



Donald Rugira-KUGONZA

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#### **About/Introductory statement**

Donald Rugira Kugonza Akiiki is an Animal Scientist with BSc. Agriculture honours degree (1997), M.Sc. Agriculture (Animal Science) (2003), Doctorate of Philosophy (PhD) in Animal Breeding and Genetics (2010) from Makerere University, and a first class Master of Business Administration (MBA) *summa cum laude* from the prestigious Amity Business School (2016). He is an Associate Professor teaching animal breeding, genetics, animal agriculture and apiculture courses. He is also an Adjunct Professor of BioSciences at Chandigarh University in India.

He coordinates the Service Learning Internship Program, a **15**-year collaboration between Makerere University and Iowa State University, USA. His major research interests are in conservation and performance improvement of African Animal Genetic Resources. He is Chairperson of Management/Advisory Boards of several national and regional organisations including: the National Livestock Resources Research Institute (NaLIRRI) of NARO; the Fisheries Training Institute (FTI); the Uganda National Bureau of Standards (UNBS) Technical Committee (TC2/SC14) on Apiculture & Apiculture Products.

He is President of the Association of Uganda Professional Agriculturalists (ASUPA); and is member of the African Union-InterAfrica Bureau for Animal Resources (AU-IBAR) Taxonomy Advisory Group and member of the African Technology and Innovation Incubators Advisory Committee (ATIAC); the Uganda Society of Animal Sciences (USAS). He is an assiduous Editor of Elsevier's Scientific African Journal (SciAf), and Sub-editor for the South African Journal of Animal Science (SAJAS) and a regular reviewer for several high impact journals in his specializations. He has won several awards

at national, regional and international level for research that impacts livelihoods and creates knowledge. His international engagement as a Uganda delegate at world events goes back 26 years when he rose to be a full-term Vice Chairman of the World Youth Forum after a vote by 113 countries.

## Biography

I am a passionate animal scientist, currently an Associate Professor of animal agriculture, apiculture, animal breeding and genetics at Makerere University and an Adjunct Professor of BioSciences at Chandigarh University, India. I get a rush from helping others succeed, a process catalyst, science mentor a change agent and have taught and mentored learners from all over the world. Am highly motivated and result-driven, with over **20** years of teaching, and an acclaimed extensive collaborative research engagement of **30** grants, and a prolific author of **3** books, **14** book chapters, **71** high impact journal papers, **65** conference papers that I presented in Japan, Sweden, New Zealand, Norway, Italy, India, USA, Egypt, South Africa etc. I have collaborated with over **195** scientists from over **100** institutions across the world focused on optimizing agricultural productivity through performance improvement of a wide array of several Animal Genetic Resources.

I have extensively researched, published on and farmed pigs, goats, cattle and various poultry species; as well as possess international expertise in livestock breeding, genetics and apiculture. I have strongly contributed to agricultural policy in East and Central Africa by collaborating very closely under various platforms with the Association for Strengthening Agricultural Research in East and Central Africa (ASARECA). I won the 2019 Award for Outstanding Contribution to the Development of the Characterisation, Inventory and Monitoring Tool (AnGR-CIM-Tool) for Animal Genetic Resources of Africa under the patronage of the African Union Commission. In 2017, I won the Best Alumna Award for the Australia Africa Awards Course on Increasing the Development Impact of Agricultural Research (IDIAR). Recent fellowships won include: Evidence-informed Policymaking Fellowship by the European Commission (2018), Visiting Scientist Fellowship to Iowa State University, College of Agric. & Life Sciences (2013, 2017).

I enjoy developing curricula that transform learners into doers and better citizens and have contributed to curricula for several tertiary education institutions in Uganda, Kenya and Rwanda. Am currently an Editor for Elsevier's journal *Scientific African*; a sub-Editor for the *South African Journal of Animal Sciences* as well as being an assiduous reviewer for Eight high impact journals in the discipline of Animal Science and Production. Mountaineering is my side passion and am looking forward to my eighth conquest, having cleared Mt. Kenya (1997), Uluguru Mts. (1999), Mt. Mgahinga (2013), Mt. Kilimanjaro (2014), Aberdare Ranges (2017), Mt. Muhabura (2020) among others. My publications on Research-Gate have over **182,300** reads/downloads from across the world, making me one of the most read about authors in Makerere during the recent years; and with almost **1000** Google Scholar citations & over **11,600** professional connections on LinkedIn, the rise is still on.

## Other Activities

1. Fellow, Uganda National Academy of Sciences (UNAS), **2017-present**
2. Chairman, Advisory Committee of the National Livestock Resources Research Institute (NaLIRRI) – National Agricultural Research Organisation (NARO) **2014-present**
3. Chairperson, Governing Council, Fisheries Training Institute, Entebbe, Uganda (Representative of All Public Universities in Uganda on the Council). **2015-present**
4. Chairperson, Uganda National Bureau of Standards (UNBS) Technical

Committee (TC2/SC14) on Apiculture and Apiculture Products **2019-present**

5. Sub-Regional Focal Person for Animal Genetic Resources, Association for Strengthening Agricultural Research in Eastern & Central Africa (ASARECA), **2017-present**
6. Acting President & Member, Association of Uganda Professional Agriculturalists (ASUPA), **2021-present**
7. Member, African Technology and Innovation Incubators Advisory Committee (ATIAC) for the African Union Commission **2020-present**
8. Member, African Organization for Standardization (ARSO), Technical Committee ARSO/TC 02 Apiculture and Pollination Services, **2021-present**
9. Member, Taxonomy Advisory Group for AnGR of the African Union-InterAfrica Bureau for Animal Resources (AU-IBAR), **2015-present**
10. Acting Head of Department, Department of Agricultural Production, College of Agricultural & Env. Sciences, Makerere University, **Occasional**
11. Secretary, Masindi Avocado Farmers' Cooperative Society Limited, **2021-present**
12. Member, Feed Security Assessment Team, Ministry of Agriculture, Animal Industry and Fisheries (MAAIF, Uganda), **2021-present**
13. Member, School Academic Board, School of Agricultural Sciences, **2013-present**
14. Member, Forum for Agricultural Research in Africa (FARA), **2013-present**
15. Member, Africa Society of Animal Production (AASAP),
16. Founder Member, African Animal Breeding Network (AABNet)
17. Member, Domestic Animal Diversity Network - DAD-Net (hosted by FAO),
18. Founder Member, Entomological Association of Uganda (EAU)
19. Founder Member, The Uganda National Apiary Development Organisation (TUNADO)
20. Member, The Uganda Society
21. Member, Uganda Society of Animal Science (USAS)
22. Academia Representative, World Poultry Science Association - Uganda Branch
23. Member, Advisory Group Network of the African Youth Movement – Committee on Agriculture, Technology and Economy, **2015-2019**
24. Member, Makerere University Agricultural Research Institute Kabanyolo (MUARIK) Policy Committee, Makerere University, **2014-2018**
25. Member, Anti-sexual Harassment Committee, Makerere University, **2009-2012**
26. Member, Faculty Board, Faculty of Agriculture, Makerere University, **1997-2013**
  - BSc Agriculture
  - BSc. Food Science and Technology

## Teaching

- BSc. Forestry
- Bachelor of Agricultural & Rural Innovation
- Bachelor of Education
- Bachelor of Animal Production and Management
- Master of Science in Animal Science
- Master of Science in Biomedical Technology

## Research

### Format: Project Funder-Project Code - Project Title - Project Acronym - Duration

1. *Sustainable Development Goals Fund* - Characterization, Production and Reproductive performance of the Small East Africa Zebu x Tyrolean Grey Cattle Crosses in Uganda's Agro-ecological zones, 2022-2025
2. *Austrian Development Cooperation + Austrian Partnership Programme in Higher Education and Research for Development (APPEAR)* - Finding the silver piglet: Best types of pigs for smallholder, medium size and commercial pig farms in Uganda – SilverPiglet – 2022-2025.
3. *African Union Commission* - AURG-II/2/2018 - Marker-assisted Breeding of Selected Native Chickens in Mozambique and Uganda - Native Chicken project. 2019-2022
4. *GoU & Makerere University Research and Innovation Fund 2020* - MAK RIF2/CHUSS/015 - Reversing under-five child malnutrition: multidisciplinary innovations to improve free-range chicken production and consumption, 2020-2022
5. *International Livestock Research Institute (ILRI)* - CRP001113 - Improving Pig Productivity and Incomes through an Environmentally Sustainable and Gender Inclusive Integrated Intervention Package, 2019-2021
6. *European Union & Ministry of Science, Technology & Innovation* - LEAP-AGRI-326 - Genetic Characterization of Cattle Populations for Optimized Performance in African Ecosystems (OPTIBOV), 2018-2022
7. *GoU & Makerere University Research and Innovation Fund 2019* - MAK RIF1/CAES/009 - Integrating Assisted Reproductive Technologies and Elite Pig Genetics to Transform the Pig Value Chain in Uganda (IntARTs Genetics); 2019-2021
8. *National Agricultural Research Organisation (NARO) Competitive Grant Scheme (CGS)* - CGS/2/16/14 - Establishing Boar Semen Centres and Database for Commercializing Liquid Boar Semen in Uganda; 2017-2018
9. *Regional Universities Forum for Research on Agriculture (RUFORUM)* - RU-2015-GRG-122 - Incorporating Climate Smart and Fast Growth Traits to Transform the Local Chicken Value Chain in Uganda (SMART-Chickens); 2015-2017
10. *Regional Universities Forum for Research on Agriculture (RUFORUM)* - RU-2015-GRG-123 - Enhancing Production and Incomes in the Honey Value Chain through Addressing the Challenges of Pests and Parasites of Honeybees in Uganda (Bee Health); 2015-2017
11. *Regional Universities Forum for Research on Agriculture (RUFORUM)* - RU-2015-GRG-119 - Enhancing Commercial Production and Marketing of Local Chickens in Northern Uganda through Innovation Platforms (ECOPROMALI); 2015-2017
12. *National Agricultural Research Organisation (NARO) Competitive Grant Scheme (CGS)* - CGS/2/16/14 - Improvement of Pig Productivity through Diversification of Piglet Nutrition Options and Up Scaling of Pig Artificial Insemination in Uganda;

2014-2016

- 13.** Regional Universities Forum for Research on Agriculture (RUFORUM) - RU-CGS-GRG-30-9-11 - Enhancing Local Chicken Productivity through Strategic Breeding and Nutrition Management in Northern Uganda (ELOCHIP); 2012-2014
- 14.** National Agricultural Research Organisation (NARO) Competitive Grant Scheme (CGS) - Participatory Development of the Strategies for Improving Kid Survivability amongst Goats of All Genotypes in the Extensive Production System of South-Western Uganda; 2010-2013
- 15.** Carnegie Corporation, New York - Influence of Management System on Growth and Carcass Characteristics of Ugandan Local Chickens; 2010-2012
- 16.** National Agricultural Research Organisation (NARO) - Integration of Efficient Chicken Management Strategies and Commercial Production into the Cash Economy of Smallholder Farmers in Lake Victoria Crescent Zone; 2010-2014
- 17.** Association for Strengthening Agricultural Research in Eastern & Central Africa (ASARECA) - Testing and Validation of Breed Survey Methodology, Socio-economic survey and characterization of Selected Indigenous Cattle of Eastern and Central Africa; 2009-2011
- 18.** Carnegie Corporation, New York - Development of an Improved Protocol for Processing and Handling of Honey in Uganda; 2009-2011
- 19.** National Agricultural Research Organisation (NARO) Competitive Grant Scheme (CGS) - Enhancing Smallholder Pig Productivity through Efficient Utilisation of Local Feed and Elite Pig Resources in the Lake Victoria Crescent; 2008-2010
- 20.** National Agricultural Research Organisation (NARO) Competitive Grant Scheme (CGS), Increasing Smallholder Pig Productivity: Integrated Approaches to Breeding, Feeding and Control of African swine fever; 2007-2009
- 21.** National Agricultural Research Organisation (NARO) Competitive Grant Scheme (CGS) - Socio-economic Impact Assessment of Goat Productivity Interventions and the Use of Innovative & Participatory Breeding Approaches in Uganda; 2007-2009
- 22.** National Agricultural Research Organisation (NARO) Competitive Grant Scheme (CGS) - Development of Honeybee Pest and Disease Control Methods to Improve the Quality of Honey and Other Hive Products in Uganda; 2007-2009
- 23.** Network of Ugandan Researchers and Research Users (NURRU) - Analysis of the Production & Marketing Channels of Local Chickens & their Products in Central Uganda; 2008-2009
- 24.** National Agricultural Research Organisation (NARO) Competitive Grant Scheme (CGS) - Improving Free Range Poultry Productivity in North West Uganda; 2007-2008
- 25.** African Institute for Capacity Development (AICAD) - Suckling Management and Feeding Strategies of Sows & their Litters in an Integrated Pig and Crop Production System on Smallholder Pig Farms; 2006-2008
- 26.** Promotion of Local Innovation / Centre of Development Research Network (ProLINNOVA/ CDRN) - Farmer Innovation in Incubation and Brooding on Smallholder Chicken Productivity: An On-Farm Evaluation in Wakiso district; 2004-2005
- 27.** Swedish Development Agency (Sida/SAREC) - Exploration of Honey, Wax and Propolis Productivity in Central Uganda; 2004-2005
- 28.** Swedish Development Agency (Sida/SAREC) - Weaning Strategies for Improving the Performance of Sows and Their Progenies under Smallholder Conditions; 2004-2005
- 29.** NORAD - Genetic Polymorphism, Pedigree Relationships and Selection Criteria of Ankole Cattle Populations of Uganda; 2003-2008

30. DANIDA-ENRECA - Studies on Phenotypic Response to Population Screening Criteria of Indigenous Meat Goats in the Field in Uganda; 1998-2001

#### Research groups and Centres

Africa Native Chickens Research Group (NativeChickens) <https://www.nativechicken.org/>

Optimised African Cattle Ecosystems Research (OPTIBOV) [https://leap-agri.com/?page\\_id=291](https://leap-agri.com/?page_id=291) ;

Africa Society of Animal Production (AASAP), <https://faraafrica.community/fara-net/aasap-aacaa7/join>

African Animal Breeding Network (AABNet) <https://www.ctlgh.org/the-african-animal-breeding-network-aabnet/>

Domestic Animal Diversity Network - DAD-Net <https://dgroups.org/fao/dad-net>

Entomological Association of Uganda (EAU)

The Uganda National Apiary Development Organisation (TUNADO) <http://tunadobees.org/>

#### Community based work

1. Pig artificial insemination program that serves pig farmers in Uganda, Rwanda and Kenya. Over 10,000 pigs have been inseminated since 2001 with astounding results.
2. Radio Talk Show Presenter, Piggery and other livestock enterprises, Central Broadcasting Services, Mega FM (2010-present)
3. Trainer and Advisor for farmers of goats, cattle, pigs, chickens, and honey bees: Farmers are either hosted individually at my office or are visited at their farms. In several cases, farmers organize themselves into groups and are trained at their preferred locations. Such group trainings have been conducted in over 60 districts of Uganda (2000-present)
4. Masindi Avocado Farmers' Cooperative Society Limited.
5. Ambassador, Makerere University Retirement Benefits Scheme (MURBS): Participate in activities of the retirement benefits scheme; 2018-present
6. Coordinator, Makerere University/Iowa State University Service-Learning Program, (2010-present)

#### Awards or special recognitions received

1. **Certificate of Recognition**, Facilitator for the Research Writing in the Sciences 6-week International Course by AuthorAID-INASP (2021)
2. Recognition Plaque for **Outstanding Contribution** to Development of Animal Genetic Resources CIM tool for Africa, African Union Commission (2019)
3. Evidence-informed Policymaking Seminar Fellowship, European Commission (2018)
4. Australia Africa Universities Network and Australia Africa Award Fellowship (2018)
5. Visiting Scientist, Iowa State University, College of Agric. and Life Sciences (2017)
6. Inducted as a Fellow of the Uganda National Academy of Sciences (UNAS) (2017)
7. **Best Alumna Award**, Australia Africa Awards Short-Course on Increasing the Development Impact of Agricultural Research (IDIAR) (2017)
8. International Congress Hidden Hunger Fellowship, University of Hohenheim (2015)
9. *Africa-wide Young Professionals in Science Award* (by CTA, FARA, IFS, RUFORUM, ANAFE, NEPAD & AGRA R4D Consortium) (2013)
10. Visiting Scientist, Iowa State University, College of Agric. and Life Sciences (2013)

11. Young Affiliate Nominee, Academy of Sciences for the Developing World (2012)
12. **Best Exhibitor Award** (Institutions Category), National Agricultural Show (2010)
13. International Atomic Energy Agency (IAEA) Fellowship (2004)

## Publications

1. **Kugonza, D.R. 2022.** Bee Keeping: Theory and Practice (**2<sup>nd</sup> Edition**). Fountain Publishers, Kampala. 461 pages. ISBN: 978-9970-02-965-5.
2. Beyihayo, G.A, Ndyomugenyi, E.K., Echodu, R. and **Kugonza, D.R.** 2022. *In-situ* morphological characterization of indigenous chicken Ecotypes in Uganda. *Ecological Genetics and Genomics* 24(2022) 100129; <https://www.sciencedirect.com/science/article/abs/pii/S2405985422000180>
3. Burikukiye, J.M., Ntahonshikira, C., Biryomumaisho, S. and **Kugonza, D.R.** 2022. Major health problems of the Boer goats introduced in Bugenyuzi agriculture and livestock research center, Karusi Province of Burundi. *Journal of Veterinary Research Advances*, 4(1): 09-12. <https://jvra.org.in/archive/major-health-problems-of-the-boer-goats-introduced-in-bugenyuzi-agriculture-and-livestock-research-center-karusi-province-of-burundi>
4. Burikukiye, J.M., Ntahonshikira, C., Biryomumaisho, S. and **Kugonza, D.R.** 2022. Characteristics of smallholder goat production systems and effect of Boer crossbreeding on body measurements of goats in Burundi. *Int. Journal of Novel Res. & Dev.* 7(6): 905-916.
5. Murera, A., Marco, V. and **Kugonza, D.R.** 2021. Assessment of the adoption of recommended fishing practices of *Limnothrissa miodon* (Tanganyika sardine) in Lake Kivu. *International Journal of Fisheries and Aquaculture* 13(1): 1-14. doi.org/10.5897/IJFA2019.0753; <https://academicjournals.org/journal/IJFA/article-full-text-pdf/2A5A2DC66232>
6. **Kugonza, D.R.** 2020. Africa under attack: a continent-wide mapping of pathogens, parasites and predators afflicting the hived honey bee *Apis mellifera* L. (Hymenoptera: Apidae). *African Journal of Rural Development* 5(2): 1-27.
7. **Kugonza, D.R.**, Kayitesi, A., Nakkazi, C., Okot, M.W. and Mulindwa, H. Local chicken production in Uganda: Breeding practices and flock productivity. In: Mensah, S., Tusiime, G and Adipala, E. (Eds.). *RUFORUM Working Document Series*, No. 18.
8. **Kugonza, D.R.**, Kayitesi, A., Nakkazi, C., Okot, M.W. and Mulindwa, H. Performance of Kuroiler and local Ugandan chickens reared under extensive and intensive management systems: Carcass and Meat traits). *RUFORUM Working Document Series*, No. 18.
9. Dos Anjos, F., **Kugonza, D.R.**, Okot, M.W., Costa, R. and Okello, D. Marker-assisted breeding of selected native chickens in Mozambique and Uganda. In: Mensah, S., Tusiime, G and Adipala, E. (Eds.). *RUFORUM Working Document Series*, No. 18.
10. Yussif, I., Annor, S.Y., Amidu, B. and **Kugonza, D.R.** Lemon grass (*Cymbopogon citratus*) as a herbal feed additive to improve productive performance of rabbits (*Oryctolagus cuniculus*). In: Mensah, S., Tusiime, G and Adipala, E. (Eds.). *RUFORUM Working Document Series*, No. 18.
11. Hirwa, C.D., **Kugonza, D.R.**, Kayitesi, A., Murekezi, T., Semahoro, F., Uwimana, G. and Habimana, R. 2019. Phenotypes, production systems and reproductive performance of indigenous chickens in contemporary Rwanda. *International Journal of Livestock Production*, 10(10): 213–231. doi.org/10.5897/IJLP2019.0618
12. Elbeltagy, A., Bertolini, F., Fleming, D.S., Van Goor, A., Ashwell, C.M., Schmidt, C.J., **Kugonza, D.R.**, Lamont, S.J. & Rothschild, M.F. 2019. Natural selection footprints among African chicken breeds and village ecotypes. *Frontiers in*

*Genetics*, 10:376. doi: 10.3389/fgene.2019.00376.

13. Aryemo, I.P., Akite, I., Kule, E.K., **Kugonza, D.R.**, Okot, M.W. & Mugonola, B. 2019. Drivers of commercialization: a case of indigenous chicken production in northern Uganda. *African Journal of Science, Technology, Innovation and Development*, 11(6): 739-748. doi:10.1080/20421338.2019.1573957.
14. Siya, A., Bazeyo, W., Tuhebwe, D., Tumwine, G., Ezama, A., Manirakiza, L., **Kugonza, D.R.** and Rwego, I.B. 2019. Lowland grazing and Marburg virus disease (MVD) outbreak in Kween district, Eastern Uganda. *BMC Public Health* 19: 136 doi.org/10.1186/s12889-019-6477-y.
15. **Kugonza, D.R.** 2018. Inyambo cattle and their critical roles: Royalty through inheritance but facing adversity. African Union – InterAfrican Bureau for Animal Resources, Nairobi, Kenya.
16. Kiyimba, F. & **Kugonza, D.R.** 2018. Effect of dietary protein level on growth, survival and feed utilization in Guinea fowl keets. *African Journal of Rural Development*, 3(2): 799–811.
17. Niyiragira, V., **Kugonza, D.R.** & Hirwa, C.D. 2018. Success drivers of pig artificial insemination based on imported fresh semen. *International Journal of Livestock Production*, 9(6): 102–107.
18. Onzima, R.B., Gizaw, S., **Kugonza, D.R.**, van Arendonk, J.A.M. & Kanis, E. 2018. Production systems, breeding objectives and farmer preferences for indigenous goat breeds in Uganda. *Small Ruminant Research*, 163: 51–59.
19. Lubandi, C., Lwasa, S., **Kugonza, D.R.**, Babigumira, B.M., Semahoro, F., Nadioppe, G. & Okot, M.W. 2018. Analysis of the indigenous chicken value chain in Uganda. *African Journal of Rural Development*, 3(3): 895–912.
20. Siya, A., **Kugonza, D.R.** & Muwanika, V. 2018. Commercialisation of alternative livestock feeds could save fish stocks in Lake Victoria. *African Journal of Tropical Hydrobiology and Fisheries*, 16: 48–50.
21. Akite, I., Kule, E., Mugonola, B., Aryemo, I.P., **Kugonza, D.R.** & Okot, M.W. 2018. Gender dimensions in the local chicken value chain in northern Uganda. *African Journal of Science, Technology, Innovation & Development*, 10: 367–380.
22. Bamundaga, G.K., Natumanya, R., **Kugonza, D.R.** & Owiny, D.O. 2018. Reproductive performance of single and double artificial insemination protocol in swine. *Bulletin of Animal Health and Production in Africa*, 66(1): 143-157.
23. Babigumira, B.M., Nabukalu, R.G., Masaba, J.K., Egadu, G.W., Mulindwa, E.H., Oluka, J. & **Kugonza, D.R.** 2018. Growth characteristics of Sahiwal x Zebu F1 crossbred cattle in Uganda. *International Journal of Livestock Research*, 8(6): 35–40.
24. Gorla, E., Bertolini, F., Strillacci, M.G., Cozzi, M.C., Roman-Ponce, S.I., Ruiz, F.J., Vega, V.V., Dematawewa, C.M.B., **Kugonza, D.R.**, Elbeltagy, A., Schmidt, C.J., Lamont, S.J., Bagnato, A., Rothschild, M.F. 2018. Genomic diversity using copy number variations in worldwide chicken populations. *International Journal of Animal Health & Animal Science Food Safety*, 5(1): 49–50.
25. Hirwa, C.D., **Kugonza, D.R.**, Amahoro, E., Ingabire, C., Niyiragira, V., Myambi, C., Manzi, M., Murekezi, T., Nyabinwa, P., Nshimiyimana, A.M., Kanyandekwe, C. & Gahakwa, D. 2017. Influence of breed, season and age on bovine semen used for artificial insemination. *International Journal of Livestock Production*, 8(6): 72–78.
26. Hirwa, C.D., **Kugonza, D.R.**, Murekezi, T., Rwemarika, J.D., Kayitesi, A., Musemakweri, A., Shabayiro, J.P., Shumbusho, F., Manzi, M. & Safari, T. 2017. Management and phenotypic features of indigenous cattle in Rwanda. *International Journal of Livestock Production*, 8(7): 95–112.



27. Elbeltagy, A., Bertolini, F., Fleming, D., Van Goor, A., Ashwell, C., Schmidt, C., **Kugonza, D.R.**, Lamont, S. & Rothschild, M. 2017. Evidence of natural selection footprints among some African chicken breeds and village ecotypes. *International Journal of Animal & Veterinary Sciences*, 11(8), urn:dai:10.1999/1307-6892/63529
28. Philipsson, J., Zonabend, E.K., Strandberg, E., Albiñ, A., Atkisson, A., Chagunda, M., Frid, G., **Kugonza, D.R.**, Okeyo, M., Ojango, J. & Peters, K.J. 2017. Sustainable agricultural production and food security: use of livestock resources for food security in the light of climate change. Swedish International Agricultural Network Initiative (Siani) and SLU Global. Uppsala, Sweden. 4 pp.
29. Ojango, J.M.K., Mrode, R., Okeyo, A.M., Rege, J.E.O., Chagunda, M.G.G. & **Kugonza, D.R.** 2017. Improving Smallholder Dairy Farming in Africa. In: Belzen, N. Van. 2017. *Achieving Sustainable Production of Milk Vol. 2: Safety, quality and sustainability*. Cambridge, UK: Burleigh Dodds Science Publishing Limited, 1–26, <http://dx.doi.org/10.19103/AS.2016.0005.38>. (Book Chapter 38).
30. **Kugonza, D.R.**, Hirwa, C.A., Rwemalika, D., Mayigane, L.N., Safari, S., Kayitesi, A. & Gahakwa, D. 2017. Kuroiler chickens: A new chicken ecotype for Rwanda, its growth and survival performance under restricted range conditions. (Chapter 3.10) In: Gaidashova, S., Kagabo, D. and Gahakwa, D. (Eds), *Confronting the challenges of food insecurity in the era of climate change and variability*. CABI, UK, 288-294.
31. **Kugonza, D.R.**, Lubandi, C., Kirembe, G., Taabu, H.L., Mugala, L.K. & Lusembo, P. 2017. Enhancing pig productivity in Lake Victoria crescent zone through genotype and post-weaning diet interventions. (Chapter 3.9) In: Gaidashova, S., Kagabo, D. and Gahakwa, D. (Eds), *Confronting the challenges of food insecurity in the era of climate change and variability*. CABI, UK, 277-287.
32. Hirwa, C.D., **Kugonza, D.R.**, Wallace, P., Manzi, M., Murekezi, T., Nyabinwa, P., Semahoro, F., Rwemalika, D., Nshimiyimana, A.M. & Gahakwa, D. 2017. Efficacy of progesterone releasing intra-vaginal device (PRID) in pure Ankole cattle and crossbreds with three exotic breeds. (Chapter 1.15) In: Gaidashova, S., Kagabo, D. and Gahakwa, D. (Eds), *Confronting the challenges of food insecurity in the era of climate change and variability*. CABI, UK, 123-128.
33. Mwiza, W.K., **Kugonza, D.R.** & Mutimura, M. 2017. Growth performance of *Cavia porcellus* (Guinea pig) under intensive feeding regime. (Chapter 1.19) In: Gaidashova, S., Kagabo, D. and Gahakwa, D. (Eds), *Confronting the challenges of food insecurity in the era of climate change and variability*. CABI, UK, 148-153.
34. Ntirugulirwa, B., Gakwerere, E., Mwiza, W.K. & **Kugonza, D.R.** 2017. Comparative yield of honey for two locations in Ruhunde arboretum across twelve months. (Chapter 1.22) In: Gaidashova, S., Kagabo, D. and Gahakwa, D. (Eds), *Confronting the challenges of food insecurity in the era of climate change and variability*. CABI, UK, 172-176.
35. Namayanja, D., Akol, A.M. & **Kugonza, D.R.** 2016. Prevalence of *Varroa* mite infestations among honey bee colonies in Uganda. *RUFORUM Working Document Series*, 14(2): 459–465.
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## Videos

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