



The Seventh African Higher Education Week and RUFORUM Triennial Conference 2021

The 16th RUFORUM Annual General Meeting

Date: 09th December 2021

Registration Link: <https://bit.ly/3t9PzwU>

SCIENTIFIC CONFERENCE SESSIONS

OPENING SESSION

THURSDAY 9 th December, 2021	
PLENNARY SESSION	
VENUE: Palais des Congrès	
CHAIR: Dr. Abdou Tenkouano, Executive Director, CORAF; a.tenkouano@coraf.org	
RAPPORTEUR: Prof. Flora Josiane Chadare, National University of Agriculture, Benin; fchadare@gmail.com Dr Jolyn Rukarwa Runyararo, RUFORUM Secretariat; r.runyararo@ruforum.org	
Time	
8:30 – 8:40	WELCOME REMARKS: Prof. Youssao Issaka, Director of Higher Education and Scientific Research, Republic of Benin
8.40- 8.50	Remarks from RUFORUM Prof. Florence Uphie Chinje Melo; un@univ-ndere.com Vice Chancellor, University of Ngaoundere, Cameroon
8:50 – 9:00	OFFICIAL OPENING ADDRESS His Excellency Mutondo Muhindo Nzangi: mudogov@gmail.com Minister of Higher Education, Democratic Republic of Congo
9:00 – 9:15	Key Note Paper: Strengthening Africa's Agri-Food Systems to meet the continents development aspirations Dr Yemi Akinbamijo: yakinbamijo@faraafrica.org Executive Director, Forum for Agricultural Research in Africa
9:15 – 9:30	Lead Paper 1: Climate Change and its impacts on Agriculture - Green House Gas emissions, renewable energy Prof. Ki Hee Ryu: kiheeryu@snu.ac.kr Institute of Green Bio Science and Technology, Seoul National University, Korea
9:30 – 9:45	Lead Paper 2: Value addition and improved postharvest management to meet Africa's and the global urban food system transitions Prof Umezuruike Linus Opara: opara@sun.ac.za Stellenbosch University, South Africa
9.45-10.00	Lead Paper 3: Addressing Malnutrition/Human Nutrition Dr Tahra Elobeid: Tahra.e@qu.edu.qa

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CO-ORGANISERS:





	Head Department of Human Nutrition, Qatar University, Qatar
10:00 – 10:20	General Discussion
10:20 – 10:50	Health Break and Breaking into Parallel sessions

PARALLEL SESSIONS

THURSDAY 9 th December, 2021	
PARALLEL SESSION 1	
TIME: 1100-1340	
THEME: ENHANCING SUSTAINABLE AGRIFOOD SYSTEMS PRODUCTIVITY	
VENUE: Palais des Congrès	
CHAIR: Dr. Basil Mugonola, Gulu University; basil.mugonola@gmail.com	
RAPPORTEURS: Dr Eric Agoyi; ericagoyi@gmail.com	
Time	
11:00 – 11:05	WELCOME REMARKS BY SESSION CHAIR:
11:05 – 11:20	Key Note Paper: Harnessing Africa's agrifood systems to improved livelihoods: Imperatives and lessons learnt in the past 15 years Dr. Patrick Okori, ICRISAT Director Malawi; okoripatrick2@gmail.com
11:20 – 11:30	Discussion:
11:30 – 11:40	Paper 1: Modelling soybean yield response to nutrients applications under projected climate change scenarios in Benin Chabi, Faki, University of Abomey-Calavi, Benin; chabifaki@gmail.com
11:40 – 11:50	Paper 2: Towards Crop Improvement in Africa: Efforts of the Makerere ACE Dr Richard Edema, Makerere University, Uganda : redema14@gmail.com
11:50 – 12:00	Paper 3: Amélioration de la productivité de l'amarante (<i>Amaranthus cruentus</i>) avec compost à base de biomasse de bananiers Awodé Justin, Université Nationale d'Agriculture, Benin; justinawode@gmail.com
12:00 – 12:10	Discussion
12:10 – 12:20	Paper 4: Seed coat postharvest darkening in common bean: paths towards breeding for better marketability Arfang Badji, National Crops Resources Research Institute of Namulonge, Uganda; dabgarf42@gmail.com
12:20 – 12:30	Paper 5: Perception par les éleveurs de la diversité des ressources alimentaires utilisées pour la complémentation des petits ruminants dans les élevages traditionnels au Bénin Gnikplekpo E.L.R, Université d'Abomey Calavi, Bénin; euvarard.gnikplekpo@uliege.be / evramenou@yahoo.fr / gnilaneuro89@gmail.com
12:30 – 12:40	Paper 6: Effect of heats stress on the germination of thirteen cowpea (<i>Vigna unguiculata</i> L. Walp) released varieties in West Africa Symphorien Agbahoungba, Université d'Abomey Calavi, Bénin; agbahoungbasymphorien@gmail.com
12:40 – 12:50	Discussion
12:50 – 13:00	Paper 7: Insecticidal performance of <i>Cnidioscolus aconitifolius</i> in the control of crop and stock pest of cowpea: exploratory acute oral toxicity studies Lydia Hangnilo, University of Abomey-Calavi, Benin; baloulydia@yahoo.fr





13:00 - 13:10	Paper 8: Application of multi-locus GWAS for the detection of Bruchid resistance loci in cowpea [<i>Vigna unguiculata</i> (L.) WALP.] Akovognon D. Kpoviessi, University of Abomey-Calavi, Benin; akpoviessi@gmail.com
13:10 - 13:20	Paper 9: Population build-up and damage of <i>Scutellonema bradys</i> and <i>Meloidogyne</i> spp. on local yam cultivars under fields and storage conditions in Benin Affokpon, A. University of Abomey-Calavi; affokpona@gmail.com
13:20 - 13:40	Discussion & Closing Remarks by Session Chair

THURSDAY 9th December, 2021

PARALLEL SESSION 2

TIME: 1100-1340

THEME: ENHANCING NATURAL RESOURCE SUSTAINABILITY AND ENVIRONMENT HEALTH

VENUE: Palais des Congrès

CHAIR: Prof. Goerge Nyamadzawo; gnyama@yahoo.com

RAPPORTEURS:

Time	
11:00 – 11:05	WELCOME REMARKS BY SESSION CHAIR:
11:05 – 11:20	Key Note Paper: Research opportunities in the agricultural and environmental sectors in Africa Dr. Ackim Mwape, Global Research Alliance for Agricultural Greenhouse Gases; Ackim.Mwape@nzagrc.org.nz
11:20 – 11:30	Discussion:
11:30 – 11:40	Paper 1: Modélisation des systèmes de production agricole dans le Bassin Versant de l'Okpara : Secteur Tchaourou-Okpa Benin Adetona Luc, Université de Parakou, Benin; adetonaluc5@gmail.com
11:40 – 11:50	Paper 2: Priorisation des pratiques agroforestières de conservation des sols dans la zone soudanienne au Benin Teteli, C. S., National University of Agriculture, Benin; padonouelie@qagbmail.com
11:50 - 12:00	Paper 3: Fonction de demande des Produits Forestiers Non Ligneux : cas de la Reserve de Biosphère Transfrontalière du W au Benin Bonou Alice, Université Nationale d'Agriculture Benin; alice.bonou@gmail.com
12:00 – 12:10	Discussion
12:10 - 12:20	Paper 4 Climate Resilience in Post-COVID-19 Africa: Lessons from Moroccan Climate Action Dayoon Joo, Graduate School of International Studies, Seoul National University, Korea; joo.dyoona@snu.ac.kr
12:20 – 12:30	Paper 5: Beyond the borders: conflicts over natural resources in Africa Hansol LEE, Seoul National University, Korea; ihansol14@snu.ac.kr / mpark@snu.ac.kr
12:30 - 12:40	Paper 6: Title: Factors affecting the adoption of climate risks adaptation strategies within maize farming systems in Malawi: Do farmers risk attitude matter? Ruth Magreta; ruth.magreta@yahoo.com
12:40 - 12:50	Discussion
12:50 - 13:00	Paper 7: Tempo-spatial ecosystem service delivery variations of landscape restoration practices in Ethiopia

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CO-ORGANISERS:





	Abera Assefa, Haramaya University: aberaassefa@gmail.com
13:00 - 13:10	Paper 8: <i>Calliandra calothyrsus</i> in Ruhande Arboretum, Huye, Rwanda - an invasive species? Verene Nyiramvuyekure, University of Rwanda; nyiramvuyekure@gmail.com
13:10 - 13:20	Paper 9: Structure et phenologie de la strate herbacee au sahel Senegalais : Entre sites pâturé et mis en défens et entre saison des pluies précoce et saison des pluies tardive Ousmane Diatta, Institut Sénégalais de Recherches Agricoles, Senegal; sadioumane@hotmail.com
13:20 - 13:40	Discussion & Closing Remarks by Session Chair

THURSDAY 9th December, 2021

PARALLEL SESSION 3

TIME: 1100-1340

THEME: IMPROVING VALUE ADDITION AND POSTHARVEST MANAGEMENT PRACTICES TO STRENGTHEN AGRIFOOD SYSTEMS AND INCOMES

VENUE: Palais des Congrès

CHAIR: Prof. Johnny Mugisha, Makerere University; johnnymugisha@gmail.com

RAPORTEURS:

Time	
11:00 – 11:05	WELCOME REMARKS BY SESSION CHAIR:
11:05 – 11:20	Key Note Paper: Prof. Flora Josiane Chadare, National University of Agriculture, Benin; fchadare@gmail.com
11:20 – 11:30	Discussion:
11:30 – 11:40	Paper 1: Baobab leaves production for household consumption: a synthesis of existing techniques Hounsou-Dindin, Guillaume, University of Abomey-Calavi, Benin; guillaumehehd@gmail.com
11:40 – 11:50	Paper 2: Contenu pollinique des miels récoltés dans un champ de <i>Cajanus cajan</i> (L.) Millsp (Fabaceae) dans la commune de Djidja (Bénin) Isabelle Houéfa Kenali; Université d'Abomey-Calavi, Benin; Kenaliisabelle@gmail.com
11:50 - 12:00	Paper 3: Saisonnalité et composition alimentaire des recettes alimentaires au nord-ouest du Bénin Yahgo Judes, Université d'Abomey-Calavi Benin; yahgojudes02@gmail.com
12:00 – 12:10	Discussion
12:10 - 12:20	Paper 4: Organization of baobab leaf powder market in the sudano-guinean zone of Benin: Case of the municipality of Dassa-Zoumè Idohou, V.Y.O University of Abomey-Calavi, Benin; fchadare@gmail.com
12:20 – 12:30	Paper 5: Influence of Activity Time, Socio-cultural and Institutional Factors on the Exclusive Breastfeeding Practices Among Mothers of Children Aged 0-5months Fanou-Fogny N, Université d'Abomey Calavi, Bénin; bernadetteboyiako@gmail.com
12:30 - 12:40	Paper 6: Mycotoxins detected in chicken products fed with contaminated poultry feeds from smallholder farmers in Western Kenya Rachuonyo, H.A, University of Eldoret, Kenya; rachuonyo@yahoo.com
12:40 - 12:50	Discussion
12:50 - 13:00	Paper 7: Gestion des déjections des poules pondeuses de la « Grande Ferme » du GIC AECAM de Mendong et proposition d'un système de traitement





	Séverin Mbog Mbog, Université de Douala, Cameroun; severinmbog.sm@gmail.com
13:00 - 13:10	Paper 8: Assessment of Milk Safety Practices among Smallholder Dairy Farmers in Nyandarua West Sub-County, Kenya. Ntabo, A.N Atsiaya, G.O, Egerton University; ntaboagnes@gmail.com
13:10 - 13:20	Paper 9: Status of smallholder rice farmers and their rice post-harvest value addition levels in the Southern Region of Sierra Leone Kamanda, P. J, University of Cape Coast; pikamanda@njala.edu.sl / kama.pj06@gmail.com
13:20 - 13:40	Discussion & Closing Remarks by Session Chair

THURSDAY 9th December, 2021

PARALLEL SESSION 4

TIME: 1430-1730

THEME: STRENGTHENING RESEARCH AND COMMUNITY CONNECTEDNESS TO ENHANCE RURAL AGRICULTURAL TRANSFORMATION

VENUE: Palais des Congrès

CHAIR: Prof. Mulwa Richard, Egerton University; rmulwa@egerton.ac.ke / risamuk@gmail.com

RAPPORTEURS: Dr. Bassirou Ndoeye, USSEIN; bndoye2019@gmail.com

Time	
14:30 – 14:35	WELCOME REMARKS BY SESSION CHAIR:
14:35 – 14:50	Key Note Paper: Enhancing Technology Transfer through Community Engagement: The approach and the experience of the National Agricultural Research Organisation and Research and Education Agency. Kawuki Robert, National Crop Resource Research Institute; kawukisezirobert@gmail.com
14:50 – 15:00	Discussion:
15:00 – 15:10	Paper 1: Impact of Community Action Research Project (CARP+1) on the livelihoods of smallholder pig farmers in northern Uganda Ndyomugenyi E. K., Gulu University; ellyndyomugenyi@gmail.com
15:10 -- 15:20	Paper 2: Farmers' perception of the effectiveness of soldiers in delivery of agricultural inputs under Operation Wealth Creation Program in Uganda Morrish Ochen, Makerere University, Kampala, Uganda; morrishochen@gmail.com
15:20 - 15:30	Paper 3: Building excellence in science through innovative financing scheme of higher education and research Nicodème V. Fassinou Hotegni, University of Abomey-Calavi, Benin; nicodemef@gmail.com
15:30 - 15:40	Paper 4: Determinants of poverty in Malawi Presenter: Hyunju Oh, Graduate School of International Agricultural Technology, Seoul National University, South Korea; hyundu215@snu.ac.kr
15:40 – 16:00	Discussion
16:00 - 16:10	Paper 5: Interactions entre génétique, nutrition et infestation des ovins avec Haemonchus contortus Habib Rainier Vihotogbe Whannou, Université d'Abomey Calavi, Bénin; raidvich27@gmail.com





16:10 – 16:20	Paper 6: Performance measures in public–private partnership for scaling out research innovations in higher learning Institutions: Case of MAK-RIF Kalimunjaye Samuel, Makerere University, Uganda; kali.samuel@gmail.com
16:20 - 16:30	Paper 7: Local environmental factors characterizing <i>Rhipicephalus appendiculatus</i> abundance in cattle grazed permanent pastures in the South Kivu province, Democratic Republic of the Congo Ciza Arsène Mushagalusa, University of Abomey Calavi; shaga.ciza@gmail.com
16:30 -	Discussion
16:30 - 16:40	Paper 8: Smallholder farmer preferences of cowpea characteristics in Zambia: A choice that tells a story Mwila N., University of Zambia; mwilanatasha@yahoo.co.uk
16:40 - 17:00	Paper 9: Safflower the Climate Smart Crop for Arid and Semi-arid Lands Emongor, V. E, Botswana University of Agriculture and Natural Resources; vemongor@gmail.com / vemongor@buan.ac.bw
	Paper 10: Modeling Factors Influencing Production of Gum Arabic by Households in Sheikan Locality, North Kordofan State, Sudan Hatim Elamin, RUFORUM Secretariat, Uganda; hatim822002@yahoo.com
17:00 - 17:20	Discussion
17:20 - 17:40	GENERAL DISCUSSION AND CLOSING

THURSDAY 9th December, 2021

PARALLEL SESSION 5

TIME: 1430-1730

THEME: STRENGTHENING ENTREPRENEURSHIP FOR YOUTH EMPLOYABILITY AND AGRIBUSINESS DEVELOPMENT

VENUE: Palais des Congrès

CHAIR: Dr. Walter Odongo, Gulu University, odongo78@gmail.com

RAPORTEURS: Napoleon Kajunju, Makerere University, napkajunju@gmail.com

Time	
14:30 – 14:35	WELCOME REMARKS BY SESSION CHAIR:
14:35 – 14:50	Key Note Paper: Paving the way for a socially inclusive and gender-sensitive extension in the Global South: when young entrepreneurs support farmer-to-farmer learning across Africa and Asia Florent Okry, Access Agriculture; florent@accessagriculture.org
14:50 – 15:00	Discussion:
15:00 – 15:10	Paper 1: Evaluation participative et rentabilité de l'association culturale oignon - arachide au Sud-Kivu, Est de la R.D Congo Serge S. Ndjadi, University of Abomey Calavi, ndjadishakanye@gmail.com
15:10 -- 15:20	Paper 2: Does participation in village saving and loan associations spur maize commercialisation among smallholder farmers of Nwoya district in Uganda? Achieng Sarah, Gulu University, sarahachieng23@gmail.com
15:20 - 15:30	Paper 3: Correlations between marketing strategies and product lines: A case of cassava microenterprises in Migori County, Kenya Ngenoh G.C, Egerton University, ngenoffrey@gmail.com
15:30 - 15:40	Paper 4: University-industry linkages and graduate employability: status, gaps and opportunities in east Africa





	Geoffrey Bwireh, University of Nairobi; gbwireh@must.ac.ug
15:40 – 16:00	Discussion
16:00 – 16:10	Paper 5: Effect of Entrepreneurial Behaviour on Small Scale Potato Farm Performance: Evidence from Kenya John Atsu Agboloso, Egerton University; agbolosoojohn@gmail.com
16:10 – 16:20	Paper 6: Preliminary assessment of the impact of COVID-19 on crop production in the Central District of Botswana Tebogo Mokumako, Botswana University of Agriculture and Natural Resources; tebmok86@gmail.com
16:20 – 16:30	Paper 7: Challenges and Opportunities of Seed Potato Production in South Western Uganda Nabasumba Sylvia, Uganda Martyrs University, snabasumba@umu.ac.ug
16:30 – 16:40	Paper 8: Socio-economic determinants of livelihood vulnerability to rainfall variability in Semi-arid Kenya Mwatu, Morris M., Egerton University; mmmwatu76@gmail.com
16:40 – 17:00	Discussion
17:00 – 17:30	GENERAL DISCUSSION AND CLOSING

THURSDAY 9th December, 2021

PARALLEL SESSION 6

TIME: 14:30-17:50

THEME: HARNESSING DIGITAL TECHNOLOGIES FOR TEACHING, RESEARCH AND AGRICULTURAL EXTENSION DELIVERY

VENUE: Palais des Congrès

CHAIR: Dr. Valère Salako, University of Abomey Calavi; salakovalere@gmail.com

RAPORTEURS: Dr. Castro G. Hounmenou, University of Abomey Calavi; castrohounmenou@gmail.com

Time	
14:30 – 14:35	WELCOME REMARKS BY SESSION CHAIR:
14:35 – 14:50	Key Note Paper: Prof Jude Lubega: Harnessing Digital Technology for Agricultural Transformation in Africa : judlub@gmail.com
14:50 – 15:00	Discussion:
15:00 – 15:10	Paper 1: Dr Drake P. Mirembe: Harnessing Digital Technology for community development
15:10 – 15:20	Paper 2 : Analyse des changements spatio-temporels des occupations des sols dans les territoires de Kabare et Walungu au Sud-Kivu entre 2000 et 2018: Utilisation des outils de la télédétection et du modèle Random Forest. Yannick Mugumaarhahama, Université Evangélique en Afrique lesmas2020@gmail.com
15:20 – 15:30	Paper 3 : Accès facile à l'information agricole pour mieux faire face aux changements climatiques: quel service de dissémination des vidéos de formation choisissent les producteurs de la vallée de l'Ouémé (Sud-Bénin) parmi les services de dissémination les plus répandus. Fistel LIGAN Université Nationale d'Agriculture, lifs2000@gmail.com
15:30 – 15:40	Paper 4: Agriculture MOOCs for improving access to lifelong learning in Higher Education Institutions (HEIs): What are the perceptions of the learners? Kalibwani, R.M. Bishop Stuart University, rmkalibwani@faest.bsu.ac.ug
15:40 – 16:00	Discussion
16:00 – 16:10	Paper 5: Drivers of e-commerce uptake: a case of Makerere university. Proscovia Katumba, Makerere University hnamaweje@gmail.com or hnamaweje2@bams.mak.ac.ug

CO-ORGANISERS:





16:10 – 16:20	Paper 6: Détermination des dates favorables aux semailles du riz pluvial au Bénin par simulation mathématique des probabilités de survenue des séquences sèches. Moudjahid Akorédé Wabi, Ghent University wmouako@yahoo.fr
16:20 - 16:30	Paper 7: Towards an AI-powered IoT approach for automated Control and Monitoring of Mycotoxins Infections in cereals Emmanuel Masabo, University of Rwanda masabem@gmail.com
16:30 – 16:45	Discussion
16:45 - 16:55	Paper 8: Telecom Network Energy Management for Sustainability in Sub-Saharan Africa: Towards a Solution through a Systems Approach Ceriano Mbiika, University of Pretoria mbiikacerol@gmail.com
16:55 - 17:05	Access and usage to e-Extension Services among Smallholder farmers in Nakuru County, Kenya. Viola Kirui, Egerton University viola.kirui@egerton.ac.ke
17:05 - 17:15	Using GIS and remote sensing to assess the past trends in land use/cover change in Ahafo Ano North District, Ghana Osei, Paul University of Cape peeosei105@gmail.com
17:15 -17:35	Discussion
17:35 – 17:50	GENERAL DISCUSSION AND CLOSING

