



2024 CONFERENCE



agriculture, land reform
& rural development

Department:
Agriculture, Land Reform and Rural Development
REPUBLIC OF SOUTH AFRICA

Science transforming food systems for a better future



Monday - 12 February 2024

Session 1: Chair-Dr S Ntombela (DALRRD)

Time slots	Programme
07:00 - 08:45	Arrival & Registration & Ribbon Cutting
09:00	Opening Plenary
	National Anthem
	Welcoming Remarks: ARC Council Chairperson - Ms J Isaacs
	Opening Address: Minister of Agriculture, Land Reform and Rural Development - Mrs TA Didiza, MP
	Overview of ARC-DALRRD Collaboration: DALRRD DDG-APBNRM - Mr D Serage
	ARC Strategic Focus and Institutional Review: ARC CEO & President - Dr L Magingxa
	Remarks by CEOs of DALRRD entities: NAMC CEO— Dr S Ngqangweni ; OBP CEO - Dr B Ntshabele ; PPECB - Mr P Khumalo
	National Science and Innovation Agenda for Agriculture: DSI DDG -TI - Dr M Muofhe
	Closing Remarks: DG - DALRRD
11:10 - 11:30	Media Briefing (By Invitation)
11:10 - 11:30	Tea Break (20 minutes)

Session 2: Chair Mr D Serage (DALRRD)

11:30 - 13:00	Provincial Presentations of R&D Priorities and Key Challenges - HoDs Northern Cape - Ms M Marais; Limpopo - Mr M Nowata; Free State - Dr T Masiteng; North West - Mr T Mokhatla; Gauteng - Ms M Gasela; KZN - Mr Z Dlamini; Eastern Cape - Ms S Ndudane; Western Cape - Dr M Sebopetsa; Mpumalanga - Mr C Chunda
13:00 - 13:45	Lunch (45 minutes)

Session 2 (continued): Mr Serage (DALRRD)

13:45 - 15:00	Panel Discussion 1 - Sector Priorities and Challenges Panelists - Commodity Representatives: GrainSA - Dr M Human ; FruitSA - Mrs F Ratshitanga ; PSA - Mr W Jacobs ; RPO - Mr G Schutte ; NERPO - Ms F Nherera-Chokuda ; SAPA - Mr I Breitenbach ; Agbiz - Mr T Boshoff
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Session 3: Dr A Magadlela (ARC)

15:00 - 15:30	Address - 4IR Trends and Opportunities in Agriculture Dr T Sethibe (ARC)
15:30 - 16:00	Address - The Impact of the National Public Good Assets Dr A v Vuuren (ARC) & Mrs. DC Raimondo (SANBI)
16:00 - 16:30	Address - KyD - 17 Years of Livestock Development Mr J Mamabolo (DALRRD) & Dr D Motiang (ARC)
16:30 - 16:50	Afternoon tea (20 minutes)
17:00 - 18:30	Celebration - 75 years of Potato & Sweet Potato Research - Dr M Truter (ARC) Networking

Tuesday - 13 February 2024

Session 4: Prof B Ndimba (ARC)

Time slots	Programme				
<i>Plenary Session - Main Venue</i>					
08:30 - 08:40	Welcome Remarks & Reflection - Prof B Ndimba (ARC)				
08:40 - 09:30	Responding to Sector Challenges Through a Food Systems Transformation Lens: Opportunities & Implications - An Expert View - Prof F Swanepoel (UP) & Dr A Stroebel (UMP)				
09:30 - 10:40	Panel Session on Farmer Development & MEL Mr P Hlatshwayo (DPME), Mr C Mojapelo (LDARD), Dr M Roefs (WUR), Dr A Mwangwela (LUANAR), Mr G Desibelew (FAO), Dr N Nengovhela (DALRRD) Facilitator - Dr J Jaftha (DALRRD)				
10:40 - 11:30	Panel Session on Seed Security & Seed Systems Development Mr F Hale (FANRPAN), Dr N Netnou-Nkoana (DALRRD), Mr E Goldshagg (SANSOR), Mr J Mahlabe (DALRRD) Facilitator - Dr M Bairu (ARC)				
11:30 - 11:55	Poster Session & Tea (25 minutes)				
<i>Research paper sessions</i>					
11:55 - 12:00	Climate Smart Agriculture	Unlocking Value Chains	One Health		
	Theme 1	Theme 2	Theme 3		
	Session 5 - Room 1 Ms L Bosoga (DALRRD)	Session 6 - Room 2 Mr J Mahlabe (DALRRD)	Session 7 - Room 3 Dr G Paterson (ARC)	Ses 8	
12:00 - 12:15	Thematic Address: Climate Smart Agriculture - setting the scene. Ms K Chueu	Thematic Address: Unlocking Value in Agricultural Value Chains. Dr J Tjelele	Thematic Address: One Health and Biosecurity Innovations - Setting the Scene. Dr A Lubisi	Farmer Engagement - Dr Matsaunyne	
12:15 - 12:30	Seed Production Technology for Africa (SPTA). Shandu et al	Indigenous Knowledge and Integrated Research on Honeybush. Bester et al	Die-back on Macadamia trees in South Africa. Jami & Morey		
12:30 - 12:45	A preliminary study on the yeast diversity associated with Rooibos. Hoff et al	Unlocking the potential in the medicinal plant value chain. Mofokeng et al	The uncertain future of beekeeping in South Africa. Lundall-Magnuson		
12:45 - 13:00	Inhibiting effects of cold plasma treatment... in plum. Mathe et al (withdrawn)	Ethnobotanical knowledge of plant species used for the management of pests and diseases. Shai et al	Variation in <i>Puccinia graminis f. sp. tritici</i> and <i>P. triticina</i> on wheat in South Africa. Terefe et al		
13:00 - 13:15	Promiscuous nodulation of bambara groundnut. Hassen et al	An evaluation of Kenaf as a multipurpose nutrient-rich feed alternative. Arendse et al	Genome sequence analysis of the Neethling lumpy skin disease virus prototype.		
13:15 - 13:30	Q&A	Q&A	Q&A		
13:30 - 14:15 Lunch (45 minutes)					
	Climate Smart Agriculture	Unlocking Value Chains	One Health		Ses 12
	Theme 1 (continued)	Theme 2 (continued)	Theme 3 (continued)		
	Session 9 - Dr D Swanevelder (ARC)	Session 10- Dr Toi Tsilo (ARC)	Session 11 - Mr JH Venter (DALRRD)		
14:15 - 14:30	Cannabis germplasm maintenance, multiplication, and cultivar evaluation. Mogale	What does the future hold? Simulating South Africa's land redistribution policy scenarios. Zantsi et al	Plant-parasitic nematodes associated with bush tea (<i>Athrixia phyllicoides</i>) in SA. Guga et al	Farmer Engagement Dr Matsaunyne (ARC)	

Time slots					13 February - (Programme continued)				
	Climate Smart Agriculture		Unlocking Value Chains		One Health				
	Theme 1 (continued)		Theme 2 (continued)		Theme 3 (continued)				
	Session 9 Dr D Swanevelder (ARC)		Session 10 Dr Toi Tsilo (ARC)		Session 11 Mr JH Venter (DALRRD)		Session 12		
14:30 - 14:45	Evaluation of Root Nodulation in Pigeonpea. Bopape et al		Exploring the use of plants to manage livestock diseases. Mpolokeng et al		Bacterial strains may provide remedy for American Foulbrood. Goszczyńska et al		Farmer Engagement - Dr Matsaunyne & Dr D Motiang (ARC)		
14:45 - 15:00	The farm-gate methane footprint of diverse beef cattle genotypes in SA. Scholtz et al		Variations in grain nutritional and phytochemical compositions among cowpea genotypes. Gumede et al (withdrawn)		The use of organic soil amendments and cover crops for plant-parasitic nematode management. Tefu et al				
15:00 - 15:15	Communicating and showcasing the results of climate modeling R&D work of the ARC. Kau & Matli		Exploring the role of knowledge brokers in smallholder livestock production systems. Motiang & Webb		The risk of tsetse flies and Trypanosomiasis establishing in Limpopo and Mpumalanga. Esterhuizen & Taioe				
15:15 - 15:30	Landscape genetics and ecological niche modeling for indigenous chickens. Mogano et al		The use of indigenous knowledge for agricultural decision-making: Agrometeorological learning. Zuma-Netshiukhwi		Critical analyses for monitoring authenticity adulteration - Tools for authentication of wines. van Jaarsveld et al				
15:30 - 15:45	From the ground up: building climate resilience in South Africa's diverse and dynamic rangelands. Samuels et al		Using case studies to develop an agro-ecological management framework for South Africa. Walker et al		Monitoring of Russian wheat aphid biotype distribution in South Africa: 2010 to 2023 Jankielsohn				
15:45—16:00	Q&A								
16:00 - 16:20	Tea (20 minutes)								

Time slots	13 February - (Programme continued)			
	Climate Smart Agriculture	Soil and Water Use	One Health	
	Session 13 Dr G Chirima (ARC)	Session 14 Dr J du Toit (ARC)	Session 15 Dr M Makgahlela (ARC)	Session 16
16:20 - 16:35	The effect of nano-additives on semi-continuous psychrophilic anaerobic digestion performance. Rama et al	Theme 5 Mass-rearing of weed biological control agents increases ... Efficacy Simelane et al	An FAO FAW Farmer Field School: A South African perspective. Lyle & Lundall-Magnuson	Farmer Engagement - Dr Matsaunyne & Dr D Motiang (ARC)
16:35 - 16:50	Biodiversity of a dung beetle assemblage ... as indicator of ecological quality. Jankielsohn	Revenue diversification in Africa through bio-based and circular agricultural innovations project – DIVAGRI. Hintsa et al	A conservation agriculture research strategy for South Africa Smith & Blignaut	
16:50 - 17:05	Why invest in National Public Good Assets maintained at the ARC Plant Health and Protection? Rong et al	Management of the invasive alien plant <i>Parthenium hysterophorus</i> (Asteraceae) in SA. Strathie et al	Review of South African legislation and policy related to agroecology. Kau et al	
17:05 - 17:20	Planting dates, plant population, nitrogen application and varieties for cultivation of pigeon pea in South Africa. Bello et al	Release and establishment of the defoliating tortoise beetle, <i>Physonota maculiventris</i> Stål as a biological control agent in SA. Mawela et al	Pepper ringspot virus (PepRSV), the latest threat to the South African potato industry Esterhuizen	
17:20 - 17:35	Smallholder Farmers' Adaptation Strategies to Climate Change. Shiba et al	Conservation and sustainable use of plant genetic resources for food and agriculture: The South African Approach. Tjikana	Synergistic effect of probiotics, organic acids, essential oils and stimbiotics in broiler production: A review. Mokonyama et al	
17:35 - 17:50	Q&A	Q&A	Q & A	
17:50 - 18:30	Posters and Networking			
18:30	Conference Cocktail Evening			

Wednesday - 14 February 2024

Time slots	Programme			
Plenary Session 17 - Dr A Verschoor (ARC)				
08:30 - 09:40	Panel discussion - Commercialisation: Dr V Phehane (TIA); Dr C Motsi (ARC); Dr K Ramoroka (IDC); Dr P Lebea (Tokabio) . Facilitator - Prof N Maiwashe (ARC)			
09:40—10:00	Plenary Presentation: Research Impact for Policy - Mr F Hale (FANRPAN)			
10:00- 10:20	Poster session and tea (20 min)			
10:20 - 11:20	Food Systems Transformation Through Multistakeholder Platforms Presentation Dr M Roefs (WUR), Prof J van Niekerk (UFS), Dr L Matsaunyane (ARC), Mr S Ndimande (DALRRD) . Facilitator— Dr S Venter (ARC)			
11:20 - 11:40	Address - 40 Years of Integrated Pest Research - Dr R Price (ARC)			
11:40—12:00	Address - Integrated Mycotoxin Management Systems - Dr B J v Rensburg (ARC)			
12:00—12:05	The Importance of Professionalisation— Mr T Mzobe (SACNASP)			
12:05- 12:45	Lunch (40 min)			
Research paper sessions				
	Climate smart Agriculture	Soil and water use	4IR & Big Data	Former Engagement - Ms T Ngotho (ARC)
	Theme 1 (continued)	Theme 5 (continued)	Theme 4	
	Session 18 Dr M Maila (ARC)	Session 19 Dr E Retief (ARC)	Session 20 Dr S Amoo (ARC)	
	Session 18 Dr M Maila (ARC)	Session 19 Dr E Retief (ARC)	Session 20 Dr S Amoo (ARC)	
	Session 18 Dr M Maila (ARC)	Session 19 Dr E Retief (ARC)	Session 20 Dr S Amoo (ARC)	
12:45 - 13:00	Thematic Address: Climate Change and Agriculture-Food Systems Prof S Walker (ARC)	Thematic Address: Land use and soil management Ms L Bosoga (DALRRD)	Dynamically downscaling historical and future CMIP6 model outputs for local-scale applications over southern Africa: 1980-2100. Roffe et al	
13:00 - 13:15	Impact of acidic electrolyzed water treatment for shelf-life extension. Nyamende et al	Recent development and trends in biological control of weeds research and implementation in South Africa. Zachariades	Soil nutrient maps for South Africa: mapping soil nutrient at 250m spatial resolution using machine learning. Munghemezulu et al	
13:15 - 13:30	WISHROOTS: Nitrification rate in the soil as influenced by wheat landrace varieties. Kidson et al	The impact of planting dates and hybrid selection on sunflower grain yield and oil content. Maali et al	The influence of large-scale agricultural investment on household food security in Nanyuki area of Kenya. Masola et al	
13:30 - 13:45	Effects of glycerol concentration during cryopreservation of bull epididymal semen. Mphaphathi et al	Continued effort toward post-release evaluation of the suite of biological control agents of Lantana camara in SA. Katembo et al	Leveraging 4IR Technologies for accurate maize crop mapping: a remote sensing approach. Jombo & Elbasit	
13:45 - 14:00	Climate change mitigation and adaptation through an integrated bioenergy-crop-livestock system. Buyeye et al	Detection of signatures of selection within and between South African Indigenous Veld Goats. Rashijane et al	Unravelling of Genes Associated with Coat Colour Patterns in South African Meat-type Goats. Gcabashe et al	
14:00 -14:40	Session 22- Strategic Implications for Agricultural R&D Session Chair— Dr BM Modisane (DALRRD) Speakers; Dr S Venter (ARC-DALRRD coordinator), Dr A Magadla (ARC), Ms L Bosoga (DALRRD)			
14:40-14:50	Vote of Thanks - LoC: Dr P Chaminuka (ARC), Mr M Mamabolo (DALRRD)			
14:50—15:05	Closing Address—Dr L Magingxa (ARC CEO)			
15:05	Tea and Departure			

National Anthem of South Africa

Nkosi sikelel' Afrika

Maluphakanyisw' uphondo lwayo,

Yizwa imithandazo yethu,

Nkosi sikelela, thina lusapho lwayo.

Morena boloka setjhaba sa heso,

O fedise dintwa le matshwenyeho,

O se boloke, O se boloke setjhaba sa heso,

Setjhaba sa South Afrika—South Afrika.

Uit die blou van onse hemel,

Uit die diepte van ons see,

Oor ons ewige gebergtes,

Waar die kranse antwoord gee,

Sounds the call to come together,

And united we shall stand,

Let us live and strive for freedom,

In South Africa our land.

Posters

<i>Authors</i>	<i>Poster titles</i>
Anderson JJ, Zuma-Netshiukhwi G and Wessels CH	Upscaling in-field rainwater harvesting for improved food security in selected rural communities of South Africa
Bello ZA, Craven M, Manzini S and Mashingaidze K	Evaluating germination rate and development of exotic lines of pigeon pea.
Chauke TR, Malatji DP, Subbotin SA, Maseko Z, Goszczynska T, Mamabolo MM and Swart A	Morphological, molecular, and toxicological study of <i>Anguina</i> spp. Associated with bacteria and insects found in the Western Cape and Gauteng provinces
de Waal HL and Groenveld R	The importance of Milk Recording for the dairy farmer and the use of INTERGIS as tool
Dlamini NM, Zikhali Z, Dzomba EF, Magawana M, Ngcamu S and Muchadeyi FC	Comparison of inbreeding levels in two Nguni cattle conservation populations using Bovine HD genotype data
Dube E, Khumalo T, Delpont P, Oliphant T, Du Plessis D and Tsilo TJ	Wheat Cultivar Evaluation in the Winter Rainfall Region
Fehrsen J, Wemmer S, Mutwanamba R and van Wyngaardt W	Animal-friendly diagnostic reagents
Gamedze NP, Mthiyane MM, Mavengahama S and Onwudiwe DC	Evaluation of geographic variation in nutritional and mineral quality of nano-primed <i>Mucuna pruriens</i> utilis progeny seeds
Goszczynska T, Ledwaba LK, Moloto MV and Nkgau, TF	Survey on occurrence of bacterial wilt caused by <i>Ralstonia</i> spp. in South Africa
Grundling AT, Laan M, vd, Araya NA and Grundling P	Poorly treated wastewater: an opportunity for irrigation but not without risks
Hadzhi Y, Sibiya J and Matsaunyane LBT	Assessing the efficacy of biocontrol agents as potential control alternatives to manage blight diseases of potato (<i>Solanum tuberosum</i> L.) in the field
Heyns IC	The ARCs spring wheat breeding programme for the winter rainfall region of the Western Cape
Janse van Rensburg B, Nkoko DP, Makgoga W and Maali S	Sunflower cultivar reactions to <i>Sclerotinia sclerotiorum</i> in the North West province
Lungwana M, Kau J, Nhundu K, Mamabolo M, Tjelele TJ and Mkhize NR	Barriers and opportunities of smallholder livestock farmers' participation in the forage seed value chain: A systematic review
Lungwana M and Ngcobo N	Female farmers challenges in animal diseases prevention and control
Lyle R, van Niekerk P, Swart M., Mooka J and Sgudhla E	Indigenous Knowledge Systems - The application of ash to manage FAW on maize
Maboa GL, Ncayiyana M, Ngwane CB, Zuma MK, Bello ZA and Walker S	Assessing knowledge, attitude, perception, and practices of Limpopo Extension Practitioners towards adoption of Climate-Smart Agriculture methods
Mabuza LM, Crampton BG and Swanevelder DHZ	Targeting the <i>CenH3</i> gene for haploid induction in sunflower using a viral delivery system for CRISPR/Cas9 components
Mailula LP, Nhundu K and Mushunje A	Technical efficiency and the adoption of GM TELA® Bt. maize among smallholder farmers in two South African province

Posters

Authors	Poster titles
Mampholo B ,Kafua L, Du Plooy I, Truter M and Araya H	Response of organic fertiliser on selected nutritional bioactive compounds on brassica vegetables
Maneli N, October FM, Freitag K, van Breda V, van Jaarsveld FP, van Wyk J and Opperman M	Assessment of grape pomace polyphenols
Mapumulo TC, Verschoor AJ and Ngcobo NN	Inclusive value chain development as key driver for smallholder institutional building in KwaNdaba: A DIVAGRI initiative
Mareledwane V, Adesiyun A and Hlokwé T	Absence of tuberculosis-causing Mycobacteria from slaughtered livestock tissues and environmental samples, Gauteng province, South Africa
Masondo NA, Maphothoma P, Tsoeu I, Mampholo B, Assefa A, Mashitola M, Makgwatla C, Sithole N and Mashiane P	Herbal feta cheese, fortified pasta, sweet potato smoothie and hemp hair food – A look into products developed at ARC-VIMP
Matafeni N, Witbooi H and Amoo S	Effect of vermiwash and cow urine on essential oil yield of German chamomile (<i>Matricaria chamomilla</i> L.) at flowering growth stages
Mathibela EO, Creux NM, Maes WH, Nsibo D and Swanevelder D	The effects of planting date on maize growth and development using unmanned aerial vehicle data
Mathonsi TL, Gebashe FC, Rotimi A, Bushula-Njah V and Mchunu NP	Preliminary screening of agro-morphological variations among and within Bambara groundnut [<i>Vigna subterranean</i> (L.)] landraces in Northern KwaZulu-Natal
Matjie W, Sekgwele MR, Sebothoma P, Tsatsimpe M, Matsaunyane LBT and Matjuda DS	The evaluation of digestate valorisation as biofertiliser on growth performance of <i>Phaseolus Vulgaris</i> compared to chemical fertiliser
Matjuda DS, Steyn PJ and Matsaunyane LBT	The composition of anaerobically digested cattle manure from smallholder biogas digesters in North West Province, and its quality as a potential biofertilizer
Mbere T, Swanevelder D, Pierneef R and Creux N	Automated high throughput plant phenotyping to assess sunflower planting dates.
Mbumba NW, Steyn PJ, Laurie SM, Labuschagne MT and Bairu MW	The evaluation of South African-bred potato varieties for tuber yield and processing quality
Mbuyazi MG, Dzomba EF, Muchadeyi FC and Hlongwane NL	Characterization of genetic diversity, level of admixture and risk to extinction of South African indigenous and village pig populations emanating from crossbreeding with prevailing exotic breeds
Mngomezulu P, Chikatira M and Dhavu K	What role indigenous knowledge systems play to Water-Energy-Food Nexus: the case of Amajuba District, KwaZulu-Natal, South Africa
Moketla MBM, Rotimi A, Stafford GI, Pierneef R, du Plooy I, Jansen van R and Gazendam I	Transcriptomic and metabolomic analysis of flavonoids biosynthesis in <i>Cannabis sativa</i> L. land races (varieties) of Southern Africa
Molebatsi A, Thaela-Chimuka MS and Risenga I	Quantitative swot analyses of farmers' suitability for aquaponics development and funding opportunities: A case study of Limpopo
Molele MJ, Mpanza TDE, Mbatha KR and Jiyana ST	Effects of harvesting stage and conservative technique on nutritive value of selected fodder trees.
Moloto MV and Goszczynska T	Specific PCR primers for detection pathogenic <i>Pantoea agglomerans</i> strains from onion plants and seeds
Motswagole MA, Kevake, Khabane PN and	Antimicrobial sensitivity testing of stored bacterial isolates from 2000 to

Posters

Authors	Poster titles
Motiang D, Mchunu A, Mkhize N	Analysis of slaughter auction prices among smallholder cattle farmers in two villages of Kwa-Zulu Natal
Mthembu TP, Pierneef R and Salawu-Rotimi A.	Antimicrobial resistance surveillance in smallholder mixed livestock farming systems using a Metagenomic approach
Mutema M, Nciizah AD, Mothapo M, Dhavu K, Sambo DC, Sombalo L, Mahlamvu S	Water Saving Options for Climate Smart Crop Production in Semi-arid Landscapes of Limpopo Province
Muthivhi J, Motiang D, Mchunu A, Mavuso X, Serithi D, Mpofu TJ and Mtileni BJ	Evaluation of the genetic composition and inbreeding of Nguni cattle within the Kaonafatso ya Dikgomo (KyD) scheme in certain regions of KwaZulu-Natal and Limpopo province: preliminary genetic mapping
Naidoo-Maharaj D, Amoo SO and Maharaj V	Valorizing indigenous knowledge through scientific innovation to identify new ingredients and develop high quality products: The value of quality control
Ncayiyana M, Tatsi S, Zuma N, Maboja L, Ngotho T, Myeni L and Zuma M	Upscaling Climate-Smart Agriculture in Limpopo Province Through Training for Agricultural Extension Practitioners
Ndlangamandla V, Gebashe C, Mchunu N, Rotimi A, Bushula-Njah V and Hlongwane N	Farmers' indigenous knowledge of South African and Eswatini Cannabis
Ngcobo N and Verschoor AJ	Knowledge and Practices of smallholder livestock farmers pertaining zoonotic diseases: A systematic review.
Ngobeni L, Mamabolo M, Madyo S and Lesiba P	Farmers perception on e-commerce platforms for agricultural products: A systematic literature review
Njom HA, Janse van Rensburg B, Bruwer P and Flett B	<i>Xanthomonas</i> and <i>Pantoea</i> spp. the cause of maize leaf bacterial diseases in four Provinces of South Africa
Nsele S	Design, construction and evaluation of a sustainable SDG-aligned greenhouse structure for small-scale farmers
Nthoke M, Risenga I and Thaela-Chimuka M	Adoption of aquaponics as a leapfrog technology for farms in the Gauteng Province, South Africa: a feasibility study
Phaladi NL, Mulabisana MJ, Roux-van der Merwe MP and Badenhorst J	Molecular characterization and determining the effects of viruses infecting leafy vegetables in Gauteng province
Rakau PN, Shimelis H, Mashilo J and Wanga MA	Induced mutagenesis and genetic advancement of tef [<i>Eragrostis tef</i> (Zucc.) Trotter] for grain and fodder production
Sebati M, Rotimi A, Gerrano A, Piernief R and Gokul J	Rhizosphere microbial diversity and function in Bambara groundnut landraces across South Africa
Segakoeng M, Mchunu A, Nini S and Hadebe H	Investigating factors contributing to pre-weaning goat mortality in KwaZulu-Natal and Eastern Cape: preliminary approach to the community study design
Sekhula SP	Unlocking Agricultural Potential: Resource Recovery from Sewage Treatment Plants for Sustainable Farming

Posters

<i>Authors</i>	<i>Poster titles</i>
Shiba WT, Aliber M and Mdiya L	Smallholder Farmers' Adaptation Strategies to Climate Change Effect: The case of Raymond Mhlaba Local Municipality, Eastern Cape Province, South Africa
Smit L, Langenhoven WE and Petersen Y	Microorganisms and DNA sequences in genebanks for research and critical diagnostic identifications in the Western Cape
Snijman JL and van der Merwe, M	Two new groundnut cultivars developed and registered
Stone W, Masola L, Verschoor AJ, Motsi H and Clarke C	The Circular Economy of Water Wastes as Soil Amendments: Agricultural Potential of Non-Edible Crops on City Sludge Wastes
Thema MA, Mphaphathi ML, Sehopela MD, Ledwaba MR and Mkhize NR	Comparison of semen retrieval methods and extenders on post-culled boar epididymal sperm motility
Tolmay VL	Aphid resistance in bread wheat, <i>Triticum aestivum</i> (L)
von Well E and Ncala M	Small-Grain Germplasm Collection and Introduction & Evaluation of new International Germplasm
Wessels CH, Anderson JJ and van Niekerk JA	Exploring the poor uptake of new agricultural-based technologies in rural communities in South Africa
Yanclo LA, Belay ZA, Sigge G and Caleb OJ	Changes in antioxidants activity and flavonoids content as a function of cultivars differences and cold plasma treatment of mango fruit
Zuma-Netshiukhwi G, Anderson JJ, Ncayiyana M and Zuma MK	Strengthening agricultural productivity through Climate-Smart Agriculture: Limpopo Case Study