



16th Triennial Symposium

International Society for Tropical Root Crops

THEME:

**THE ROOTS (*AND TUBERS*)
OF DEVELOPMENT AND
CLIMATE CHANGE**

Book of Abstracts/Conference Programme

Sunday 23rd Friday 28th September 2012.

Federal University of Agriculture, Abeokuta, Ogun State, Nigeria

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SYMPOSIUM PROGRAMME

Time	Event	Venue
Sunday: September 23, 2012		
4pm – 10pm	Arrival and Registration of Participants	
	Contact:	
	Reception of participants and collection of fees, name badges	
4pm – 10pm	Erection of Exhibition Stands	
Monday: September 24, 2012		
8am – 9:45am	Arrival of guests and participants	Auditorium
10am – 11:45	Opening Ceremony (Master of Ceremony)	
	1. Opening Prayer	
	2. Introduction of Guests	
	3. ISTRC President's Welcome Address	
	4. Welcome Address by the Vice Chancellor	
	5. Chairman's Opening Speech	
	6. Goodwill message ISTRC-AB president	
	7. Goodwill message Executive Director NRCRI	
	8. Goodwill message Director General of IITA	
	9. Goodwill message Governor of Ogun state	
	10. Keynote Speech: Dr. Akin Adesina, Honourable Minister, Federal Ministry of Agriculture and Rural Development, Federal Republic of Nigeria	
	11. Vote of thanks	
	12. Announcements	
11:45-12:45	Group Photograph	
	Visit to exhibition stands (International and National agencies, farmers, industries, Banks, Arts&cultural)	Library park
	Tea/Coffee Break	Auditorium

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Federal University of Agriculture, Abeokuta, Nigeria. 23rd - 28th Sept., 2012

Time	Event	Presenter	Venue
12:45-2:20pm	Plenary Session A		Auditorium
	Global Scenario on Production of Tropical Root Crops and Threat of Climate Change in South Pacific	Satish Chandra	
	Progress in yam genome sequencing and its potential applications	Mull	
	Global Cassava Utilization- Revisited	Truman P Phillips	
	Realizing the potential of tropical root and tuber crops	Andrew Westby	
	Root and tuber crops in West and Central Africa Region	Malachy Akoroda	
	Building a strong partnership for cassava development	Louw Burger	
	Sustaining the inclusion policy: our road map	Keith Sutherland	
	Comments, Questions and Answers		
2:20pm – 3:00pm	Lunch Break & movement to ISC		
3:00-4:30pm	Breakout Session A		ISG1, ISG2, ISG3, ISG4, ISG5, ISG6
	Announcements		
4:30pm – 5:00pm	Tea/Coffee Break		
5:00-6:00 pm	Special group meetings		
	Erection of Poster Stands – Subthemes A and B		
	Cultural, Nollywood, Comedy		

Tuesday: September 25, 2012		
Time	Event	Venue
7am – 8:00am	Arrival	
8:30am – 11:00am	Plenary Session B	CRP RTB special session Auditorium
	Comments, Questions and Answers	
	Announcements	
11.00am – 11:30am	Tea/Coffee Break	
11:30am – 1:00pm	Plenary Session C	YIFSWA special session Auditorium
	Comments, Questions and Answers	
	Announcements	
1pm – 2:30pm	Lunch Break & movement to ISC	
2.30am – 3:00pm	Poster Sessions – Subthemes A and B	ISC
3:00pm – 4:30pm	Breakout Session B	ISC-1 (Yam special session)(MAFF,USAID,JIRCAS,NRI,ITC), ISC-2 (Harvest plus special session), ISC-3, ISC-4, ISC-5, ISC-6
	Comments, Questions and Answers	
	Announcements	
4:30pm – 5:00pm	Tea/Coffee Break	
5:00-7:00 pm	Special group meetings	ISC-1 (30 minute presentation by Rodomiro Ortiz; discussion of genome wide selection in roots, tubers and bananas), ISC-2 (EU/ACP), ISC-3 (C:AVA) (Pg 153)
	Dismantling of Poster Stands – Subthemes A and B	
	Erection of Poster Stands – Subthemes C and D	

Wednesday: September 26, 2012		
Time	Event	Venue
8:30am – 10:00am	Breakout Session C	ISC-1, ISC-2, ISC-3, ISC-4, ISC-5, ISC-6 (1st Consultative Meeting on the Improvement of Root Crop Seed Systems in Tropical Agriculture)
	Comments, Questions and Answers	
10:00am – 11:30am	Breakout Session D	ISC-1, ISC-2, ISC-3, ISC-4, ISC-5, ISC-6
	Comments, Questions and Answers	
	Announcements	
11.30am – 12:00pm	Poster Sessions – Subthemes C and D; Tea/Coffee Break	ISC
12.00am – 1pm	Visit of FUNAAB Demonstration Farm	Demonstration farm
1pm – 2:30pm	Lunch Break	
3:00pm – 6:00pm	Annual General Meeting (AGM) of ISTRC	Auditorium
	Award Presentation 1	
	Announcements	
	Vote of thanks	
6pm – 8pm	Meeting Dinner	
	Cultural, Nollywood, Comedy	

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Thursday: September 27, 2012		
Time	Event	Venue
8am – 3pm	Excursion IITA, University of Ibadan or Thai Farms, or Ekha Agro Lunch Break	
5:00-7:00 pm	Special group meetings	ISC-1 (ATA), ISC -2 (Sasha), ISC-3 (Gratitude), ISC-4, ISC-5, ISC-6, ISC-7, ISC-8
	Cultural, Nollywood, Comedy	
Friday: September 28, 2012		
8:30 – 10:00am	Breakout Session E Comments, Questions and Answers	ISC-1, ISC-2, ISC-3, ISC-4, ISC-5, ISC-6
10:00 – 10:30am	Tea/Coffee Break	
10:30 – 12:00am	Breakout Session F Comments, Questions and Answers	ISC-1, ISC-2, ISC-3, ISC-4, ISC-5, ISC-6
	Announcements	
12:00 – 1.30pm	Closing Award Presentation 2	Auditorium
	Appreciation	
1:30 – 2:30pm	Lunch Break	
2:30 – 6:00pm	Optional: Olumo rock, Adire market, Abeokuta visit	
	Dismantling of Exhibition Stands	
Saturday: September 29, 2012		
All day	Departure	

Oral Presentations

Monday: September 24, 2012

Plenary Session A

Venue: Auditorium

	Title of paper	Presenter
1	Global Scenario on Production of Tropical Root Crops and Threat of Climate Change in South Pacific	Satish Chandra (Pg 37)
2	Progress in yam genome sequencing and its potential applications	Muluneh T. (Pg 38)
3	Global Cassava Utilization - Revisited	Truman P Phillips (Pg 39)
4	Realizing the potential of tropical root and tuber crops	Andrew Westby (Pg 40)
5	Root and tuber crops in West and Central Africa Region	Malachy Akoroda (Pg 41)
6	Building a strong partnership for cassava development	Louw Burger (Pg 42)
7	Sustaining the inclusion policy: our road map	Keith Sutherland (Pg 43)

Breakout Session A

SN	ISC 1	
	Title of paper	Presenter
1	Genotype x Environment Interactions for a Diverse Set of Sweetpotato Clones Evaluated across Drought Prone Environments of Mozambique	Maria Andrade (Pg 44)
2	Transgenic RNAi-derived Field Resistance to Cassava Brown Streak Disease	E. Ogwok (Pg 45)
3	Comparison between morphological and molecular markers in the analysis of genetic diversity in <i>Amorphophallus</i> Blume ex Decne.	Shirly Raichal Anil (Pg 46)
4	Phenotypic and molecular characterization of released sweetpotato varieties and pathogen-tested putative ramets in Ghana	V.A. Amankwaah (Pg 47)
5	Morphological variability within a ploidy level in <i>Dioscorea alata</i> L. germplasm	O.O. Adeigbe (Pg 48)
6	Progeny selection for productivity in segregating families of cassava	D.K. Kilusinga (Pg 49)

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Breakout Session A

SN	ISC 2		ISC 3	
	Title of paper	Presenter	Title of paper	Presenter
1	Influence of plant density on the yield of three cassava varieties	P.O. Iluebey (Pg 50)	The Effect Of Temperature-Time Regime On The Proximate Composition and Reduction Of Oxalate Content of Beetroot Juice	Adeboye A.S (Pg 56)
2	Farmer Participatory Evaluation of 8 elite clones of cocoyam (<i>Xanthosoma sagittifolium</i> , Linn, Schott) at the forest agroecological zone of Ghana	E.L. Omenyo (Pg 51)	Cassava Value Chain Development in West Africa: Successes, Challenges and Lessons Learnt	L.O. Sanni (Pg 57)
3	Indigenous Climate-Change Adaptation And Mitigation Technologies For Sustainable Roots And tuber Crop Productivity In Africa	C.I. Duruigbo (Pg 52)	Chemical Composition and the Effect of Processing on Oxalate Content of Cocoyam (<i>Xanthosoma sagittifolium</i>) and (<i>Colocasia esculenta</i>) Cormels	O.E. Afoakwa (Pg 58)
4	Adaptability of irrigated orange-fleshed sweetpotato (<i>Ipomoea batatas</i> [L.] Lam) genotypes in different agro-ecological zones of Malawi	D.M. Kathabwalika (Pg 53)	Physicochemical Properties of Sweet Potato Flours as Affected by Processing Methods in Sierra Leone	S. Sowe (Pg 59)
5	Organic Production of Yams: An Eco - friendly Strategy for Sustainable Yield, Tuber Quality and Soil Health	G. Suja (Pg 54)	Sensory evaluation and consumer acceptability of orange-fleshed sweetpotato by pregnant women and children <2 years in Western Kenya	Oyunga-Ogubi M.A. (Pg 60)
6	Improving farmers 'access to clean planting material through partnership in the value chain	J. Ndirigwe (Pg 55)	Minimally processed yam fries - the effect of blanching and par-frying pretreatments on product quality	S. Graham-Acquaah (Pg 61)

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Breakout Session A

SN	ISC 4		ISC 5	
	Title of paper	Presenter	Title of paper	Presenter
1	Cassava cultivation as panacea to poverty reduction and food security in Nigeria	M. Abdullahi (Pg 62)	Cassava improvement in Africa, challenges to emerging value chains	Mahungu N.M. (Pg 68)
2	Production and marketing of Taro in Papua New Guinea	Abdul Halim (Pg 63)	Incidence, Severity and Prevalence of the Cassava Mosaic Geminivirus in Sierra Leone	A.E. Samura (Pg 69)
3	Farmer practices in small scale potato (<i>Solanum tuberosum</i> L) production system in Kenya	J.M. Machangi (Pg 64)	Managing Millipedes Infestation on Cassava and Cocoyam in the Western Region of Ghana	K.O. Fening (Pg 70)
4	Science and Technology for Enhancing the Contribution of Tropical Root Crops to Development in ACP countries	A. Ariho (Pg 65)	Integrated field management of aphids (<i>Myzus persicae</i> Sulzer and <i>Aphis gossypii</i> Glover together) on potato using bio-pesticides	Sunil Kr. Ghosh (Pg 71)
5	Resource use efficiency and profitability analysis of sweet potato production in Kano State (A case study of Kura L.G.A.)	S.A. Oladeji (Pg 66)	Acceptance of root and tuber crops in research and development related to Africa.	Keith, Tomlins (Pg 72)
6	Propagation of Yams (<i>Dioscorea rotundata</i> Poir.) Using Sprouted Tuber-heads	Beatrice A. Aighewi (Pg 67)		

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Breakout Session A

SN	ISC 6	
	Title of paper	Presenter
1	An Assessment of Cassava Health in relation to foliar Diseases in Osun State Nigeria.	Sangoyomi T. E. (Pg 73)
2	Evaluation of Local and Elite Cassava Genotypes for Resistance to Cassava Brown Streak Disease (CBSD) in Uganda	Abaca, A (Pg 74)
3	Farmers' traditional knowledge about climate change and its influence on the distribution and importance of major pests and coping strategies in cassava fields of Northwestern Zambia	Chalwe A (Pg 75)
4	Quantitative detection of <i>African cassava mosaic virus</i> and <i>East African cassava mosaic virus</i> using TaqMan Real Time PCR	G. Otti (Pg 76)
5	Safe exchange of cassava and yam germplasm	P. Lava Kumar (Pg 77)
6	Distribution and severity of taro leaf blight in different agroecological zones of Nigeria	Onyeka T. J (Pg 78)

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Tuesday: September 25, 2012

Plenary Session B

Venue: Auditorium

CRP RTB special session

Time	Title of paper	Presenter
8.30	CGIAR Research Program on Roots, Tubers, and Bananas (RTB): rationale, strategy and impact	Graham Thiele (Pg 79)
8.45	A strategy for defining research priorities for roots, tubers and bananas	Joseph Rusike (Pg 80)
9.00	Conserving and Accessing Genetic Resources for Roots Tubers and Bananas (Theme 1)	Roux, Nicolas (Pg 81)
9.15	Accelerating the development and selection of varieties (Theme 2)	Becerra, Augusto (Pg 82)
9.30	Research for the development of sustainable management options of pests and diseases of roots, tubers and banana crops (Theme 3).	Hanna, Rachid (Pg 83)
9.45	Making available low-cost, high-quality planting material for farmers – searching for opportunities to improve seed systems (Theme 4)	Ortiz, Oscar (Pg 84)
10.00	Developing tools for more productive, ecologically robust cropping systems; an example cutting across crops (Theme 5)	Hauser, Stefan (Pg 85)
10.15	Improving post harvest qualities and expanding utilization (Theme 6)	Dufour, Dominique (Pg 86)
10.30	Communications for impact (Theme 7)	Inge van den Bergh (Pg 87)
10.45	Priority setting: best bets stakeholder survey	Guy Hareau (Pg 88)

Plenary Session C

Venue :Auditorium

YIIFSWA special session

SN	Title of paper	Presenter
1	Yam Improvement for Income and Food Security in West Africa (YIIFSWA)	Maroya N. (Pg 89)
2	Value Chain Analysis of the Yam Sectors in Ghana and Nigeria	D Phillips (Pg 90)
3	Baseline Survey Protocols: The Case of YIIFSWA Project in Ghana and Nigeria	D. Mignouna (Pg 91)
4	Virus and Virus-like Diseases of Yams in West Africa: Status and Prospects for Control	P. Lava- Kumar (Pg 92)
5	Facilitating clean seed yam entrepreneurship in the Niger River system.	McNamara N. (Pg 93)
6	Evaluation of the yield and consumer preferences of some yam cultivars selected for export	Ikeorgu J. G. (Pg 94)

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Breakout Session B

SN	Yam special session		Cassava Harvest Plus Session	
	ISC 1		ISC 2	
	Title of paper	Presenter	Title of paper	Presenter
1	Diversity study on yam genetic resources in the "EDITS-Yam" project".	Yamanaka (Pg 95)	Review of global nutrition studies: Implications for dissemination of Vitamin A cassava	Boye, E. and Maziya Dixon, B. (Pg 101)
2	Identification of EST-SSR and SNP markers for linkage mapping in <i>Dioscorea alata</i> L.	R. Bhattacharjee (Pg 96)	Status and micronutrient deficiency in children under 5 and women of child bearing age who consume cassava as a staple in Akwa Ibom State	Maziya-Dixon, B (Pg 102)
3	Private sector led strategy for development Yam industry and associated farming systems in Ghana	Manson, H (Pg 97)	Breeding for more nutritious cassava: The past, present and future	Kulakow, P.; Parkes, E.; Egesi, C.; Ceballos, H. (Pg 103)
4	Increasing Productivity and Utilization of Food Yams in Africa (IPUFYA)	Lopez-Montes (Pg 98)	Table properties of Vitamin A gari: A consumer acceptance perspective	Oparinde, A. and Birol, E. (Pg 104)
5	Organic soil amendments in nematode management in yam production	K. Osei (Pg 99)	Vitamin A cassava in Nigeria: The challenge of sustaining adoption	Ilona, P. (Pg 105)
6	Productivity Estimate of the yield of Yam (<i>D. rotundata</i>) Minutubers originated from Vine cuttings	Pelemo, O. S (Pg 100)	Progress in breeding for high beta-carotene cassava in Democratic Republic of Congo	Bidiaka, S.M. (Pg 106)

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Breakout Session B

SN	ISC 3		ISC 4	
	Title of paper	Presenter	Title of paper	Presenter
1	Prevalence of <i>Alternaria</i> blight of sweetpotato in Uganda	Alajo, A (Pg 107)	Are enzymes involved in degrading b-carotene during storage of dried sweet potato (<i>Ipomea batata</i> Lam)	Bechoff, A (Pg 113)
2	Determining the Pan-African sweetpotato virome: understanding virus diversity, distribution and evolution and their impacts on sweetpotato production in Africa	Dina Gutierrez (Pg 108)	Physicochemical characterization of selected white yam (<i>Dioscorea rotundata</i>) varieties	Alamu, E Oladeji (Pg 114)
3	Effect of whole cassava meal on the performance, carcass weight and nutrient digestibility of broilers	Aderemi F.A (Pg 109)	Quantitative characterization of nutritional components, amino acids and diosgenin in tubers of <i>D. cayenensis</i> cv. Alo from Edo State, Nigeria	Matsumoto R., (Pg 115)
4	Some selected minor root and tuber crops in Nigeria: their biochemical composition and potential contributions to the nutrition and economy of the rural households.	Olojede A.O (Pg 110)	Resource Use Efficiency and Profitability Analysis of Sweet Potato Production in kano State, Nigeria.	Oladeji S.A. (Pg 116)
5	Nutritional Evaluation of Vines (Leaves and Stems) of Selected Sweet Potato (<i>Ipomoea batatas</i>) Varieties and Potential Uses in Cameroon	Achidi Aduni U (Pg 111)		
6	Reaching out to the disadvantaged with orange fleshed sweetpotato: reach out Nkokonjeru Parish HIV/AIDS initiative	Kizito Anthony (Pg 112)		

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Wednesday: September 26, 2012

Breakout Session C

ISC 1			ISC 2	
SN	Title of paper	Presenter	Title of paper	Presenter
1	Yam bean (<i>Pachyrhizus erosus</i>) processing in Benin	S.W. Padonou (Pg 117)	Food security in Bangladesh: Performance of Cassava based on nutrient content, cyanide reduction and yield	M.S.A. Fakir (Pg 123)
2	Effect of drying method on the properties of cassava chips	M.O. Oyelakin (Pg 118)	Physiological and Economic Implications of Leaf Harvesting on Vegetative Growth and Cormel Yield of Cocoyam (<i>Xanthosoma sagittifolium</i>)	H. Asumadu (Pg 124)
3	Physico-chemical characteristics of cocoyam (<i>Xanthosoma sagittifolium</i>) flour and his utilization in bakery	Vlavinou J.S.A. (Pg 119)	Diversity of arbuscular mycorrhizal fungi in soils under orange fleshed sweetpotato in Western Kenya	C.A. Kundu (Pg 125)
4	The Effects of Storage Conditions on the Quality of Sweet Potatoes	S. Sowe (Pg 120)	Evaluation of twelve introduced <i>Dioscorea alata</i> genotypes in four environments in Ghana	E. Otoo (Pg 126)
5	Quality attributes of sweet potato [<i>Ipomoea batatas</i> (L.) Lam] flour as affected by variety and processing methods	G.O. Fetuga (Pg 121)	Constraints and Opportunities of <i>Pachyrhizus</i> spp. introduction in the current farming systems in Central and Southern Benin	N.I. Djenontin (Pg 127)
6	Determination of Rapid maturity index in White yam	B.A. Akinwande (Pg 122)	Agroadvisory system on cassava using cassava simulation model SIMCAS	V.S. Santhosh-Mithra (Pg 128)

ISC 3			ISC 4	
SN	Title of paper	Presenter	Title of paper	Presenter
1	Preliminary results of investigation and screening of cassava germplasm for drought tolerance in Malawi	Ntawuruhunga P (Pg 129)	Farmers' adoption challenges, preferences for yellow-fleshed cassava product and selection criteria for research intervention through participatory rural appraisal (PRA).	D.N. Njoku (Pg 135)
2	Assessment of multiple disease resistance in select current cassava breeding varieties in Nigeria	R.U. Okechukwu (Pg 130)	Cocoyam growth, trends, projections and policy options for food security in Nigeria for the 21st century	B.C. Okoye (Pg 136)
3	Farmer-oriented technologies to respond to climate change: A case study in Cassava	C. Hershey (Pg 131)	Impact of climate change on root and tuber crops production and diversity in West Africa countries: An econometrics Analysis	Aboua A. Christian (Pg 137)
4	Development of interspecific hybrids between three American yam bean species (<i>Pachyrhizus</i> spp.)	B. Heider (Pg 132)	Building sustainable market linkages through Innovations Platforms for Technology Adoption: Case studies from Uganda, Kenya and Tanzania	S. Mayanja (Pg 138)
5	Cracking the challenges of producing and regenerating friable embryogenic callus from farmer preferred cassava cultivars	Helen B. Apio (Pg 133)	Gender Implications for sustainable seed yam production using yam miniset technology in South Eastern Nigeria	Ironkwe A.G. (Pg 139)
6	Opportunities to Shorten the Breeding Cycle in Cassava and Increase Gain from Selection using Genomic Selection	Kulakow P.A. (Pg 134)	Spatial integration and price transmission in selected rural and urban markets for cassava fresh roots in Nigeria	I.A. Ojiako (Pg 140)

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Breakout Session C

ISC 5			ISC 6	
SN	Title of paper	Presenter	Title of paper	Presenter
1	Past research achievement on the improvement of Enset (<i>Ensete ventricosum</i> (Welw.) Cheesman) clones	Z. Yemataw (Pg 141)	Yam Seed Tuber System in Nigeria	Akoroda M.O. (Pg 147)
2	Strengthen linkages between the conservation and use of yam in Ghana	J.Y. Asibuo (Pg 142)	Clonal Seed Systems- Challenges, prospects and road maps for sustainable small and large scale cassava farming in Nigeria.	Odedina SA (Pg 148)
3	Effects of intercropping Cassava with Plantain in the forest region of Ghana on the populations and damage caused by the pest of the two crops	H. Braimah (Pg 143)	Building a sustainable sweetpotato seed system in Malawi: Experiences from the "Rooting out Hunger in Malawi" project.	Putri E Abidin (Pg 149)
4	Whose standards matter? Piloting the implementation of Quality Declared Planting Material inspection guidelines for sweetpotato in Lake Zone, Tanzania.	M. McEwan (Pg 144)	Screening African Yam bean <i>Stephynostilis stenocarpa</i> for seed and tuber yield ability using metric trait indices	Aremu, C.O. (Pg 150)
5	Incidence and distribution of yam viruses in Côte d'Ivoire	M.N.Y. Toualy (Pg 145)	Qualitative model of potato seed systems: a proposal to converge seed-related biophysical and socioeconomic factors	Oscar Ortiz (Pg 151)
6	Developing the Caribbean Region's Root and Tuber Industry through Value Added Product Development	Pathleen Titus (Pg 146)	Timely availability of quality sweetpotato planting material in Uganda: a chronic challenge with a solution	Ssemakula Gorrettie (Pg 152)

Breakout Session D

ISC 1			ISC 2	
SN	Title of paper	Presenter	Title of paper	Presenter
1	Production and evaluation of the quality of Yam Bean (<i>Pachyrhizus erosus</i>) fortified gari	S.W. Padonou (Pg 154)	Testing the adaptability & acceptability of elite sweetpotato genotypes in Ghana in 2011	J.N. Asafu-Agyei (Pg 160)
2	Effect of agglomeration-roasting process and the addition of cowpea and OFSP (Orange fleshed sweet potatoes) on the viscosity of porridge made of sun dried cassava flour	I.S. Torrie de Carvalho (Pg 155)	Agronomic responses of <i>Dioscorea rotundata</i> under low moisture stress	N. Odoh (Pg 161)
3	What is the consumers' perception of bakery products made with vitamin A rich sweetpotato and wheat?	Kirimi Sindi (Pg 156)	Evaluation of biological control agents (BCAs) for the control of tuber rot of yam (<i>Dioscorea</i> spp.)	V. O. Dania (Pg 162)
4	Physiochemical characteristics of yam flour supplemented with whole wheat and soy flour	O.O. Oroniran (Pg 157)	N and K uptake efficiency and leaf protein content of organically grown Sweet potato in Abeokuta Southwestern Nigeria	O.I. Lawal (Pg 163)
5	Simple and rapid Colorimetric Method for total quantification of cyanogenic glycoside (CNp) in fresh and processed cassava products	L. Tivana (Pg 158)	Mechanization, fertilization and non-staking options for environmentally sound yam production	S. Ennin (Pg 164)
6	The effect of catalytic flameless infrared (CFIR) drying on the functional properties of sweetpotato flour	E.K. Dery (Pg 159)	Cassava varietal response to leaf harvest on two contrasting soil in the Democratic Republic of the Congo	Hauser S. (Pg 165)

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Breakout Session D

ISC 3			ISC 4		
SN	Title of paper	Presenter	Title of paper	Presenter	
1	Development of an informative set of simple sequence repeat (SSR) markers for sweetpotato fingerprinting and diversity assessment in the West African sub-region	Thompson R. (Pg 166)	Implementing Biosafety Policies For Sustainable Roots And Tuber Crop productivity In Nigeria	U.J. Eshiet (Pg 172)	
2	Ploidy level, morphological traits and secondary metabolite profile of <i>Dioscorea dumetorum</i> (Kunth) Pax., to determine breeding strategy	T.F. Adaramola (Pg 167)	Evaluation of a trader-focused marketing strategy for the sustained uptake of orange flesh sweet potato in Zambézia province, Mozambique	Claire Coote (Pg 173)	
3	Genetic inheritance of farmer preferred traits in cassava varieties adapted to mid-altitude tropical climatic conditions	W.V. Were (Pg 168)	Inventory of Indigenous Knowledge in Yam Production and Storage in the Upper West Region of Ghana	E. Bchamba (Pg 174)	
4	Enhancing genetic potential of orange fleshed sweet potato varieties in Papua New Guinea	Boney Wera (Pg 169)	Cassava Value Chain Development in Benin Republic: Impact on Product and Rural Income Diversification for Enhanced Livelihood	K. Davo (Pg 175)	
5	Evaluation of performance of introduced yam Bean (<i>Pachyrhizus</i> spp.) in Rwanda	J. Ndirigwe (Pg 170)	Building sustainable market linkages through Innovations Platforms for Technology Adoption: Case studies from Uganda, Kenya and Tanzania	S. Mayanja (Pg 176)	
6	Correlation and path coefficient studies of cocoyam (<i>Xanthosoma sagittifolium</i> L.)	K.K. Paul (Pg 171)	What will influence uptake of OFSP by traders?: Experiences from Uganda.	Okwadi J (Pg 177)	

Breakout Session D

1st Consultative Meeting on the Improvement of Root Crop Seed Systems in Tropical Agriculture

ISC 5			ISC 6		
SN	Title of paper	Presenter	Title of paper	Presenter	
1	Eco friendly approaches for the management of major pests of cassava in India	C.A. Jayaprakas (Pg 178)			
2	Viruses infecting sweet potato in Jamaica	L. Johnson (Pg 179)			
3	Pest and diseases of 16 local and exotic sweet-potato varieties in Benin and agronomic characteristics	Komlan Koudahe (Pg 180)			
4	Monitoring Survey and Status of the Cassava Anthracnose Disease (CAD) in Luapula and Eastern Provinces of Zambia	Mathias Tembo (Pg 181)			
5	Sweetpotato weevil resistance in sub-saharan Africa: A viable mechanism for reducing <i>Cylas</i> damage	A.M. Otema (Pg 182)			
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Breakout Session E

	ISC 1		ISC 2	
SN	Title of paper	Presenter	Title of paper	Presenter
1	Extrusion Characteristics of Yam (<i>Dioscorea alata</i>) Flour Extrudates	J.T. Sheriff (Pg 183)	Yield and Micronutrient uptake of white yam (<i>Dioscorea rotundata</i> L. Poir) as affected by organomineral fertilizer ammendment on an alfisol in Ibadan South western Nigeria	Lawal, O. I. (Pg 189)
2	Potential preferences of Benin consumers for a gari made from Ahipa roots	M. Ahouandjinou (Pg 184)	Determination of economically profitable doses of nitrogen, phosphorus and potassium for sustainable cassava production in southern Benin	Allagbe M. (Pg 190)
3	Up-scaling Orange-fleshed Sweetpotato (<i>Ipomea batatas</i> (L) Lam) Technologies in Western Kenya	P.J. Ndolo (Pg 185)	Gestion durable de la fertilité des sols par la rotation contrôlée des cultures	N. Frangoie (Pg 191)
4	Nutritional and functional profiles of two tuber crops (<i>D. bulbifera</i> and <i>C. esculentus</i>) consumed in northern Cameroon	M. Barbi (Pg 186)	Soil Nutrient Recovery After Seven-Year Fallow in Ultisol Grown to Cassava-Pigeon Pea Based Systems for Seven Years in Southeastern Nigeria	Asadu, C.L.A (Pg 192)
5	Experiences in establishing new cassava value chains for improved smallholder livelihoods: Lessons from high quality cassava flour commercialization under C: AVA Project in Malawi	V. S. Sandifolo (Pg 187)	Facilitating cassava market linkages for smallholder groups	James B.D. (Pg 193)
6	Multi-locational assessment of some physicochemical attributes and amylase activity of sweetpotato varieties and elite materials in Ghana	E. Owusu-Mensah (Pg 188)	Priorities for a global cassava research program to improve food security and incomes in developing countries: A survey of experts	J. Rusike (Pg 194)

	ISC 3		ISC 4	
SN	Title of paper	Presenter	Title of paper	Presenter
1	Studies on Nanobiotechnology Control of Postharvest Rot in Yam (<i>Dioscorea rotundata</i>)	Eze S. C (Pg 195)	Gender issues in cassava value chains	L. Forsythe (Pg 201)
2	Genetic improvement of cassava for enhanced beta-carotene in Nigeria	D.N. Njoku (Pg 196)	Market prospects for cassava small scale farmers in Zambia	N.M. Mutwale (Pg 202)
3	Diallel analysis of sweet potato [<i>Ipomoea batatas</i> (L.) Lam] genotypes for beta carotene and dry matter content in South Africa	P.O. Adebola (Pg 197)	Livelihood Study of the CFC Beneficiaries and Communities: Outcomes of the Cassava Value Chain Project in West Africa	O.O. Onadipe-Phorbee (Pg 203)
4	DNA fingerprinting of cassava and yam germplasm collection at IITA using SSR markers to identify duplicates	R. Bhattacharjee (Pg 198)	Productivity and profitability of cassava based intercropping systems in the Northern Guinea Savanna of Ghana	A.K. Quainoo (Pg 204)
5	Stability Performance of Cassava Genotypes Combining African and Latin American Germplasm in Ghana	E. Parkes (Pg 199)	Social networks and cassava value chain development in Africa	Helena Posthumus (Pg 205)
6	Breeding un-sweetpotato for West Africa: Progress on population development and improvement in Ghana and Peru	E.E. Carey (Pg 200)		

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Breakout Session E

ISC 5			ISC 6	
SN	Title of paper	Presenter	Title of paper	Presenter
1	Effect of bilge water on germination of <i>Manihot esculata</i> (cassava)	Abah S. P. (Pg 206)	Screening of Cassava Germplasm for Poundability in Luapula Province – A Preliminary Study	Martin Chiona (Pg 212)
2	Deployment of CGM Resistance from Latin America to Africa for Genetic Improvement of Cassava	Okogbenin E (Pg 207)	Cassava brown streak disease in Mozambique: diallel analysis, yield and yield related characteristics	A.M. ZACARIAS (Pg 213)
3	Genes of Industrial Importance on Cassava Waste Bacteria Plasmids	Aniekpeno I. E. (Pg 208)	Pro-vitamin A cassava varieties: development, release and deployment in Nigeria	Egesi, C.N (Pg 214)
4	Development of a multiplex RT-PCR for the detection of major yam viruses in West Africa	C. Nkere (Pg 209)	Next Generation Cassava Breeding: Accelerating the Rate of Genetic Improvement in Cassava Breeding	Hale Ann Tufan (Pg 215)
5	Developing an Effective Protocol for Embryo Rescue in <i>Dioscorea</i> spp	Amazue, U. E. (Pg 210)	Cassava (<i>Manihotesculenta</i> Crantz) improvement in South Africa	M.E. Rauwane (Pg 216)
6	Zinc biofortification of cassava storage roots	Kahya S. (Pg 211)	Pre-tuber application of fluridone: vegetative growth and seed tuber dormancy in yam (<i>D. alata</i>)	Hamadina, Elsie I. (Pg 217)

Breakout Session F

ISC 1		ISC 2		
SN	Title of paper	Presenter	Title of paper	Presenter
1	Development of an Industrial Rasper (Blade Type) for Cassava Starch Extraction	M.S. Sajeev (Pg 218)	A Commercial High Quality Cassava Flour Hot-Setting Corrugated Board Adhesive Formulation	Friday F. F. Masumbu (Pg 224)
2	Formulation and biochemical characterization of sweet potato (<i>Ipomoea batatas</i>) based infant flours fortified with soy and sorghum	F. Sanoussi (Pg 219)	Cassava Value Chain Development by Supporting Processing and Value Addition by Small and Medium Enterprises in Sierra Leone: Experiences, Prospects and Impact	S.N. Fomba (Pg 225)
3	Development of an Uncooked Simultaneous Liquefaction, Saccharification and Fermentation for Bioethanol Production from Cassava Chips	Chu K. Son (Pg 220)	Performance and cost evaluation of broilers fed composite feeds containing processed cassava leaf and cassava peels supplemented with xylanase	Jamiu-Azeez, S. O (Pg 226)
4	Influence of extrusion conditions on retention of β -carotene and physical characteristics of ready -to-eat orange fleshed sweet potato flour extruded snack product	J. T. Sheriff (Pg 221)	The Price Support Policy and the Brazilian Cassava Value Chain	Patino M.T.O (Pg 227)
5	Changes in Souring Production and Physico-functional Properties during Co-Fermentation of Cassava (<i>Manihot esculenta</i> Crantz) and Cowpea (<i>Vigna unguiculata</i>) Dough into Gari, An African Fermented Food	V.N.A. Hammond (Pg 222)	Cassava value chain development through partnership and stakeholders' platform in Cameroon	Emmanuel Njukwe (Pg 228)
6	Targeting Cassava Processing Research for Development Investments to Upgrade Cassava Value Chains in Tanzania	Bachwenkizi B (Pg 223)	Effect of Fortification on the Chemical and Sensory Properties of Pre-gellatinised, Cold Extruded Cassava Noodles	Ariwaodo C.A. (Pg 229)

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Breakout Session F

	ISC 3		ISC 4	
SN	Title of paper	Presenter	Title of paper	Presenter
1	Combining ability and mode of gene action in cassava for resistance to cassava mosaic disease and cassava brown streak disease	Michael M. Chipeta (Pg 230)	Cracker coated peanut snack made from composite cassava-wheat flour dough	Abiola Temitope (Pg 236)
2	Increasing Farmers and Breeders Access to Yam (<i>Dioscorea</i> Spp) Diversity: The Case of Forest-Savannah Transition Agroecology	E. Otoo (Pg 231)	Effects of blanching pre-treatment and drying methods on the functional and pasting properties of sweet potato (<i>Ipomoea batatas</i>) flour	Ojubanire. B. A. (Pg 237)
3	Genotype x environment interaction and yield stability estimates of some sweet potato [<i>ipomoea batatas</i> (L.) Lam] breeding lines in South Africa	Adebola PO (Pg 232)	The need for nutrient-dense cassava production in Nigeria through soil mineralization	Oluwalana, S.A. (Pg 238)
4	Breeding potential of sweetpotato cultivars in Uganda for tuber yield, quality and sweetpotato virus disease resistance	E. Gasura (Pg 233)	'Dry and Starchy' Orange-fleshed Sweetpotato Farmer varieties: Implications for fighting Vitamin A Deficiency in East and Central Africa	Tumwegamire, S (Pg 239)
5	Evaluation of Sweetpotato local germplasm in Solwezi district of Zambia	Gerald I (Pg 234)	Promoting cassava commercialisation with micro- and small-scale enterprises in rural Malawi	E. Chidakwani (Pg 240)
6	Yield and Quality of Nigerian Ginger: Strategies for Improvement	C.O. Amadi (Pg 235)	Growth performance of cassava in cassava /maize/sunflower intercrop	Olaiya, A.O (Pg 241)
			Root Productivity of Yellow Root Cassava Clones (<i>Manihot esculenta</i> Crantz)	A.A. Bello (Pg 242)
			Combining ability analysis of cassava for resistance to cassava mosaic disease	P.C Chikoti (Pg 243)

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Poster Presentations

Position	Title	Lead author	Crop	Group
A1	Quality traits of starches and total carotenoids retention from bio-fortified yellow Cassava (<i>Manihot esculenta</i> Crantz) roots	Etundayo H.A. (Pg 376)	Cassava	A
A2	Genotypic variation in fresh root colour, harvest period and dry matter content of improved cassava genotypes	D.N. Njoku (Pg 265)	Cassava	A
A3	Potassium Efficient Cassava (<i>Manihot esculenta</i> Crantz) Genotypes for Domestic and Industrial uses	K. Susan John (Pg 269)	Cassava	A
A4	Two labour saving devices for small scale farmers	P. Osei-Bonsu (Pg 272)	Cassava	A
A5	Utilizable yield of selected early maturing cassava (<i>Manihot esculenta</i> Crantz) genotypes	Bunmi Olasanmi (Pg 274)	Cassava	A
A6	Morphological and Physiological Characterization of Improved Cassava Genotypes under Different Moisture Regimes	N.A. Adetoro (Pg 282)	Cassava	A
A7	Agronomic Performance of Pro Vitamin A Cassava Varieties in Three Locations in Nigeria	N.A. Adetoro (Pg 283)	Cassava	A
A8	Determination of the best time of introducing cassava into yam miniset/maize intercrop for optimum productivity of the cropping system	A.O. Ano (Pg 292)	Cassava	A
A9	Assessment of the utilization of improved health and sanitation practices by rural-based cassava processors in Ogun State, Nigeria.	Banmeke, T.O.A. (Pg 377)	Cassava	A
A10	Stability in nine cassava (<i>Manihot esculenta</i> Crantz) clones of fresh root yield across three environments	P. Bright (Pg 317)	Cassava	A
A11	Genetic transformation of cassava (Nwibibi) – a farmer preferred cultivar in Nigeria.	A.O. Ubalua (Pg 318)	Cassava	A
A12	The Biosafety Issues In Bio-Cassava Plus Transgenic Research In Nigeria	Nwachukwu, E.C (Pg 334)	Cassava	A
A13	Performance of Selected newly-released cassava varieties in unfertilized tropical soils	Odedina SA (Pg 335)	Cassava	A
A14	Effect of topping and reducing the number of stems per plant on yield of cassava tuberous roots.	N.M Mahungu (Pg 352)	Cassava	A
A15	Evaluation of Cassava-Based Systems for Adaptation to Climatic Variations in Eastern Nigeria	Asadu, C.L.A (Pg 355)	Cassava	A
A16	Cassava Productivity among Farmers in the Rural Areas of Ogun and Ekiti States, Nigeria	Ayinde, A. F. O. (Pg 359)	Cassava	A
A17	Goken rapid multiplication technology: A novel approach for cocoyam multiplication and soil recapitalization	G.O. Chukwu (Pg 296)	Cocoyam	A
A18	Cocoyam Variety Trial on a Haphic Acrisol in Southeastern Nigeria – Higher Case	O. Onwubiko (Pg 314)	Cocoyam	A
A19	Response of different rates of Primextra and two sowing densities of Pumpkin (<i>Curcubita pepo</i>) on weed control, growth and yield of Cocoyam (<i>Xanthosoma Sagitifolium</i> in Uyo	Udosen, U. U (Pg 339)	Cocoyam	A
A20	Genetic variability studies and character association in ginger grown at Umudike, South East, Nigeria	A/K/ Danbaba (Pg 297)	Ginger	A
A21	Evaluation of the performance of Ginger (<i>Zingiber officinale</i> Rosc.) under oil palm plantation environment in South Eastern Nigeria	E.N. Nwaogu (Pg 307)	Ginger	A
A22	Genetic transformation of potato with a triple R gene construct to confer resistance to late blight	M. Mwathi (Pg 259)	Potato	A

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A23	Studies on regeneration and agrobacterium-mediated genetic transformation of Potato	M.M.H. Molla (Pg 304)	Potato	A
A24	The Use of Bio-gas production residues as bio-fertilizer for Sweet potato (<i>Ipomea batatas</i>) production	S.C. Eze (Pg 300)	Sweet potato	A
A25	Periodic harvesting, fertilizer rates and growth and yields of some sweet potato cultivars on an ultisol*	N.U. Ndaeyo (Pg 305)	Sweet potato	A
A26	Effect of Sweetpotato Propagule Size on Productivity of Sweetpotato/Soybean (<i>Glycine max</i>) Intercop	J.C. Njoku (Pg 342)	Sweet potato	A
A27	Progress on implementation of an accelerated sweetpotato breeding scheme in Ghana	E. Obeng-Bio (Pg 308)	Sweet potato	A
A28	Evaluation of Sweetpotato (<i>Ipomea batatas</i>) varieties under Maize (<i>Zea mays</i>) canopy	Okobia P.I (Pg 337)	Sweet potato	A
A30	In vitro culture of medicinal <i>Dioscorea</i> sp.: strategies for rapid microtuberization	J. Odimegwu (Pg 263)	Yam	A
A31	Participatory yam breeding scheme for West Africa	A. Lopez-Montes (Pg 268)	Yam	A
A32	Propagation of Yams (<i>Dioscorea rotundata</i>) Using Sprouted Tuber-heads	B.A. Aighewi (Pg 270)	Yam	A
A33	Yam staking and the need for control of deforestation: A case study in four local government areas around Ogbomosho in Oyo State	T.O. Ajiboye (Pg 286)	Yam	A
A35	Evaluation of some Yam Cultivars from Yam belt of Nigeria to miniset Technology and Organic Fertilizer	Udom G. (Pg 329)	Yam	A
A36	Nitrogen uptake efficiency and Tuber yield of white yam (<i>Dioscorea rotundata</i> Poir.) as influenced by compost rates in Abeokuta Southwestern Nigeria	Lawal, O. I. (Pg 347)	Yam	A
A38	Germplasm Evaluation of Yam (<i>Dioscorea rotundata</i>) genotypes in Ultisol of Nsukka Environment	Ugwuoke K. I (Pg 356)	Yam	A
A39	Training to validation population relatedness affects genomic prediction accuracy: a cassava case study	Delphine Ly (Pg 378)	Cassava	A
A40	Overview of root and tuber crops diversity using molecular genetic tools at CSIR- Crops Research Institute	Marian D. Quain (Pg 379)	Root & Tuber crops	A
B1	Population dynamics, damage and control of major insect pests of cocoyam (<i>Colocasia esculenta</i>) in Umudike, Abia State	Nwaogu A.S (Pg 350)	Cocoyam	B
B2	Evaluation of the antimicrobial properties of <i>Ficus</i> species extract on fungi causing rot of Irish Potato	Aduramigba - Modupe A. (Pg 276)	Irish Potato	B
B3	Root and tuber crops germplasm research conserved at Plant Resources Center of Vietnam: A key contributes to food and nutrient security, energy security, and maintaining agro-biodiversity	N. Van Kien (Pg 247)	Root & Tuber crops	B
B4	Effect of weevils (<i>Cylas formicarius</i>) on the yield of sweetpotato varieties	M.S. Afolabi (Pg 250)	Sweet potato	B
B5	Evaluation of biological control agents (BCAs) for the control of tuber rot of yam (<i>Dioscorea</i> spp.)	V.O. Dania (Pg 321)	Yam	B
B6	Incidence and epidemiology of three yam virus species in various plantings of yams (<i>Dioscorea</i> spp.) in Nigeria	S. Asala (Pg 322)	Yam	B
B7	Incidence and diversity of postharvest tuber rot pathogens in <i>Dioscorea</i> yams in Nigeria	V.O. Dania (Pg 323)	Yam	B

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B8	Incidence and severity of Yam Internal Brown Spot Disease in Côte d'Ivoire	M.N.Y. Toualy (Pg 324)	Yam	B
B9	Effect of planting dates and harvesting ages on the root and stem yields of three yellow cassava genotypes in three agro-ecologies in Nigeria	M.O. Yomeni (Pg 320)	Cassava	B
B10	In-vitro plant propagation and post- flask management: as an effective tool for germplasm introduction and exchange for cassava improvement	Favour Ewa (Pg 372)	Cassava	B
B11	CASSAVA BROWN STREAK DISEASE: BREEDING FOR RESISTANCE IN MOZAMBIQUE	A.M. ZACARIAS (Pg 369)	Cassava	B
B12	Adaptability of irrigated orange-fleshed sweet potato (<i>Ipomoea batatas</i> [L.] Lam) genotypes in different agro-ecological zones of Malawi	D.M. Kathabwalika (Pg 363)	Sweet potato	B
B13	Effect of storage length on the microbial load of stored sweet potato flour.	Amajor J.U	Sweet potato	B
B14	CHARACTERIZATION OF SWEETPOTATO <i>ALTERNARIA</i> BLIGHT ISOLATES IN UGANDA	Alajo, A (Pg 371)	Sweet potato	B
B15	EVIDENCE OF GENE-FOR-GENE INTERACTION IN YAM ANTHRACNOSE DISEASE AND IMPLICATION FOR RESISTANCE BREEDING	Onyeka T. J (Pg 365)	Yam	B
B16	Seed transmission of viruses in <i>Dioscorea</i> yams	P. Lava Kumar (Pg 368)	Yam	B

Position	Title	Lead author	Crop	Group
C1	Proximate And Functional Properties Of Wheat/Beetroot Flour Blends	A.S. Adeboye (Pg 257)	Beetroot	C
C2	Effect of drying method and storage time on the functional properties of cassava chips	M.O. Oyelakin (Pg 245)	Cassava	C
C3	Effect of drying method and storage time on the pasting properties of cassava chips	M.O. Oyelakin (Pg 246)	Cassava	C
C4	Effect Of Pre-Process Holding Of Cassava Tubers On Quality Characteristics Of Cassava-Wheat Composite Bread	Adeboye A.S (Pg 248)	Cassava	C
C5	Development of Combined Cassava Wet Mash Process Handling Machine	Kolawole P. (Pg 249)	Cassava	C
C6	Effect of Fortification on the Chemical and Sensory Properties of Pre-gellatinised, Cold Extruded Cassava Noodles	C.A. Ariwaodo (Pg 252)	Cassava	C
C7	Production and Characterization of raw- starch digesting glucoamylase from <i>Aspergillus niger</i>	S.O. Kareem (Pg 256)	Cassava	C
C8	Effect of mechanised shredding of cassava tuber on the hydrogen cyanide (HCN) and moisture content of the shreds - a response surface analysis	M.O. Iwe (Pg 258)	Cassava	C
C9	Batter rheology, baking and sensory qualities of cake from blends of cassava and wheat flours	H. Bakare (Pg 261)	Cassava	C
C10	Performance and Nutrient Digestibility of Growing Pigs Fed Cassava Leaf Meal as Protein Source	O.T. Irekhore (Pg 273)	Cassava	C
C11	Development of a power-driven gari fryer	S.A. Adegbite (Pg 278)	Cassava	C

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C12	Performance Evaluation of Cockerels Fed Maize-cassava based Growers Ration	A.B. Aina (Pg 281)	Cassava	C
C13	Roots and tubers for the baking industry in Nigeria : An overview	I.A. Adeyemi (Pg 284)	Cassava	C
C14	Feeding values of fresh and dry cassava peels containing dietary salts on West African Dwarf goat performance	A.B.J. Aina (Pg 285)	Cassava	C
C15	Performance of starter and finisher broilers fed unpeeled cassava root meal based diets supplemented with free amino acids	O.S. Akinola (Pg 288)	Cassava	C
C16	Capacity Development of Local Machine Fabricators from the CFC-WA Project Countries	B. Alenkhe (Pg 289)	Cassava	C
C17	Value Addition to a Nigerian Traditional Cassava -Based Product (Fufu): Contribution of CFC-WA/IITA	W. Awoyale (Pg 293)	Cassava	C
C18	Physical properties, storability and microbiological assay of pelletized and un-pelletized cassava based diets	Oduguwa B.O. (Pg 309)	Cassava	C
C19	Investigation of the functional properties of cassava starch blended with edible seed flour	A. Uzomah (Pg 319)	Cassava	C
C20	Mathematical Modelling of Some Thermophysical and Engineering Properties of Cassava Starch	Adegoke, Adekola (Pg 326)	Cassava	C
C21	Cassava Flour a suitable resisting and printing paste for textile patterning	Braide (Pg 327)	Cassava	C
C22	Getting Round The Problem Of Cassava Utilization By Livestock: A Case Study Of Composite Cassava Meal	Ukachukwu S. N. (Pg 340)	Cassava	C
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