>, C.F.K. Wamuwi<sup>1</sup>, <i>The University of Zambia, Zambia</i></p>
[P2.015]	<p><b>Losses and inefficiencies in the global food system, and how to reduce them</b>  P. Alexander*<sup>1,2</sup>, A. Arneth<sup>3</sup>, C. Brown<sup>3</sup>, D. Moran<sup>2,4</sup>, M. Rounsevell<sup>1,3</sup>, <sup>1</sup><i>University of Edinburgh, UK</i>, <sup>2</sup><i>Scotland's Rural College, UK</i>, <sup>3</sup><i>Karlsruhe Institute of Technology, Germany</i>, <sup>4</sup><i>University of York, UK</i></p>
[P2.016]	<p><b>New source of angular leaf spot resistance among common bean landraces</b>  G. Ddamulira*<sup>1</sup>, M. Ochwo-Ssemakula<sup>2</sup>, C. Mukankusi<sup>3</sup>, <sup>1</sup><i>National Crops Resources Research Institute, Uganda</i>, <sup>2</sup><i>Makerere University, Uganda</i>, <sup>3</sup><i>International Centre for Tropical Agriculture, Uganda</i></p>
[P2.017]	<p><b>Functional properties of crude protein from de-oiled rice bran and its application as food additives</b>  A. Dabade<sup>1</sup>, M. Chugule<sup>1</sup>, S. Kamat*<sup>1</sup>, <i>D.Y. Patil University, India</i></p>
[P2.018]	<p><b>Antioxidant and nutritional properties of tomato powder prepared by drying of tomato pulp and tomato slices</b></p>

	O.R. Aderibigbe*, S.O. Owolade, <i>National Horticultural Research Institute, Nigeria</i>
[P2.019]	<b>Seasonal climate forecasts, women empowerment and post-harvest losses in maize based systems in Zimbabwe</b> S. Moyo, C. Murendo*, M. Kunzekweguta, K. Mazvimavi, M. Moyo, <i>International Crops Research Institute for the Semi-Arid Tropics, Zimbabwe</i>
[P2.020]	<b>Foodstuff distribution and storage facility constraints as determinants of urban food loss: Some preliminary evidence</b> E.O. Adeyemi* <sup>1</sup> , I.R. Aliu <sup>2</sup> , <sup>1</sup> <i>Federal University Oye-Ekiti, Nigeria</i> , <sup>2</sup> <i>Lagos State University Ojo Lagos, Nigeria</i>
[P2.021]	<b>Potential impacts of market and non-market forces on live ruminant post-production value losses (LR-PPLs) – Evidence from Senegal</b> A. Wane* <sup>1,2</sup> , N. Mtimet <sup>1</sup> , N. Njiru <sup>1</sup> , S. Staal <sup>1</sup> , <sup>1</sup> <i>ILRI, Kenya</i> , <sup>2</sup> <i>CIRAD, France</i>
[P2.022]	<b>In-situ management of organic kitchen waste using fermentation techniques</b> S. Shukla*, S. Gupta, <i>Shri Ramswaroop Memorial University, India</i>
[P2.023]	<b>Elucidation of the Biochemical and Functional Properties of an Unknown Novel Protein from <i>Arabidopsis thaliana</i></b> S-K. Sehlabane*, T-B. Dikobe, P. Chatukuta, <i>North West University, South Africa</i>
[P2.024]	<b>Grazing systems intensification: challenges and opportunities</b> C.M. Godde* <sup>1,2</sup> , D. Leclère <sup>3</sup> , P. Havlík <sup>3</sup> , B. Power <sup>1</sup> , C. Folberth <sup>3</sup> , A. Ash <sup>1</sup> , K. Waha <sup>1</sup> , S. Wirsenius <sup>4</sup> , R. Boone <sup>5</sup> , M. Herrero <sup>1</sup> , <sup>1</sup> <i>Commonwealth Scientific and Industrial Research Organisation, Australia</i> , <sup>2</sup> <i>University of Queensland, Australia</i> , <sup>3</sup> <i>International Institute for Applied Systems Analysis, Austria</i> , <sup>4</sup> <i>Chalmers University of Technology, Sweden</i> , <sup>5</sup> <i>Colorado State University, USA</i>
[P2.025]	<b>Engaging with food sovereignty to fight exclusion in the food system? Reflections of an urban agriculture initiative in South Africa</b> A. Siebert <sup>1</sup> , <sup>1</sup> <i>Ruhr-University Bochum, Germany</i> , <sup>2</sup> <i>Erasmus University Rotterdam, The Netherlands</i>
[P2.026]	<b>The Impact of Regional Trade Agreement on Trade In Agriculture: Case Study: Eastern and Southern Africa</b> T.D. Gebrehiwot*, L. Korsten, S.J. Cornelius, <i>University of Pretoria, South Africa</i>
[P2.027]	<b>The impact of regional trade agreement on trade in agriculture: Case study eastern and southern Africa</b> T. Gebrehiwot*, L. Korsten, S. Cornelius, <i>University of Pretoria, South Africa</i>
[P2.028]	<b>Household food insecurity and factors associated with undernutrition among lactating mothers in rural Ambo District, West Shewa Zone, Oromia Region, Ethiopia</b> E. Zerihun* <sup>1</sup> , G. Egata <sup>2</sup> , F. Mesfin <sup>2</sup> , <sup>1</sup> <i>Arbaminch University, Ethiopia</i> , <sup>2</sup> <i>Haramaya University, Ethiopia</i> , <sup>3</sup> <i>Haramaya University, Ethiopia</i>
[P2.029]	<b>The effect of the National Food Reserve Agency on maize market prices in Tanzania</b> G. Pierre, K. Pauw*, E. Magrini, <i>Food and Agriculture Organization, Ethiopia</i>
[P2.030]	<b>Determinants of retailers' decision to sell organic traditional African vegetables in selected towns in Zambia</b> J. Ochieng* <sup>1</sup> , R. Govindasamy <sup>2</sup> , V. Afari-Sefa <sup>4</sup> , F. Dinssa <sup>1</sup> , J. Simon <sup>2</sup> , S. Weller <sup>3</sup> , E. Wyk <sup>5</sup> , <sup>1</sup> <i>World Vegetable Center, Tanzania</i> , <sup>2</sup> <i>Rutgers University, USA</i> , <sup>3</sup> <i>Purdue University, USA</i> , <sup>4</sup> <i>World Vegetable Center, Benin</i> , <sup>5</sup> <i>AgriSmart Africa, Zambia</i>
[P2.031]	<b>Nutrition knowledge, attitudes and behaviour as well as perceptions of hunger and food security of caregivers in a resource limited community in Bronkhorstspuit</b> R. Mathye*, G. Gericke, <i>University of Pretoria, South Africa</i>
[P2.032]	<b>Agripreneurship Alliance: Building a global partnership to support young Agripreneurs in Africa with cloud-based tools and resources</b> S. Carr*, A. Roulin, <i>Agripreneurship Alliance, Switzerland</i>
[P2.033]	<b>Stimulating use of local food resources in Africa to improve nutrition and livelihoods: A new integrated food consumption assessment tool for better decision making in nutrition interventions.</b> Y. Morimoto <sup>1</sup> , P.M. Maundu <sup>2</sup> , C. Termote* <sup>1</sup> , <sup>1</sup> <i>Bioversity International, Kenya</i> , <sup>2</sup> <i>National Museums of Kenya, Kenya</i>
[P2.034]	<b>Evaluating spar supermarket's fresh food strategy in South Africa</b> M.M.I. Roefs* <sup>1</sup> , K. Carden <sup>2</sup> , <sup>1</sup> <i>Centre for Development Innovation Wageningen University Research, The Netherlands</i> , <sup>2</sup> <i>Southern Africa Food Lab, South Africa</i>
[P2.035]	<b>Biocultural determinants of overweight in the context of nutrition transition in Senegal</b> E. Cohen* <sup>1,3</sup> , A. Ndao <sup>2</sup> , L. Gueye <sup>3</sup> , G. Boëtsch <sup>3</sup> , P. Pasquet <sup>4</sup> , M. Holdsworth <sup>5</sup> , P. Jean-Luc Gradidge <sup>6</sup> , R.

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[P2.036]	<b>Growing condition variations and grain price transmission in Nigeria versus Niger</b> P.L. Hatzenbuehler* <sup>1</sup> , P.C. Abbott <sup>2</sup> , T. Abdoulaye <sup>3</sup> , <sup>1</sup> IFPRI, Nigeria, <sup>2</sup> Purdue University, USA, <sup>3</sup> IITA, Nigeria
[P2.037]	<b>Stakeholder facilitated approach to improve food and nutrition resilience for rural and urban communities: case study of Laikipia County, Kenya</b> S. McMullin* <sup>1</sup> , M. Bourne <sup>1</sup> , K. Njogu <sup>1</sup> , A. Gachuiru <sup>1</sup> , F. Musili <sup>1</sup> , S. Carsan <sup>1</sup> , T. Vagen <sup>1</sup> , L. Buck <sup>1</sup> , S. Scherr <sup>1</sup> , C. Neely <sup>1</sup> , <sup>1</sup> World Agroforestry Centre (ICRAF), Kenya, <sup>2</sup> EcoAgriculture Partners, USA
[P2.038]	<b>Gender differences in climate change risk, food security, and adaptation: A study of rural households' reliance on agriculture and natural resources to sustain livelihoods</b> B. Tibesigwa* <sup>1</sup> , M. Visser <sup>2</sup> , L. Hunter <sup>1,4</sup> , M. Collinson <sup>3</sup> , W. Twine <sup>3</sup> , <sup>1</sup> University of Dar es Salaam, Tanzania, <sup>2</sup> University of Cape Town, South Africa, <sup>3</sup> University of Witwatersrand, South Africa, <sup>4</sup> University of Colorado, USA
[P2.039]	<b>Exploring pathways through which home-grown school feeding interventions contribute to food security amongst rural farm households: Evidence from Northern Ghana</b> C. Mensah, University of the Western Cape, South Africa
[P2.040]	<b>LEAP-Agri, a joint Africa- Europe project for research and innovation partnership for food security and sustainable agriculture</b> M. Heral <sup>1</sup> , B. Mallet* <sup>1</sup> , P. Makhura <sup>2</sup> , E. Mwangi <sup>3</sup> , <sup>1</sup> ANR, France, <sup>2</sup> NRF, South Africa, <sup>3</sup> MEST, Kenya
[P2.041]	<b>The effect of changing meat and milk consumption on future water and land footprints in Kenya</b> C.K. Bosire* <sup>1,2</sup> , N.M. Mtimet <sup>1</sup> , M.S. Krol <sup>2</sup> , J. de Leeuw <sup>4</sup> , J.O. Ogutu <sup>3</sup> , P.K. Guthiga <sup>1</sup> , A.Y. Hoekstra <sup>2</sup> , S. Arquitt <sup>1</sup> , <sup>1</sup> International Livestock Research Institute, Kenya, <sup>2</sup> University of Twente, The Netherlands, <sup>3</sup> University of Hohenheim, Germany, <sup>4</sup> Baku State University, Azerbaijan, <sup>5</sup> Millennium Institute, USA
[P2.042]	<b>Agriculture, food security and the Sustainable Development Goals: Theory and practice in three development contexts</b> J.D.B. Gil*, P. Reidsma, K. Giller, M. van Ittersum, Wageningen University, The Netherlands
[P2.043]	<b>Urban sprawl, food security and agricultural systems' resilience: A systematic review focusing on arid and semi-arid zones</b> C.J. Lagerkvist <sup>1</sup> , A. Abu Hatab* <sup>1</sup> , S. Nedumaran <sup>2</sup> , <sup>1</sup> Swedish University of Agricultural Sciences, Sweden, <sup>2</sup> International Crops Research Institute for the Semi-Arid Tropics, India
[P2.044]	<b>Glofoods, an institutional incentive to tackle food security through integrated research</b> E. Hainzelin* <sup>1</sup> , A. Thomas <sup>2</sup> , N. Zakhia <sup>1</sup> , S. Dury <sup>1</sup> , <sup>1</sup> Cirad, France, <sup>2</sup> Inra, France
[P2.045]	<b>Drought implications on the value of South African red meat carcasses; A review</b> Z. Soji*, V. Muchenje, University of Fort Hare, South Africa
[P2.046]	<b>The response of small-scale fishers to the loss of food security and livelihoods caused by fishing policies in South Africa</b> G.M. Nkomo, Centre of Excellence for Food Security UWC, South Africa
[P2.047]	<b>Land use implications of pathways to deliver future food security and the cost of reducing land available for agriculture.</b> N. Fitton*, P. Smith, University of Aberdeen, UK
[P2.048]	<b>Macroeconomic factor influence on agricultural program sustainability in Nigeria</b> P.L. Hatzenbuehler*, G. Mavrotas, IFPRI, Nigeria
[P2.049]	<b>The impact of multi-stakeholder platforms on farmers' innovation in developing countries</b> C.L. Barzola Iza*, D.D. Dentoni, Wageningen University, The Netherlands
[P2.050]	<b>Gendered roles and relations effect on food production and distribution: the case of African indigenous vegetables in Kenya</b> R.W. Githiga*, E.A. Oketch, Humboldt Universität zu Berlin,, Germany
[P2.051]	<b>Enhancing adaptive capacity for farming communities in South Africa in the face of climate change – the role of education</b> K. Nhundu* <sup>1</sup> , L. Zhou <sup>2</sup> , A. Mushunje <sup>2</sup> , <sup>1</sup> Agricultural Research Council, South Africa, <sup>2</sup> University of Fort Hare, South Africa
[P2.052]	<b>The current state of food sovereignty and the trajectories of change of food systems in Laikipia, Kenya and the Nacala corridor, Mozambique</b> K. Dekeyser* <sup>1</sup> , A. Reys <sup>1</sup> , W. Anseeuw <sup>1</sup> , <sup>1</sup> Centre for the Study of Governance Innovation, South Africa,

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[P2.053]	<b>Measuring efficiency of floodplain aquaculture management of Bangladesh using Slack-based Data Envelopment Analysis</b> Y. Bayazid <sup>1</sup> , C. Umetsu* <sup>2</sup> , H. Hamasaki <sup>1</sup> , T. Miyanishi <sup>1</sup> , <sup>1</sup> <i>Nagasaki University, Japan</i> , <sup>2</sup> <i>Kyoto University, Japan</i>
[P2.054]	<b>Mapping and understanding urban food provisioning in West Africa</b> H. Karg* <sup>1,2</sup> , E.K. Akoto-Danso <sup>1</sup> , L. Amprako <sup>1</sup> , P. Drechsel <sup>3</sup> , T. Allen <sup>4</sup> , P. Heinrigs <sup>4</sup> , A. Drescher <sup>5</sup> , A. Buerkert <sup>1</sup> , <sup>1</sup> <i>University of Kassel, Germany</i> , <sup>2</sup> <i>University of Freiburg, Germany</i> , <sup>3</sup> <i>International Water Management Institute, Sri Lanka</i> , <sup>4</sup> <i>OECD Sahel &amp; West Africa Club, France</i> , <sup>5</sup> <i>University of Erlangen-Nuremberg, Germany</i>
[P2.055]	<b>The baobab processing sector in Malawi: Lessons for food security and nutrition in sub-Saharan Africa</b> C.C. Msadala* <sup>1</sup> , B.A. Gangata <sup>1</sup> , C.R.Y. Munthali <sup>1</sup> , K. Meinhold <sup>2</sup> , D. Darr <sup>2</sup> , <sup>1</sup> <i>Mzuzu University, Malawi</i> , <sup>2</sup> <i>Rhine-Waal University of Applied Sciences, Germany</i>
[P2.056]	<b>Food policy in emerging powers - Is focus on self-sufficiency rising in line with neo-mercantilist and neo-realist predictions?</b> I. Petrikova, <i>Royal Holloway, UK</i>
[P2.057]	<b>Impact Evaluation of Safety Net on Poverty Reduction and Food Security Improvement among Chronically Food Insecure Households</b> A. Teklehaimanot*, T. Taddese, D. Woldelibanos, <i>Mekelle University, Ethiopia</i>
[P2.058]	<b><i>Social stratification of perceived food availability and food affordability. Preliminary results from the first round of data collection in the research project: What's to eat? Women, children and the urban food environment of Addis Ababa (EAT Addis)</i></b> E-C. Ekström* <sup>1</sup> , M. Jirstrom <sup>2</sup> , B. Alsanus <sup>3</sup> , Y. Berhane <sup>4</sup> , C. Turner <sup>2</sup> , H. Yemane <sup>4</sup> , <sup>1</sup> <i>Uppsala University, Sweden</i> , <sup>2</sup> <i>Lunds University, Sweden</i> , <sup>3</sup> <i>Swedish University of Agricultural Sciences, Sweden</i> , <sup>4</sup> <i>Addis Continental Institute of Public Health, Ethiopia</i>
[P2.059]	<b>Morphological and nutritional diversity of bambara groundnut germplasm collection at Agricultural Research Council, South Africa</b> N.G. Lebaka* <sup>1</sup> , M.T. Labuschagne <sup>1</sup> , J. Siwale <sup>1</sup> , G. Osthoff <sup>1</sup> , A. Hugo <sup>1</sup> , A. Gerrano <sup>2</sup> , <sup>1</sup> <i>University of Free State, South Africa</i> , <sup>2</sup> <i>Agricultural Research Council, South Africa</i>
[P2.060]	<b>Links between agricultural production and women food insecurity in central-eastern Tunisia</b> C. Gaillard* <sup>1</sup> , P.M. Bosc <sup>1</sup> , S. Dury <sup>1</sup> , M. Medina Study Group <sup>2,1</sup> , <sup>1</sup> <i>CIRAD, France</i> , <sup>2</sup> <i>INRA, France</i>
[P2.061]	<b>The dilemma of motherhood-a qualitative exploration of child care and feeding experience of the urban poor in Addis Ababa, Ethiopia. Findings from the EAT Addis project</b> H.Y. Berhane* <sup>1,2</sup> , E.C. Ekström <sup>1</sup> , M. Jirstrom <sup>3</sup> , Y. Berhane <sup>2</sup> , C. Turner <sup>3</sup> , B. Alsanus <sup>4</sup> , J. Trenholm <sup>1</sup> , <sup>1</sup> <i>Uppsala University, Sweden</i> , <sup>2</sup> <i>Addis Continental Institute of Public Health, Ethiopia</i> , <sup>3</sup> <i>Lund University, Sweden</i> , <sup>4</sup> <i>Swedish University of Agricultural Sciences, Sweden</i>
[P2.062]	<b>Virtual water flow patterns in food commodity trade systems in two West African cities</b> E.K. Akoto-Danso* <sup>1</sup> , H. Karg <sup>1,2</sup> , P. Drechsel <sup>3</sup> , A. Buerkert <sup>1</sup> , <sup>1</sup> <i>University of Kassel, Germany</i> , <sup>2</sup> <i>University of Freiburg, Germany</i> , <sup>3</sup> <i>International Water Management Institute, Sri Lanka</i>
[P2.063]	<b>Food insecurity in Ilembe: Creating the coping strategies index</b> R. Drysdale*, M. Moshabela, U. Bob, <i>University of KwaZulu-Natal, South Africa</i>
[P2.064]	<b>Food security and carbon-neutral value chains: the case of the world's first carbon-neutral coffee</b> A. Birkenberg*, R. Birner, <i>University of Hohenheim, Germany</i>
[P2.065]	<b>Urban transitions and diets - lessons from India</b> C. Bren d'Amour* <sup>1,2</sup> , B. Pandey <sup>3</sup> , M. Reba <sup>1</sup> , F. Creutzig <sup>1,2</sup> , K.C. Seto <sup>3</sup> , <sup>1</sup> <i>Mercator Research Institute on Global Commons and Climate Change, Germany</i> , <sup>2</sup> <i>Technische Universität Berlin, Germany</i> , <sup>3</sup> <i>Yale University, USA</i>
[P2.066]	<b>Providing more than just employment? Evidence from the NREGA in India</b> S. Hari <sup>2</sup> , K. Raghunathan* <sup>1</sup> , <sup>1</sup> <i>International Food Policy Research Institute, India</i> , <sup>2</sup> <i>New York University, USA</i>
[P2.067]	<b>Commercialization of food crops and the poor's well-being: A case of Tanzania</b> J.K. Urassa, <i>Sokoine University of Agriculture, Tanzania</i>
[P2.068]	<b>The contrast, women's role in agricultural production, food and nutrition security</b> K.D. Naidoo, <i>University of KwaZulu-Natal, South Africa</i>
[P2.069]	<b>Socio-demographic profile and determinants of obesity in food-insecure adults living in resource-poor communities of South Africa: STOP-SA longitudinal study</b>

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[P2.070]	<b>Assessing farmer perceptions and acceptability of Provitamin A biofortified maize: A proxy for the integration of orange/yellow maize into smallholder farming system in South Africa</b> M.K. Zuma* <sup>1</sup> , U. Kolanisi <sup>1,2</sup> , A.T. Modi <sup>1</sup> , <sup>1</sup> University of Kwazulu Natal, South Africa, <sup>2</sup> University of Zululand, South Africa
[P2.071]	<b>Pathways to increase nutrition diversity while reducing women's workload in Ethiopia</b> A. Debarry*, S. Nischalke, T. Beuchelt, <i>University of Bonn, Germany</i>
[P2.072]	<b>The myth of the market queens: A case study of women and power in Ghanaian markets</b> L. Scheiterle*, R. Birner, <i>University of Hohenheim, Germany</i>
[P2.073]	<b>Prevalence of food insecurity and its correlates among young people in Ghana and South Africa</b> R. Masa* <sup>1</sup> , G.A. Chowa <sup>1,2</sup> , L. Graham <sup>2</sup> , L. Patel <sup>2</sup> , I. Osei-Akoto <sup>3</sup> , Z. Khan <sup>2</sup> , L. Williams <sup>2</sup> , S. Mthembu <sup>2</sup> , <sup>1</sup> University of North Carolina at Chapel Hill, USA, <sup>2</sup> Centre for Social Development in Africa, South Africa, <sup>3</sup> Institute of Statistical, Social and Economic Research, Ghana
[P2.074]	<b>Utilize the power of aspirations to guide rural development</b> K. Mausch* <sup>1</sup> , D. Harris <sup>2</sup> , E. Heather <sup>3</sup> , E. Jones <sup>4</sup> , M. Hauser <sup>1</sup> , J. Yim <sup>4</sup> , <sup>1</sup> International Crops Research Institute for the Semi-Arid Tropics, Kenya, <sup>2</sup> Worldagroforestry Centre, Kenya, <sup>3</sup> Ogilvy Change, UK, <sup>4</sup> Bangor University, UK
[P2.075]	<b>Can South African low-income consumer afford healthy eating? Considering a balanced basic food basket approach</b> H. Vermeulen* <sup>1,2</sup> , H.C. Schönfeldt <sup>2,3</sup> , <sup>1</sup> PhD student University of Pretoria (bursary holder Centre of Excellence (COE)), South Africa, <sup>2</sup> Bureau for Food and Agricultural Policy (BFAP), South Africa, <sup>3</sup> University of Pretoria, South Africa
[P2.076]	<b>Returns to market coordination mechanism and implications for the bilateral contractual arrangement for supply of common Beans in Uganda</b> R.M. Ariong* <sup>1,2</sup> , J. Ilukor <sup>1</sup> , J. Bonanbana-Wabbi <sup>1</sup> , M. Ugen <sup>2</sup> , E.A. Birach <sup>3</sup> , <sup>1</sup> Makerere University, Uganda, <sup>2</sup> National Crop Resources Research Institute, Uganda, <sup>3</sup> International Center for Tropical Agriculture, Uganda
[P2.077]	<b>Challenges in the local food security through the Nordic perspective – a case study of Finland</b> E. Lehtikoinen, <i>Aalto University, Finland</i>
[P2.078]	<b>Cassava, the 21<sup>st</sup> century crop for smallholders? – Exploring the role of innovations along the livelihood – value chain nexus in Malawi</b> K. Droppelmann*, P. Guenther, F. Kamm, U. Rippke, C. Voigt, B. Walenda, <i>Humboldt-Universität zu Berlin, Germany</i>
[P2.079]	<b>Access to diversified foods in a rural area of Telangana: Understanding and measuring its components</b> K. Archana*, K. Madhavan.Nair, G.M. Subba.Rao, <i>National Institute of Nutrition (ICMR), India</i>
[P2.080]	<b>Assessing yield gaps in smallholder cocoa systems along a climatic gradient in Ghana</b> I. Abdulai* <sup>1</sup> , M.P. Hoffmann <sup>1</sup> , L. Jassogne <sup>2</sup> , R. Asare <sup>3</sup> , S. Graefe <sup>4</sup> , H-H. Tao <sup>1</sup> , S. Vaast <sup>6</sup> , P. Van Asten <sup>2,7</sup> , P. Läderach <sup>9</sup> , R.P. Rötter <sup>1,9</sup> , <sup>1</sup> University of Goettingen, Germany, <sup>2</sup> International Institute of Tropical Agriculture (IITA), Uganda, <sup>3</sup> International Institute of Tropical Agriculture (IITA), Ghana, <sup>4</sup> University of Goettingen, Germany, <sup>5</sup> World Cocoa Foundation, Ghana, <sup>6</sup> UMR Eco&Sols, Centre de Coopération Internationale en Recherche Agronomique pour le Développement (CIRAD), France, <sup>7</sup> Olam International, Uganda, <sup>8</sup> International Center for Tropical Agriculture (CIAT), Viet Nam, <sup>9</sup> University of Goettingen, Germany
[P2.081]	<b>The Missing Middle: Bridging agricultural production and food consumption in low- and middle-income countries to achieve SDG 2</b> L.J.L. Veldhuizen* <sup>1</sup> , I.J.M. de Boer <sup>1</sup> , I.D. Brouwer <sup>1</sup> , K.E. Giller <sup>1</sup> , S. Janssen <sup>2</sup> , P. Oosterveer <sup>1</sup> , M.A. Slingerland <sup>1</sup> , <sup>1</sup> Wageningen University, The Netherlands, <sup>2</sup> Wageningen Environmental Research, The Netherlands
[P2.082]	<b>The role of alternative food distribution measures in addressing food security: A review of the Food Justice Truck</b> B. Haines, F.H. McKay*, M. Dunn, <i>Deakin University, Australia</i>
[P2.083]	<b>Impact of the business services for farmers' organizations (ESOP) contract farming model on paddy producers' income and food and nutritional security in Dangbo district of Benin</b> S.R. Kaki* <sup>1</sup> , G.B. Honfoga <sup>1</sup> , A.A. Kemonou Davo <sup>2</sup> , A.A. Adégbidi <sup>1</sup> , <sup>1</sup> University of Abomey-Calavi, Benin,

	<i><sup>2</sup>Independent Expert in Business and Management Monitoring, Benin</i>
[P2.084]	<b>Food insecurity and coping strategies among women asylum seekers and refugees in Durban, South Africa</b> C. Napier*, M. Makhaya, <i>Durban University of Technology, South Africa</i>
[P2.085]	<b>Food security before reading, writing, and arithmetic: basic needs first. academic potential second.</b> D. Drexel, <i>Molloy College, USA</i>
[P2.086]	<b>Preliminary study on developing a simple, rapid and sensitive method to detect <i>Escherichia coli</i> in food samples</b> B.H.K. Perera, P.D.P.M. De Silva, E.D.N.S. Abeyrathne*, <i>Uva Wellassa University, Sri Lanka</i>
[P2.087]	<b>Ecological intensification in co-innovation approach for livestock production: Three dimensions of the food security</b> O. Blumetto*, A. Castagna, G. Cardozo, A. Rugia, G. Tiscornia, M.M. Albicette, V. Aguerre, <i>INIA, Uruguay</i>
[P2.088]	<b>Democratisation of agricultural systems: Linking food security and democracy in Africa</b> C. Mlambo*, P. Mukarumbwa, <i>University of Fort Hare, South Africa</i>
[P2.089]	<b>Challenges and opportunities of developing cowpea for food and nutrition secure south Sudan</b> T. Ngalamu* <sup>1,2</sup> , S.K. Meseka <sup>1</sup> , N.J. Tongun <sup>1</sup> , M.A. Oliwai <sup>1</sup> , N.W. Ochanda <sup>1</sup> , <sup>1</sup> <i>University of Juba, Sudan</i> , <sup>2</sup> <i>University of Ghana, West Africa Centre for Crop i, Ghana</i>
[P2.090]	<b>Market production household resource allocation and food security: The gender dimension</b> P.R. Ntakyu* <sup>1,2</sup> , M.M. Berg <sup>1</sup> , <sup>1</sup> <i>Wageningen University, The Netherlands</i> , <sup>2</sup> <i>National Agricultural Research Organization, Uganda</i>
[P2.091]	<b>The potential impacts of climate change on rice yields in Africa and options for adaptation</b> P.A.J. van Oort, S.J. Zwart*, K. Saito, <i>Africa Rice Center (AfricaRice), Cote D'Ivoire</i>
[P2.092]	<b>Impact evaluation of drip irrigation and its long-term viability in arid northwestern China</b> L.Y. Khor* <sup>1</sup> , T. Feike <sup>1</sup> , <sup>1</sup> <i>University of Hohenheim, Germany</i> , <sup>2</sup> <i>Julius Kühn-Institute, Germany</i>
[P2.093]	<b>Hydropower dams and food security in Mekong river communities</b> S. Uthai*, E. Saichan, <i>Chiang Mai University, Thailand</i>
[P2.094]	<b>The Interface between Quelea Birds (<i>Quelealathamii</i>) and millet farmers in Chipinge District, Zimbabwe. A Quest for ecological sustainability</b> B. Chazovachii, <i>Great Zimbabwe University, Zimbabwe</i>
[P2.095]	<b>Variation in growth, yield and grain mineral accumulation of Bambara groundnuts landraces in Swaziland.</b> S.T. Dlamini*, F.D. Dakora, <i>Tshwane University of Technology, South Africa</i>
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[P2.097]	<b>Scaling-up model of an innovation to improve food security and nutrition</b> T. Mosquera-Vasquez* <sup>1</sup> , H. Melgar-Quiñonez <sup>2</sup> , D. Cuéllar-Gálvez <sup>1</sup> , <sup>1</sup> <i>National University of Colombia, Colombia</i> , <sup>2</sup> <i>McGill University, Canada</i>
[P2.098]	<b>Did agricultural input subsidy increase the diversity of food consumption? - the case of Tanzania</b> T. Kato <sup>1</sup> , <sup>1</sup> <i>Kyoto University, Japan</i> , <sup>2</sup> <i>Tokyo University of Foreign Studies, Japan</i>
[P2.099]	<b>Application of the DPSIR framework for the optimization of hilsa fisheries management - a case study from Bangladesh</b> M.M.H. Mozumder* <sup>1</sup> , P. Haapasaari <sup>2</sup> , P. Schneider <sup>3</sup> , J. Tobey <sup>4</sup> , A.B.M.M. Haque <sup>5</sup> , M.M. Shamsuzzaman <sup>6</sup> , <sup>1</sup> <i>University of Helsinki, Finland</i> , <sup>2</sup> <i>University of Helsinki, Finland</i> , <sup>3</sup> <i>University of Applied Sciences Magdeburg, Germany</i> , <sup>4</sup> <i>University of Rhode Island, Germany</i> , <sup>5</sup> <i>WorldFish, Bangladesh</i> , <sup>6</sup> <i>Sylhet Agricultural University, Bangladesh</i>
[P2.0100]	<b>Role of soil micronutrients and fertilizer management in crop nutrition under contrasting smallholder cropping</b> M.G. Manzeke* <sup>1</sup> , F. Mtambanengwe <sup>1</sup> , M.J. Watts <sup>2</sup> , R.M. Lark <sup>2</sup> , M.R. Broadley <sup>3</sup> , P. Mapfumo <sup>1</sup> , <sup>1</sup> <i>University of Zimbabwe, Zimbabwe</i> , <sup>2</sup> <i>British Geological Survey, UK</i> , <sup>3</sup> <i>University of Nottingham, UK</i>
[P2.101]	<b>Perceptions on Organic Farming and Selected Organic Fertilizers by Subsistence Farmers in Ga-Rankuwa, Pretoria, South Africa</b> L.L. Mugivhisa*, J.O. Olowoyo, D. Mzimba, <i>Sefako Makgatho Health Sciences University, South Africa</i>
[P2.102]	<b>The outcome of women's intra-household decision-making power regarding Ethiopian household's</b>

	<p><b>nutritional and social livelihood outcomes</b> O. Sariyev, T. Loos*, M. Zeller, <i>Hans-Ruthenberg Institute, University of Hohenheim, Germany</i></p>
[P2.103]	<p><b>The influence of exogenously applied vanadium on the physiology and molecular response of <i>Chenopodium murale</i> under low soil pH conditions</b> M. Nkomo*<sup>1,2</sup>, A. Gokul<sup>1</sup>, S. Bali<sup>1</sup>, P. Menzi<sup>1</sup>, M. Badiwe<sup>1</sup>, M. Keyster<sup>1</sup>, B. Ndimba<sup>2</sup>, A. Klein<sup>1</sup>, <sup>1</sup><i>University of the Western Cape, South Africa, South Africa, <sup>2</sup>Agricultural Research Council, Infruitec, Stellenbosch, South Africa</i></p>
[P2.104]	<p><b>Analysis of market perception and preferences of desired traits in improved Pigeon pea (<i>Cajanus cajan</i>) cultivars in India</b> I. Fromm*<sup>1</sup>, U. Egger<sup>1</sup>, A. Singh<sup>2</sup>, <sup>1</sup><i>Bern University of Applied Sciences, Switzerland, <sup>2</sup>Indian Agricultural Research Institute, India</i></p>
[P2.105]	<p><b>Viscosity, protein and energy content of common commercial and indigenous complementary porridge samples in South Africa</b> J. Makame*, H.L. Dekock, N.M. Emmambux, <i>University of Pretoria, South Africa</i></p>
[P2.106]	<p><b>Urban food gardens and household food access: Evidence from Lesotho, South Africa and Zimbabwe</b> F. Booysen<sup>1,2</sup>, N. Dhorro<sup>3,2</sup>, S. Drimie*<sup>4,5</sup>, C. Walsh<sup>2</sup>, <sup>1</sup><i>Human Sciences Research Council (HSRC), South Africa, <sup>2</sup>University of the Free State (UFS), South Africa, <sup>3</sup>Great Zimbabwe University (GZU), Zimbabwe, <sup>4</sup>University of Stellenbosch, South Africa, <sup>5</sup>Southern Africa Food Lab (SAFL), South Africa</i></p>
[P2.107]	<p><b>Eliciting demand-side drivers of food security: A choice experiment in Northern Mozambique</b> E. Farmer, A.M. Shew*, L.L. Nalley, A.L. Farmer, H. Price, <i>University of Arkansas, USA</i></p>
[P2.108]	<p><b>Determinants of fruit and vegetable consumption diversity of smallholder farmers in Yayu biosphere reserve, SW-Ethiopia</b> J. Dürr*<sup>1</sup>, A. Teshome<sup>2</sup>, B. Assefa<sup>3</sup>, G. Keding<sup>1</sup>, <sup>1</sup><i>Center for Development Research, University of Bonn, Germany, <sup>2</sup>Environment and Coffee Forest Forum, Ethiopia, <sup>3</sup>Bahir Dar University, Ethiopia</i></p>
[P2.109]	<p><b>The trend of shopping behaviours and food security status in obesogenic food environment</b> F.A. Odunitan-Wayas*, E.V. Lambert, K.J. Okop, <i>University of Cape Town, South Africa</i></p>
[P2.110]	<p><b>The real value of intensifying mixed smallholder farming systems depends on adoption outcomes: a southern Lao case study</b> M. Monjardino*<sup>1</sup>, J. Philp<sup>2</sup>, G. Kuehne<sup>3</sup>, M. Denton<sup>2</sup>, V. Phimpachanhvongsod<sup>4</sup>, V. Sihathep<sup>5</sup>, <sup>1</sup><i>CSIRO, Australia, <sup>2</sup>University of Adelaide, Australia, <sup>3</sup>Meaningful Social Research, Australia, <sup>4</sup>National Agricultural and Forestry Research Institute, People's Democratic Republic of Lao, <sup>5</sup>Agriculture Research Center, People's Democratic Republic of Lao</i></p>
[P2.111]	<p><b>Antimicrobial resistance determinants of <i>Escherichia coli</i> isolates from the formal and informal meat sector in South Africa</b> I.F. Jaja*<sup>1</sup>, E. Green<sup>1,2</sup>, V. Muchenje<sup>1</sup>, <sup>1</sup><i>University of Fort Hare, South Africa, <sup>2</sup>University of Johannesburg, South Africa</i></p>
[P2.112]	<p><b>Weather information to assist local communities maintain culinary aspects of local culture</b> S. Walker*<sup>1,2</sup>, P. Maluleke<sup>1</sup>, <sup>1</sup><i>Agricultural Research Council, South Africa, <sup>2</sup>University of Free State, South Africa</i></p>
[P2.113]	<p><b>Potential contribution of wild harvested edible insects to nutrition security in rural and urban areas</b> F.A. Manditsera*<sup>1,2</sup>, P.A. Luning<sup>1</sup>, C.J. Zvidzai<sup>2</sup>, V. Fogliano<sup>1</sup>, C.M.M. Lakemond<sup>1</sup>, <sup>1</sup><i>Wageningen University and Research, The Netherlands, <sup>2</sup>Chinhoyi University of Technology, Zimbabwe</i></p>
[P2.114]	<p><b>A global level agent-based modelling approach to evaluate strategies to achieve food security on limited land within a changing environment</b> R.B. Matthews*<sup>1</sup>, J. Ge<sup>1</sup>, J.G. Polhill<sup>1</sup>, J. Reilly<sup>1</sup>, M. Aphale<sup>2</sup>, T. Dawson<sup>3</sup>, J. Macdiarmid<sup>2</sup>, P. Smith<sup>2</sup>, <sup>1</sup><i>James Hutton Institute, UK, <sup>2</sup>University of Aberdeen, UK, <sup>3</sup>Kings College London, UK</i></p>
[P2.115]	<p><b>Broadening the food base: Nutritional properties of <i>Rumex</i> species consumed as wild leafy vegetables</b> H.A. Seepe*, N.R. Sathekge, S.O. Amoo, C.P. du Plooy, <i>Agricultural Research Council, South Africa</i></p>
[P2.116]	<p><b>Child obesity and stunting in low-income households, Ilembe, KwaZulu-Natal</b> R. Drysdale, <i>University of KwaZulu-Natal, South Africa</i></p>
[P2.117]	<p><b>Evaluating success of the changing approach to food security: Case study of India</b> I. Petrikova, <i>Royal Holloway, UK</i></p>
[P2.118]	<p><b>Analysis of household food baskets and the implications on household hidden hunger and food security in Umsunduzi local municipality of KwaZulu-Natal</b> N. Shelembe*, M. Mudhara, U. Kolanisi, <i>UKZN, South Africa</i></p>

[P2.119]	<b>Improving the nutritional quality of pulses through optimum soaking procedures</b> T-Y. Habte*, C. Rubach, E. Dippel, M.B. Krawinkel, <i>Justus-Liebig-University Giessen, Germany</i>
[P2.120]	<b>What makes free range chicken free?</b> A. Coetzee* <sup>1</sup> , C. Kelly <sup>1,2</sup> , E. Even-Zahav <sup>1,2</sup> , <sup>1</sup> <i>School of Public Leadership, South Africa</i> , <sup>2</sup> <i>Sustainability Institute, South Africa</i>
[P2.121]	<b>Smallholder food security responses to drought</b> R. Falconer*, D. von Fintel, <i>Stellenbosch University, South Africa</i>
[P2.122]	<b>Food security: an exploration of women living with HIV/AIDS and disability in vulnerable contexts</b> H.E. Lister*, M. Pillay, <i>University of KwaZulu-Natal, South Africa</i>
[P2.123]	<b>Dietary assessment using the CIMI approach: A case study from three districts of the Ashanti region in Ghana</b> J.P. Wald* <sup>1</sup> , E.K. Asare <sup>1</sup> , E.K. Nakua <sup>2</sup> , E. Otupiri <sup>2</sup> , H.K. Biesalski <sup>1</sup> , D. Nohr <sup>1</sup> , <sup>1</sup> <i>University of Hohenheim, Stuttgart, Germany</i> , <sup>2</sup> <i>Kwame Nkrumah University of Science and Technology, Kumasi, Ghana</i>
[P2.124]	<b>Consumer acceptance and willingness to pay for instant fortified cereal products in Eldoret, Kenya</b> H. De Groote* <sup>1</sup> , V. Mugalavai <sup>2</sup> , G. Duodo <sup>3</sup> , M. Ferruzzi <sup>4</sup> , M. Ndegwa <sup>1</sup> , B. Hamaker <sup>5</sup> , <sup>1</sup> <i>CIMMYT, Kenya</i> , <sup>2</sup> <i>University of Eldoret, Kenya</i> , <sup>3</sup> <i>University of Pretoria, South Africa</i> , <sup>4</sup> <i>North Carolina State University, USA</i> , <sup>5</sup> <i>Purdue Univesrity, Kenya</i>
[P2.125]	<b>Traditional food consumption and food security in Windhoek, Namibia</b> N. Nickanor*, L. Kazembe, <i>University of Namibia, Namibia</i>
[P2.126]	<b>How do experiential measures of food security respond to economic shocks? Evidence from the Gallup world poll</b> A. D'Souza* <sup>1</sup> , S. Tandon <sup>2</sup> , M. Brown <sup>3</sup> , <sup>1</sup> <i>Baruch College (CUNY), USA</i> , <sup>2</sup> <i>World Bank, USA</i> , <sup>3</sup> <i>University of Maryland, USA</i>
[P2.127]	<b>Profitability of sweet potato enterprises in Limpopo province: A case study of Vhembe district</b> K. Libago* <sup>1,2</sup> , B. Taruvinga <sup>1</sup> , T.K. Pfumayaramba <sup>2</sup> , <sup>1</sup> <i>Agricultural Research Councils, South Africa</i> , <sup>2</sup> <i>University of Venda, South Africa</i>
[P2.128]	<b>Extraction of plant proteins from oilseeds as a component of global food security</b> E. Mupondwa* <sup>1,2</sup> , X. Li <sup>1</sup> , J. Wanasundara <sup>1</sup> , <sup>1</sup> <i>Agriculture and Agri-Food Canada, Government of Canada, Canada</i> , <sup>2</sup> <i>University of Saskatchewan, Canada</i>
[P2.129]	<b>The use of seasonal forecasts to improve Livestock farming in the Limpopo Province</b> P. Maluleke*, S. Walker, <i>University of the Free State, South Africa</i>
[P2.130]	<b>Potential impact of agronomic biofortification with zinc on Human health in Ethiopia</b> H. De Groote* <sup>1</sup> , N. Gunaratna <sup>2,3</sup> , S. Gameda <sup>4</sup> , A. Van de Walle <sup>5</sup> , M. Tessema <sup>6</sup> , <sup>1</sup> <i>CIMMYT, Kenya</i> , <sup>2</sup> <i>Harvard University, USA</i> , <sup>3</sup> <i>Purdue University, USA</i> , <sup>4</sup> <i>CIMMYT, Ethiopia</i> , <sup>5</sup> <i>University of Ghent, Belgium</i> , <sup>6</sup> <i>Ethiopian Public Health Institute, Ethiopia</i>
[P2.131]	<b>Assessing the status of international food sovereignty: The food debt</b> E. Oteros-Rozas <sup>1,2</sup> , A. Ruiz-Almeida <sup>3</sup> , M. Aguado Caso <sup>4</sup> , J.A. González <sup>5</sup> , A.I. Palomino <sup>6</sup> , M.G. Rivera-Ferre* <sup>7</sup> , <sup>1</sup> <i>Universidad Pablo de Olavide, Spain</i> , <sup>2</sup> <i>University of Copenhagen, Denmark</i> , <sup>3</sup> <i>Sustainability Measurement and Modeling Lab, Spain</i> , <sup>4</sup> <i>Escuela Politécnica Nacional, Ecuador</i> , <sup>5</sup> <i>Universidad Autónoma de Madrid, Spain</i> , <sup>6</sup> <i>Universidad de Cundinamarca, Colombia</i> , <sup>7</sup> <i>University of Vic, Spain</i>
[P2.132]	<b>Determinants of seasonal participation in maize markets in Zambia: Do agricultural input subsidies matter?</b> F. Simtowe*, H. De Groote, <i>CIMMYT, Kenya</i>
[P2.133]	<b>Open data and food security: Enhancing transparency to improve resource governance</b> Z.T. Kota, <i>Rhodes University, South Africa</i>
[P2.134]	<b>Together against risk factors for malnutrition and metabolic dysfunctions: The science-driven network of NOODLES organizations in Africa</b> C. Frazzoli* <sup>1</sup> , G.B. Pouokam <sup>2,3</sup> , K. Djimadoum <sup>2,4</sup> , R. Esposito <sup>5</sup> , F.C. Kane <sup>6,7</sup> , O.E. Orisakwe <sup>8,9</sup> , <sup>1</sup> <i>Istituto Superiore di Sanità, Italy</i> , <sup>2</sup> <i>University of Yaoundé I, Cameroon</i> , <sup>3</sup> <i>Noodles Cameroon, Cameroon</i> , <sup>4</sup> <i>Noodles Chad, Chad</i> , <sup>5</sup> <i>Noodles onlus, Italy</i> , <sup>6</sup> <i>Universite Cheick Anta Diop University, Senegal</i> , <sup>7</sup> <i>Noodles Senegal, Senegal</i> , <sup>8</sup> <i>University of Port Harcourt, Nigeria</i> , <sup>9</sup> <i>Noodles Nigeria, Nigeria</i> , <sup>10</sup> <i>University of Manitoba, Nigeria</i> , <sup>11</sup> <i>Catholic University, Cameroon</i> , <sup>12</sup> <i>Joint Reserach Center, Spain</i>
[P2.135]	<b>Food security: impact evaluation of the Zero Hunger programme in Brazil</b> C. Dyngeland*, K. Evans, J. Oldekop, C. Twyman, <i>University of Sheffield, UK</i>
[P2.136]	<b>Small-scale farmers struggling with agrarian transformation: Investigating food sovereignty in rural</b>



	<b>Myanmar</b> A. Debarry, <i>University of Bonn, Germany</i>
[P2.137]	<b>Animal production and hunger: Disconnection between livestock and food in Mozambique</b> M. del Valle* <sup>1</sup> , R. Hernández <sup>2</sup> , J.P. del Valle <sup>1</sup> , J.L. Riveros <sup>1</sup> , <sup>1</sup> <i>Pontificia Universidad Católica de Chile, Chile</i> , <sup>2</sup> <i>Universidad de Chile, Chile</i>
[P2.138]	<b>Do school meal programs affect children's nutritional status in a context of high overweight prevalence?</b> J.C. Caro* <sup>1</sup> , C. Corvalan <sup>2</sup> , <sup>1</sup> <i>University of North Carolina, USA</i> , <sup>2</sup> <i>Universidad de Chile, Chile</i>
[P2.139]	<b>Will indigenous, underutilized, underexploited, and wild food and feed sources play a role in sustainable food and nutrition security in South Africa?</b> M.A.T. Poswal*, C.T. Kadzere, <i>Dohne Agricultural Development Institute, South Africa</i>
[P2.140]	<b>Prevalence of anaemia and its associated factors among adolescent females in Okrika, Rivers State, Nigeria</b> O.R. Aderibigbe* <sup>1</sup> , P.O. Ukegbu <sup>2</sup> , <sup>1</sup> <i>National Horticultural Research Institute, Nigeria</i> , <sup>2</sup> <i>Michael Okpara University of Agriculture, Umudike, PMB 7267 Umuahia, Abia State, Nigeria</i>
[P2.141]	<b>Usage and acceptability of elephant grass (<i>Pennisetum purpureum</i> L. Schumach) "achara" in Umuahia Nigeria: Implication for Global Food Security</b> N. Akah*, J. Onweluzo, C. Onyeonagu, E. Onwurafor, <i>University of Nigeria Nsukka, Nigeria</i>
[P2.142]	<b>Agro-food system change in Mumbwa district, Zambia: Implications for small-scale farmer's food security and food rights</b> R.M. Joala, <i>University of the Western Cape, South Africa</i>
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[P2.144]	<b>Micronutrient intakes, intra-household food allocation and child stunting in Nigeria</b> O. Fadare* <sup>1</sup> , O. Kuku <sup>2</sup> , D. Akerele <sup>3</sup> , M. Oyeyemi <sup>1</sup> , <sup>1</sup> <i>International Food Policy Research Institute, Nigeria</i> , <sup>2</sup> <i>Food Basket Foundation International, Nigeria</i> , <sup>3</sup> <i>Federal University of Agriculture, Abeokuta, Nigeria</i>
[P2.145]	<b>Child food security relates to dietary diversity and nutrition status of Under-5y Children in Rural India</b> R.C. Dripta*, F.R. Sylvia, N. Balakrishna, K.V. Radhakrishna, G. Sudip, K. Madhavan Nair, <i>National Institute of Nutrition (ICMR), Hyderabad, India</i>
[P2.146]	<b>Assessment of food knowledge, perceptions and diet culture of caregivers of school-age children: Findings from focus group studies</b> K. Archana*, K. Madhavan Nair, G.M. Subba Rao, <i>National Institute of Nutrition (ICMR), India</i>
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