



College of Veterinary Medicine, Animal Resources and
Biosecurity
(CoVAB)



Annual Report 2022

28th March 2022

VISION

Healthier, Wealthier and Safer societies through animal value

MISSION

To drive transformative knowledge, skills, innovations and services for the continuous improvement of society

CORE VALUES

Accountability

Professionalism

Inclusivity

Integrity

Respect

ACCRONYMS

ADIS	-	Animal Disease Information System
AFRISA	-	Africa Institute for Strategic Services and Development
BBS	-	Department of Biomolecular Resources & Biolab
BDS	-	Department of Biotechnical & Diagnostic Sciences
BEP	-	Department of Biosecurity Ecosystems & Veterinary Public Health
CIRAD	-	French Agricultural Research Centre for International Development
COHESA	-	Capacitating One Health in Eastern and Southern Africa
CoVAB	-	College of Veterinary Medicine, Animal Resources and Biosecurity
GoU	-	Government of Uganda
ILRI	-	International Livestock Research Institute
ISAAA	-	International Service for the Acquisition of Agri-biotech
ITE	-	Industrial Training and Education
LIR	-	Livestock and Industrial Resources
MAAIF	-	Ministry of Agriculture Animal Resources and Fisheries
Mak	-	Makerere University
MOES	-	Ministry of Education and Sports Partnerships Platform
PCM	-	Veterinary Pharmacy, Clinical & Comparative Medicine
PI	-	Principal Investigator
SBLS	-	School of Biotechnical and Bio Laboratory Sciences
SME	-	Small and Medium Enterprise
SVAR	-	School of Veterinary Medicine and Animal Resources
WAAR	-	Department of Wildlife & Aquatic Animal Resources
WARM	-	Wildlife and Aquatic Resources Management

A WORD FROM THE PRINCIPAL

It is a pleasure for me to present to you highlights of the achievements and milestones that the College of Veterinary Medicine, Animal Resources and Bio Security realized over the year 2022. The report covers what we were able to do based on the targets set out in the strategic plan amidst the challenges.

The past year in my view was both an exhilarating and challenging time for the new Administration at the College. As we slowly recover from the effects of Covid 19, as leaders we still faced a number of issues and unprecedented scenarios that needed quick action and innovativeness as well as changes in the way we usually handle the teaching and learning.

The year 2022 the College continued to mark the 50-year milestone in the teaching and learning on the Veterinary Sciences and the year-long celebration of achievements fits in well with the Mak@100 mark of excellence of Makerere University that has only been concluded recently. There are many lessons to learn and yet there is a lot that is needed to steer the College to even greater heights.

This report gives some highlights of the tremendous achievements realized in the delivery of services responsive to the needs of our clients. The formal hand over of the Dairy project at Nakyesasa by the Koreans is worth mentioning. The center is an addition to the existing training facilities for the Veterinary students and the communities.

The College attracted a number of research grants that enhanced the practical teaching and learning experience at the college for both staff and students. Staff and students were able to reach out to the communities in need in the application of the skills and knowledge acquired through a number of studies and this made our presence felt among the communities for whom we exist.

I take this opportunity to appreciate the Government of Uganda and the University Administration for creating an enabling environment despite the challenges faced in the day to day running of the Institution. The contribution of our development partners is also recognized given that through such support, the college has achieved a number of milestones. I wish to congratulate all staff who through collective responsibility, have contributed towards steering CoVAB.

I take cognizance of the lessons learnt along the way and these will be some of the basis that will guide the course of implementation of the College mandate in the coming period.

Prof. Frank Nobert Mwiine.

PRINCIPAL

1.0. INTRODUCTION AND BACKGROUND

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1.1. Introduction

The College of Veterinary Medicine, Animal Resources and Bio Security (CoVAB) was constituted in the year 1971 as a faculty of Veterinary Medicine and has therefore been operational over the last 50 years. It has grown from a faculty to a college having 2 schools i.e., The School of Veterinary Medicine & Animal Resources (SVAR), and the School of Biotechnical and Bio Laboratory Sciences (SBLS). COVAB is a Constituent College of Makerere University as provided for in Section 29 of the Universities and Other Tertiary Institutions Act as amended in 2006.

1.2. Mandate

This falls within the overall mandate of Makerere University namely;

- a) Provision of higher education through teaching and learning, research and knowledge transfer partnerships in Engineering, Design, Art and Technology;
- b) Dissemination of knowledge and giving opportunity of acquiring higher education to all persons regardless of sex, race, color or whether one has a disability or not.
- c) Provision of accessible physical facilities to the users of the Public University

1.3. CoVAB structure and Administration

The College Board is the policy making organ of CoVAB. This is comprised of the Academic staff and the College Registrar serves as secretariat. The principal is the executive head of the Board and Professor Norbert Frank Mwiine is the current Principal, deputized by Prof. James Acai-Okwee.



The College welcoming incoming Deputy Principal Prof. James Acai - Okwee with cake cutting

The Board works closely with other bodies that include the Administrative Board that coordinates the day-to-day administration function of the College. Students are represented on all the boards as a way of ensuring their concerns are not left out. There are a number of other committees whose function feed into the operations of the boards and these include the contracts committee, the internship committee, and the finance committee among others.

1.4. Schools, Departments and administrative offices

COVAB is made up of Two (2) schools that are headed by Deans. These are the School of Veterinary Medicine and Animal Resources (SVAR) and the School of Biotechnical and Bio Laboratory Sciences (SBLS). These are charged with taking leadership in areas of programming, coordination and management of the respective units that are lined up according to the disciplines.

1.4.1 School of Veterinary Medicine and Animal Resources (SVAR)

The School of Veterinary medicine and Animal Resources is headed by Prof. Robert Tweyongyere, and is comprised of 3 departments which include Livestock and Industrial Resources (LIR) headed by Assoc. Prof. Lawrence Mugisha, Veterinary Pharmacy, Clinical and Comparative Medicine headed by Professor Julius Okuni and Wildlife and Aquatic Animal Resources (WAAR) headed by Dr. Sarah Nalule.

1.4.2. School of Biotechnical and Bio Laboratory Sciences (SBLs)

The Dean of the School is Dr. Claire M. Mugasa. This school is made up of 3 departments including Biomolecular Resources and Biolab (BBS) Sciences headed by Dr. Immaculate Nakalembe, Biosecurity, Ecosystems and Veterinary Public Health (BEP) headed by Prof. Clovice Kankya and Biotechnical and Diagnostic sciences headed by Dr. Joseph Erume.

1.4.1.3 African Institute for Strategic Animal Resource Services and Development

The AFRISA-SPEDA initiative came about as a result of the presidential directives of the 2th July 2007, under which Makerere University was directed to design innovations that would appropriate prosperity and address the challenges of perpetual peasantry and youth unemployment.

A semi-autonomous institute called AFRISA was established as a secretariat to coordinate the development and implementation of SPEDA model. A business incubation and skilling center was also initiated at Nakyesasa near Namulonge 20km from Kampala to provide the necessary infrastructure for effective delivery of SPEDA programs.

1.5. Institute and Centers

COVAB has one (1) Institute and seven (6) centers. The Table below shows the centers and their areas of focus.

Name of Institute/Centre	Area of focus	Target Group
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Africa Institute for strategic Resource services and development (AFRISA)	Comprehensive industrial value chain Education and cottage enterprises development	Academia Community Public Private Partnerships
Ruth Keesling wildlife health Extension, research and Education	Strategic wildlife innovations	Wildlife community
Centre for Biosecurity, Zoonoses and Food Safety.	Bio-risks and bio-threats	Community
Joint National Animal Diagnostics Centre(J-NADIC)	Diagnostic Extension Services. Ticks and tick-borne diseases	Farmers Community private sector Learners Researchers
Walter Reed Project Laboratories for Emerging Infectious Diseases	Avian Influenza	Community Researchers
Nakyesasa Incubation Centre for Industrial Livestock Research and business Innovations, Wakiso District	Industrial Livestock	Community Farmers Researchers
Buyana Stock Farm, Mpigi District	Field practical Teaching and Learning	Farmers Learners Researchers
Ngoma Anti-Tick Vaccine Clinical trial site, Nakaseke District	Anti-Tick Vaccine Clinical trial site	Researchers

1.6. Prof. Frank Norbert Mwiine assumes office of chairperson AFRISA Board of Directors

The Principal College of Veterinary Medicine, Animal resources and Biosecurity (COVAB), Prof. Norbert Frank Mwiine assumed to the position of Chairperson Africa Institute for Strategic Services and Development (AFRISA) Board of Directors following the handover by the outgoing Chair Prof. John David Kabasa.

The handover was held on Thursday 15th September 2022, in the Rotary Peace Centre at Frank Kalimuzo Central Teaching facility. It was witnessed by a number of key stakeholders that included the Board members and members of the University management.



AFRISA Board of Directors Incoming Chairperson, Prof. Frank Norbert Mwiine (middle) together with the outgoing Chairperson, Prof. John David Kabasa (3rd R) pose for a photo with the Institute's Board Members and Makerere University's Legal Officers during the handover ceremony

In his remarks as incoming Board Chairperson, Prof. Mwiine commended his predecessor Prof. John David Kabasa for ensuring that knowledge was transferred from shelves to communities through industrial skilling.



AFRISA Board of Directors Incoming Chairperson, Prof. Frank Norbert Mwiine (L) together with the outgoing Chairperson, Prof. John David Kabasa (R) during the handover ceremony, looking on is Ag. DLA, Mr. Hudson Musoke

He explained that as provided by AFRISA Articles of Association, the Principal for the College of Veterinary Medicine, Animal Resources and Biosecurity (CoVAB) is the Chairperson of the Institute's Board of Directors, and hence his assumption to the office.

In his handover remarks, Prof. John David Kabasa who is also the Principal Innovations Director in AFRISA gave a background of the Institute and the journey it went through in building industrial communities. AFRISA initiative, he said, came about as a result of directives by His Excellency the President of the Republic of Uganda for Makerere University to design innovations that would appropriate Prosperity-For-All agenda and address the burgeoning challenge of perpetual poverty, peasantry and youth unemployment, and was approved by Makerere University Council in March 2010. AFRISA is a Not-for-Profit, semi-autonomous, Academic-Community-Public-Private Partnership (ACP3) engagement platform; guaranteed by the Makerere University Council. It is an innovation institution that advances industrial value chain and development education in Africa by using the SPEDA (Skills Production

Enterprise Development and accreditation) Model which links Education into Production and employment.

Some of the achievements he highlighted were that through the SPEDA Model, an advanced Diploma was established for skilling industrialists as well as Industrial Certificate Programs with over 3900 industrialists trained to date.

2.0 TEACHING AND LEARNING

2.0 TEACHING AND LEARNING

Teaching and Learning are the core function for which the College exists. A lot of effort therefore has been put in ensuring that the students admitted on the program get the best from us.

2.1 Programs offered at COVAB

The table below shows the various programs offered at the College.

School of Veterinary Medicine			
	Undergraduate	Graduate	
Program		Masters	Ph.D.
BVET	Bachelor of Veterinary Medicine		
MVM		Master of Veterinary Medicine	
BILB	Bachelor of Industrial Livestock and Business		
BAPT	Bachelor of Animal Production Technology and Management		
MSAH		MWHM) - Master of Science in Wildlife Health and Management with three tracks; i) Aquatic Health Management ii) Wildlife Resource Management	

		iii) Wildlife Clinical Medicine	
GLPM		Post graduate Diploma in Livestock Development Planning and Management	
MSLS		Master of Science in in Livestock Development and Management with two tracks; i) Livestock Sector Planning and Management ii) Animal Product Processing, Entrepreneurship and Safety	
MVPA		MSC in Veterinary Pathology	
PSVM			Doctor pf Philosophy
School of Biosecurity, Biotechnology and Laboratory Sciences			
BBLT	Bachelor of Biomedical Laboratory Technology		
MSBL		Master of Biomedical Laboratory Sciences and Management	
(MSBS)		- Master of Science in Molecular Biology	
MIDM		Master of Science in International Infectious Diseases Management	
MVPM		Master of Veterinary Preventive Medicine	

			Ph.D. Veterinary Medicine
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2.2. Skills development programs

AFRISA offers the following skilling programs to communities since its initiation in 2007.

- Bee Keeping, Products Development and Entrepreneurship
- Companion and recreation Animal Management and Training
- Dairy Production, Value Addition and Entrepreneurship
- Feed Production, Value Addition and Entrepreneurship
- Fish Production, Value Addition and Entrepreneurship
- Laboratory Science Education and Industrial Technology
- Leather Production, Value Addition and Entrepreneurship
- Meat Production, Value Addition and Entrepreneurship
- Pig Production, Value Addition and Entrepreneurship
- Poultry Production, Value Addition and Entrepreneurship
- Wildlife Production, Value Addition and Entrepreneurship

2.3. Postgraduate student enrollment 2022-2023

A total of 73 graduate students were admitted.

No.	Program		Male	Female	Total
	(MSLS) - Master of Science in Livestock Development & Management				15
	(MWHM) - Master of Science in Wildlife Health and Management				3

	(MVPM) - Master of Veterinary Preventive Medicine				12
	(MVMPF) - Master of Veterinary Medicine (Food Animal Health and Production)				5
	(MSBS) - Master of Science in Molecular Biology				15
	(MSBL) - Master of Biomedical Laboratory Sciences and Management				7
	(MIDM) - Master of Science in International Infectious Diseases Management				10
	(GLPM) - Postgraduate Diploma in Livestock Development Planning and Management				6

2.4. Undergraduate Student enrollment 2022

A total of 238 undergraduate students were admitted. Of these of 59 were on government scholarship while 179 students were on the Private scheme.

No.	Program	Male	Female	Total
1	Vet Medicine	39	24	63

2	BLT	66	48	114
3	BILB	25	11	36
4	WHM	05	04	09
5	BAP	11	05	16
		146	92	238

2.5. Library Services at CoVAB

The library is an important resource in the College. It offers resources both online and physical to support research by both staff and students. The College Library set out to undertake a number of tasks in the period under review and these are expounded below.

Strategic Objective 1: Ensure collection development and optimal utilization of information resources while producing quality graduates.

- **203** titles and **648** copies of books were identified
- **181** titles and **301** copies were ordered by book bank
- **20** titles and **80** copies of books received and accessioned,
- **390** print dissertations received and accessioned
- **4** print journals received and accessioned
- **9** titles about COVAB Training history photocopied from Africana during Silver Jubilee celebrations

Strategic Objective 2: Strengthen Information literacy trainings and Current awareness services for library collection.

- **32** library users taught on one-on-one basis,
- **1** user training carried out.

Strategic Objective 4: Strengthen the Virtual Digital Library Environment

- **2** ICT items procured (Hand held digital scan and branch laptop)

Strategic Objective 5: Strengthen Library Governance and Human Resources Management

- **28** meetings in the COVAB academic Board.

- **Several** meetings with the library strategic planning committee.
- **5** CPDs (including those from technical, digitization and e-resources units, FAO AGROVOC).

Strategic Objective 6: Mobilise and Maintain Resources for sustainable library services

- **2** institutional linkages participated with Michigan State University and Lilongwe University of Agriculture and Natural Resources (LUANAR)
- **1** grant submitted to AAP Transforming institutions

2.5. Graduation output in 2021



Makerere University held its 72nd Graduation Ceremony on Wednesday 17th May 2022 at the Freedom Square. The table below shows CoVAB's graduation statistics.

No.	PROGRAMMES	No. of graduands	
		F	M
1	Doctor of Philosophy	2	4
2	(MVPM) - Master of Veterinary Preventive Medicine	2	6
3	(MSBS) - Master of Science in Molecular Biology	6	14
4	MSBL) - Master of Biomedical Laboratory Sciences and Management	2	5
5	(MSLS) - Master of Science in Livestock Development & Management	1	5

6	(MIDM) - Master of Science in International Infectious Diseases Management	4	7
7	(MWHM) - Master of Science in Wildlife Health and Management	0	4
8	(MWTM) Masters in Wildlife Tourism and Recreation Management	2	1
9	(GLPM) - Postgraduate Diploma In Livestock Development Planning And Management	1	11
10	BAPT) - Bachelor of Animal Production Technology and Management	8	23
11	(BVET) - Bachelor of Veterinary Medicine	13	51
12	(BDIB) - Bachelor of Dairy Industry and Business	0	03
13	(BILB) - Bachelor of Industrial Livestock and Business	0	03
14	(BPIB) - Bachelor of Poultry Industry and Business	01	0
15	(BWHM) - Bachelor of Wildlife Health and Management	02	08
16	(BLSE) - Bachelor of Laboratory Science Education and Industry	00	03
17	(BBLT) - Bachelor of Biomedical Laboratory Technology	64	95
18	(DDIB) - Ordinary Diploma in Dairy Industry and Business	00	01
19	(DFIB) - Ordinary Diploma in Feed Industry and Business	00	01
20	(DLSE) - Ordinary Diploma in Laboratory Science Education and Industry	00	01
	TOTAL	108	246

2.5.1. The Best Bachelor of Veterinary Medicine receive an excellence award

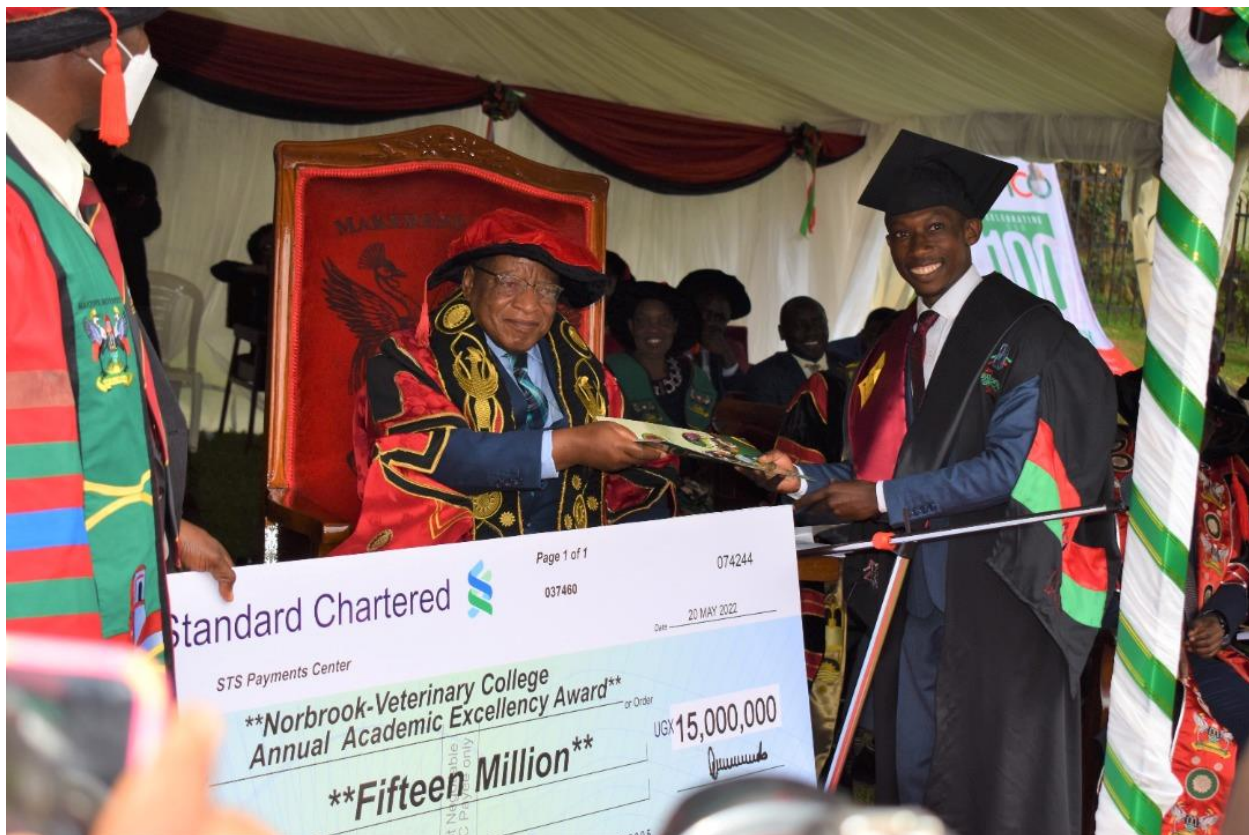


(L-R) Kyabarongo, Wafula Ivan and Ojangole David at the 72nd Graduation ceremony, May 2022

The best performing students in the Bachelor of Veterinary Medicine in the 2022 graduation are products of Universal Primary Education and Universal Secondary Education. The trio are all from humble beginnings and had to endure hardships like lack of school fees, walking long journeys to and from School. They credit their success to hard work, resilience and support from family, friends and well-wishers. They received a cash prize of Uganda Shillings Fifteen Million with the first getting 7 million, the second getting 5 million and 3 million for the third.



CoVAB staff and Staff from Norbrook and UVA pose with the awardees and their dummy check



David Ojangole receives a handshake from the Chancellor, inset is the dummy check



Mothers' joy! Third best is carried by Mother

Born in a family of 7, Wafula is a product of Universal Primary School (UPE). He studied at St. Jude Lucayan Primary School (2002-2009) where he obtained 8 aggregates. Thereafter he went to Wawa High School (2010-2013) similarly a Universal Secondary School (USE) school in Lucayan Town Council, Kalanga District where he obtained 16 aggregates at O level then joined St Stephen's college Baja (2014-2015) a local private school where he scored 16 points which enabled him join Makerere University on government sponsorship to study Bachelors of Veterinary medicine.

'Life has not been easy, because of poverty, challenges and difficulties were inevitable but with God on my side I finally made it. Glory to the Almighty', said the overjoyed student. I am looking forward to serve my country to the best of my abilities through my profession and advance in my studies, he promises.

2.6. A new PhD Program proposed to train critical thinkers to mitigate zoonotic disease outbreaks in global biosecurity and ecosystems health"



Participants in the Curriculum Development Stakeholders workshop for a Taught PhD Programme (GLOBECO) pose for a group photo at the Centre for Global Health, CoVAB, Makerere University on 4th November 2022.

On Friday, November 4th, 2022, the College of Veterinary Medicine, Animal Resources, and Biosecurity (CoVAB) held a stakeholder engagement to discuss the proposed Ph.D. in Global Security and Ecosystem Health (GLOBECO). An eight-member committee was formed to further consider the input of the stakeholders, which included representatives from the Curriculum Development Centre, the National Council for Higher Education, the College of Education and External Studies, the Ministry of Health, the Ministry of Agriculture, Animal Industry and Fisheries, the Ministry of Water and Environment, East Africa School of Library, the Office of the Prime Minister, and various departments from CoVAB.

According to Professor Clovice Kankya, Head of the Department of Biosecurity, Ecosystems and Veterinary Public Health at CoVAB, Makerere University, the idea for this unique Ph.D. program was born out of a need to address the ongoing epidemics of

zoonotic diseases such as Ebola, COVID-19, Rift Valley Fever, Anthrax, Brucellosis, and Tuberculosis. As a center for critical thinking, the university recognized the importance of training a high caliber of professionals to address emergencies in biosecurity.

The program is supported by the Norway Government through a NORHED II programme under the ***Climate Change and Infectious Diseases management, A one Health Approach (CIDIMOH project)***.

6 Masters and 6 PhDs and 2 postdocs will be supported as some of the expected outputs. Artic University of Norway (UiT), University of South Eastern Norway (USN), University of Bahr-EL-Ghazal (UBG) in South Sudan and Makerere University will coordinate the Project.

3.0. RESEARCH COLLABORATION, DISSEMINATION AND KNOWLEDGE TRANSFER

3.1. Researchers embark on Capacitating One Health in Eastern and Southern Africa (COHESA) Project in Uganda



Seated (Left to Right): Prof. Clovice Kankya, Dr. James Acai - Okwee , Rose Nakabugo from the Office of the Prime Minister and other key One Health stakeholders at the project launch on 7th December, 2022, CoVAB, Makerere University.

On 7th December 2022, CoVAB together with a consortium of partners, the International Livestock Research Institute (ILRI), the French Agricultural Research Centre for International Development (CIRAD) and International Service for the Acquisition of Agri-biotech (ISAAA) launched a new project titled; Capacitating One Health in Eastern and Southern Africa (COHESA) Project, funded by the European Union.

With funding from the European Union, it aims to create an inclusive research and innovation ecosystem in Eastern and Southern Africa that addresses health issues in humans, animals, and the environment using a One Health approach. The project was launched at a stakeholder meeting at Makerere University, with participation from government institutions such as the Ministry of Health and Kyambogo University, as well as the National One Health Platform. The Principal Investigator for the project in East Africa, Professor Clovice Kankya, emphasized the importance of cross-sectoral,

systems-wide approaches in addressing the interconnected threats to health that the world is currently facing.

3.2. Dissemination and stakeholder engagements on Paratuberculosis Research findings



The College of Veterinary Medicine, Animal Resources and Biosecurity conducted a dissemination and stakeholder consultation workshop following a successful completion of a research on Bovine Paratuberculosis. The study was conducted in partnership with the Universities of Gottingen and Leipzig, in Germany and other African partners from 2017 till now.

The dissemination workshop held Monday 26th September 2022 at Piato Restaurant in Kampala was also a forum where a number of stakeholders came together as one of the initial preparatory activities for the upcoming successor research to be conducted in the coming 5-year period.

According to CoVAB's Dr. Okuni Julius Boniface, one of the Principal Investigators, the forthcoming study was expanded to include the College of Health Sciences and would cover six countries including Germany's Leipzig University. 'Recently, this collaboration has been extended to involve Makerere College of Health Sciences (MakCHS) and now covers One Health issues including COVID-19 and Antimicrobial Resistance in Animals and Humans'', said Dr. Okuni while addressing the stakeholders that attended the meeting.

He said the meeting was convened to inform the stakeholders in the broader partnership about the broader objectives and to share the results for the collaboration spanning the last four years. The five-year Research on Anti-Microbial resistance and Neglected Tropical Diseases comes in following earlier interventions that included Molecular Evolution of MAP in Africa, the Africa Suitcase Lab project among others

3.3. Researchers utilize ICT to monitor & address Antimicrobial Use (AMU) & Antimicrobial Resistance (AMR) in Animals



Participants pose for a group photo at the close of the MAD-Tech-AMR Project Stakeholders' Engagement at the Biosecurity Centre, College of Veterinary Medicine, Animal Resources and Biosecurity (CoVAB), Makerere University on 28th October 2022.

A consortium of researchers from the College of Veterinary Medicine, Animal Resources and Biosecurity (CoVAB), the International Livestock Research Institute (ILRI) in Kenya, the University of Nairobi, and the Swedish University of Agricultural Sciences (SLU) on October 28th 2022 gathered at CoVAB to discuss the Management

of Animal Diseases and Antimicrobial use by Information and Communication Technology (ICT) to Control Antimicrobial Resistance (AMR) in East Africa (MAD-tech AMR project 2022-2024).

This project aims to demonstrate the efficacy of a framework for surveillance of antimicrobial usage, diseases that trigger antimicrobial usage, and perceived problems with antimicrobial resistance in East African poultry production systems, using ICT in conjunction with veterinary epidemiology and social science methods.

Participants, including farmers, agro vets, and policy makers, were trained on how to use the Animal Disease Information System (ADIS) and how to report disease or drug usage details through the system. Professor Lawrence Mugisha is the Principal Investigator at Makerere University for this project.

3.4. Declaration of intent to join Global Farm platform network and partnership



Hon. Monica Musenero Musanza, The Minister for Science, Technology and Innovation (Front 3rd Right) with stakeholders at the opening the symposium held from 2nd to 4th August 2022 at CoVAB, Makerere University.



Makerere University signed a Declaration of Intent to join the Global Farm Platform Network and Partnership. The main objective of this partnership is to establish a global academic network to promote farm research platforms for the optimization of ruminant livestock production, with the goal of contributing to food security, sustainability, and poverty alleviation.

The signing of the Declaration of Intent followed a three-day partnership symposium on Science, Technology, and Innovation (STI) that was held at the College of Veterinary Medicine, Animal Resources, and Bio Security (CoVAB) from August 2nd to 4th, 2022. The symposium, which was supported by the Worldwide Universities Network (WUN), brought together stakeholders from several institutions, including the University of Bristol (UK), Lilongwe University of Agriculture and Natural Resources (Malawi), University of Ghana, Busitema University, National Agricultural Research Organization (NARO), Africa Institute for Strategic Animal Resource Services and Development (AFRISA), and the host Makerere University. Overall, the partnership and symposium were successful in bringing together experts from various fields to discuss and strategize ways to improve ruminant livestock production and contribute to global food security.

3.5. Research Methodology fellowship Conducted at CoVAB

A training in Research Methods, Experimental Design and Data Analysis was held at CoVAB, organized under the auspices of the Carnegie African Diaspora Fellowship program. It brought together researchers, masters and Ph.D. students from varied backgrounds.



Participants take off time for a group photo during the training

Dr. Patrick Pithua, an alumnus of the College was commended for taking the initiative to come and give back to his alma mater through sharing experiences. The facilitators in the training were both home grown and from abroad who had a lot to share which would make the participants better researchers.

Dr. Lawrence Mugisha from CoVAB explained the essence of the fellowship. He explained their African scholars who live and work in the United States of America were given an opportunity to give back to their people in Africa. facilitators like Dr. Patrick Pithua, an Associate Professor in Epidemiology from Virginia, Marly Land College of Veterinary Medicine, Population Health Sciences came over to help nurture the next generation of researchers., sharing from their own experiences.

3.6. CoVAB's 2022 Summer School & International Boma



The College of Veterinary Medicine, Animal Resources and Bio security successfully completed the 2022 Summer school and the International Cultural Boma that was held on the Theme; ***Tropical Veterinary Medicine and One Health in Uganda: A need for partnership and collaboration for development.*** Students from the Mississippi State University, College of Veterinary Medicine, USA took part in a one-month summer school organized by the college.

Following the completion of the activity, a Boma which is a knowledge sharing and exchange session was convened at the College in partnership with AFROHUN Uganda on Friday 1st July 2022. It brought together students under the One health program as well as students from Mississippi State University USA.

This was a knowledge sharing opportunity where CoVAB, Mississippi State University and AFROHUN shared experiences and what was learnt in Tropical Veterinary Medicine as well as getting to know what happens outside the said sphere.



Prof. Stephen Reichley makes remarks during the Boma at CoVAB.

‘It is in the interest of sharing information to identify and address challenges that affect life’, said Prof. Okwee while extending his appreciation to Mississippi State University for the over ten-year relations it has had with the College. He said what started as a summer school grew into problem solving partnerships in research, training and community development.

The Team Leader from Mississippi University Prof. Stephen Reichley appreciated CoVAB for the lead role in organizing the one-month long Summer School that brought his students into contact with a new area with most of them being in Africa for the first time. He said the summer school was opening up opportunities for further collaboration in areas like student exchange programs as well as graduate research. It was a great experience for the students to move out of their area to the unknown and

that the exposure left lifelong imprint on the students' academic, practice and outlook towards life, he noted.



Summer school participants listen to other peoples' experiences.

In a presentation by Dr. Peninnah Nsamba, a Veterinarian and Virologist, it was explained that effort has been on to bring the one health concept to the fore front by showing students that it was not only their individual professions that mattered rather

a synergy was necessary for the needed balance and multi-sectoral approach in addressing community challenges. She highlighted some of the successes realized to date and these included bringing together students from various disciplines and colleges in Makerere and other Universities who through a didactic course commit to solve community challenges in a holistic approach.



Dr. Peninnah Nsamba makes her presentations on the One Health success story.

The Mississippi State University students that included Katie Ann Stanley, Brook Taylor Dominello and Jordan Leigh McCoy presented a report about their field experiences that took them into contact with various disciplines including Aquaculture and fisheries, conservation, the abattoirs, dairy production, the national parks, small animal clinics as well as agriculture.



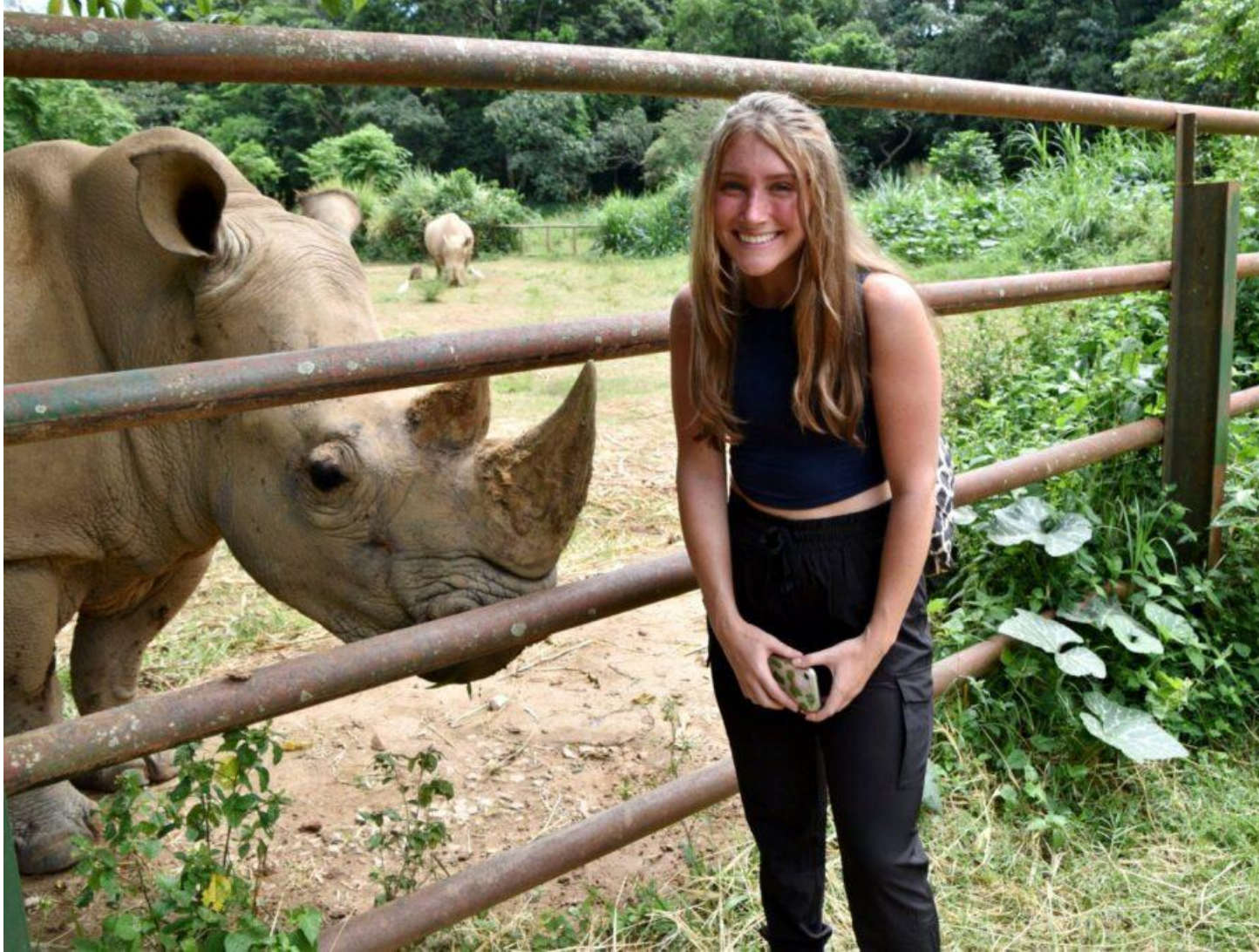
Mississippi State University Students on Summer School out in the field attending to kids.

Similarly, students in the 2021 AFROHUN cohort presented reports where they shared their field experiential learning. Using the one health concept that was developed to appreciate the interconnectedness of every sector, environment, human and animal, the students explained that the experiences helped them appreciate a lot of things and supported the host communities solve some of the identified and prioritized challenges. The areas visited included slaughter houses and the problems identified included lack of protective gear, people involved in self-medication and the associated

risk in microbial resistance. The other community challenge handled was sharing water sources by animals and humans in Pallisa and how the situation was addressed together with the community leadership.



Dr. Claire Mugasa, Dean SBLs (Right) hands over certificates to participants at the close of the Boma.



A Mississippi State University Student out in the field of wildlife conservation, just next to a rhino.

The International Cultural Boma as a concept in an African context means a meeting that allows learning and a two-way exchange of information between elders and youngsters. African culture involves the transfer of wisdom and knowledge from the wise, knowledgeable, and highly experienced elders to the young that are mentored into responsible community members. The concept was therefore used to allow opportunity to share knowledge from all stakeholders as experienced in the course of learning.

3.7. Climate Change and Infectious Diseases, A One Heal Approach project launched at CoVAB.

Makerere University College of Veterinary Medicine, Animal Resources and Bio Security (CoVAB), in collaboration with University of Tromsø (UiT) Norway, University of Bahr El Ghazal (UBG) South Sudan, and University of South Eastern Norway (USN) are set to implement the Climate Change and Infectious Diseases – A One Health Approach (CIDIMOH) project.

The six-year Project supported by the Norwegian Agency for Development Cooperation (NORAD) under the Norwegian Program for Capacity Building in Higher Education Research for Development (NORHED II) was launched on 13th June 2022 at the College.

One of the major outputs of the project will be the development of a critical mass of skilled human resource that will support the development of the innovative interventions in teaching and research for the future management of infectious diseases. A total of 6 multidisciplinary PhDs, and 6 Masters students will be supported by the project. Staff will also be offered opportunities for Post Doc research and there are plans to run diploma and short courses for varied professionals.

The project will also enhance sustainable and multi-disciplinary scientific networks across communities, institutions and countries. This will be done with the intention of addressing climate change and zoonotic diseases and promote strong community driven engagement strategies aimed at establishing a two-way understanding, communication and exchange of knowledge on the challenges and sustainable solutions to climate change and infectious diseases in Uganda and South Sudan.

The Vice Chancellor Makerere University, Prof. Barnabas Nawangwe who was represented by Deputy Vice Chancellor Finance and Administration Prof. Henry Alinaitwe officiated at the launch that was attended by representatives from the partner Universities. In his address, he commended the great contribution the project was making in the areas of capacity building and curriculum review.

Prof. Alinaitwe noted that the President of the Republic of Uganda was pertinent about the welfare of animals and that the University was looking forwards towards a successful implementation of the project as planned.

The Vice Chancellor further stressed the relevance of the project given the many diseases that were coming up due to changes in the ecosystem and hence the need to put in place measures to address them. He expressed the university's commitment to

support the project through close supervision as well as infrastructure for the staff and the students.

Dr. Clovice Kankya, Head of department of Biosecurity, Ecosystems and Veterinary Public Health at College of Veterinary Animal Resources and Biosecurity (CoVAB) said some of the major outputs of the project would be the establishment of a Center of excellence that will coordinate and provide solutions to climate change and zoonotic diseases management in the countries. He said effort will be made to ensure a community-driven platform that would help create awareness involving the youths, children and women in key hotspot areas in Uganda and South Sudan. The Community aspect he said, will also be key in implementing this fight through engagements, awareness programs, provision of documentation in form of brochures, books and others and sensitizing them on the dos and don'ts of controlling Zoonotic diseases.



Prof. Morten Tryland the Principal Investigator from The Arctic University of Norway revealed that the Norwegian government had donated 10 million Norwegian Kroner to run activities in the 6 years CIDIMOH project. He said the decision to collaborate with Makerere University and University of Bar El Ghazal was for purposes of combining expertise in infectious biology and social sciences to come up with one approach to this project. About small pox, Tryland mentioned that the disease directly falls into zoonotic

diseases (animal to human spread) and that it spreads through contact but can be avoided. He said it is identified when someone has skin rashes, fever then blisters on skin however gave hope that it can vaccinated against.

Prof. Ambrose Samuel Jubara, University of Barl El Ghazal, South Sudan noted that close to 85% of South Sudanese were illiterate and the majority pastoralists with little knowledge about zoonotic disease, this project would offer solutions to some of the challenges they face.

“South Sudan is a museum of zoonotic disease, animals and people can even reach the extent of dying before detecting that they are suffering from such diseases”. He noted. This project will help us create awareness, capacity building and devise possible means of countering these diseases from majorly our pastoral communities and the entire population of South Sudan, we are so optimistic that the 6 students on masters and PhD will be a magic bullet to end this.

Some of the student beneficiaries of this project James Muleme pursuing a Ph.D in Public Health from Makerere University school of Public Health under department of Disease Control and Environmental Health and Peter Michael Marin from University of Barl El Ghazal believed that at the end of the project, they would be able to provide explanations about the possible roots of resistant germs which will help their countries

3.8. Promoting Sustainability of Higher Education Through Global Collaboration, Student Program Development, Mobility and Training (EDUPROMO) Project

This is a mobility project funded by NORPART and coordinated at Norwegian University of Life Sciences (NMBU-VET). The southern partners are University of Zambia (UNZA), Mbeya University of Science and Technology (MUST), Institute of Marine Sciences (IMS) of the University of Dar es Salaam, and Makerere University (MAK). At Makerere University the project is housed at the Department of Biosecurity Ecosystems and Veterinary Public Health of Makerere University College of Veterinary Medicine Animal Resources and Biosecurity (CoVAB). The overarching aim of this project is to strengthen and further develop established PhD tracks/programs within One Health research and education focusing on zoonoses, toxicology, aquatic and environmental health. EDUPROMO will ensure the sustainability of established postgraduate courses and training at partner institutions in close collaboration with ongoing projects. EDUPROMO will build capacity at partner institutions including satellite and regional universities. EDUPROMO will facilitate mobility of staff and students. There will be South-South, North-South and South-North mobilities. Currently EDUPROMO has 6 PhD students on South-North mobility at NMBU-VET, two of them Collins Atuhaire and Lesley Ninsiima are from COVAB. The overall project PI is Associate Professor Mette Helen assisted by Assoc. Prof Ann Katrin. The PIs at partners Universities are COVAB Makerere, Dr Terence Odoch; UNZA, Professor Musso Munyeme; MUST, Dr Eliezer Mwakalapa and IMS, Dr Avitti Mmochi. The project will run from 2022 – 2026.



Dr. Terence Odoch, CoVAB EDUPROMO PI addressing an inception meeting at University of Zambia in Lusaka, Zambia, 3rd May 2022

3.9. The eRabies Project, UgandaBy Dr Terence Odoch (PhD)

The eRabies project, Uganda is funded by Swiss National Science Foundation (SNF). The project is coordinated at University of Zurich (UZH), Switzerland working in partnership with Makerere University College of Veterinary Medicine Animal Resources and Biosecurity (CoVAB), University of Berne (UB), Switzerland and Infectious Diseases Institute, Makerere University. The aim of the project is to contribute to elimination of dog-mediated rabies targeted by 2030. The overall project PI is Dr. Sonja Hartnack (UZH) and Project Research Advisor is Dr Clovice Kankya. The PIs for partner institutions are UB, Dr. Salome Durr; CoVAB, Dr. Terence Odoch (overall country project coordinator) and IDI, Dr Andrew Kambugu. Currently the project is funding two Ph.D. students (one each from Uganda and Switzerland) and two MSc students in Uganda. The project is running between 2022-2026.



Invited guests at the official launch of the eRabies project in Uganda, 7th March 2023 at CoVAB, Makerere University

3.10. Korea Rural Community Corporation Hands Over Dairy Technology Facility to Makerere University



Handover ceremony- Counsel Innocent Kihika represented the Deputy Speaker Rt. Hon. Thomas Tayebwa and Chairperson Council, Mrs. Lorna Magara (Seated Centre) flanked by the Korean Ambassador to Uganda, H.E. Park Sung-Soo (6th Right) and the Vice Chancellor, Prof. Barnabas Nawangwe (6th Left) and other officials at the KUDaP Dairy Demo Farm Launch, 25th August 2022, Nakyesasa Incubation Centre, CoVAB.

The Korea Rural Community Corporation (KRC) officially presented a facility to Makerere University on Thursday, August 25th, 2022, at Nakyesasa. The facility is aimed at improving the productivity of dairy farmers through support for dairy technology and infrastructure in Uganda. The facility, located at the Nakyesasa Incubation Centre within the College of Veterinary Medicine, Animal Resources and Biosecurity (CoVAB) at the National Crops Resources Research Institute (NaCRRI) in Namulonge, was implemented through the Korea Uganda Dairy Project (KUDaP). The ceremony was presided over by the Chairperson of the Appointments Board, Counsel Innocent Kihika, who represented the Deputy Speaker, Rt. Hon. Thomas Tayebwa, and the Chairperson of the Makerere University Council, Mrs. Lorna Magara."



Counsel Innocent Kihika (R) presents an appreciation award to Hon. KIM Byung-Soo (2nd R) as H.E. PARK Sung-Soo (2nd L), witnessed by the VC, Prof. Barnabas Nawangwe (L)

The facility was handed over to the Principal CoVAB, Prof. Frank Norbert Mwiine by the Vice President KRC, Hon. KIM Byung-Soo following a tour of the premises, where the investment in dairy technology and infrastructure was appreciated. Present were the Ambassador of the Republic of Korea to Uganda, H.E. PARK Sung-Soo, the Vice Chancellor, Prof. Barnabas Nawangwe, the Commissioner for Animal Health in the Ministry of Agriculture, Animal Industry and Fisheries (MAAIF), Dr. Anna Rose Ademun Okurut who represented the Permanent Secretary Maj. Gen. David Kasura Kyomukama.



Hon. KIM Byung-Soo (R) and Prof. Frank Norbert Mwiine (L) shake hands after exchanging signed documents after the handover of the KUDaP Dairy Demonstration Farm Facility at Nakyesasa.

3. 11. Makerere University to revamp Buyana Stock farm



The VC and the University management team together with the CoVAB leadership on a tour of Buyana Farm

Makerere University is committed to revamp Buyana stock farm to a level that is acceptable to facilitate the students practical learning experiences. This commitment was made following a tour of the facility by the Vice chancellor, Prof. Barnabas Nawangwe and his entourage comprised of the University secretary, Mr. Yusuf Kiranda, officials from the Estates and Works Directorate, the Dean of Students Ms. Winnifred Kabumbuli as well as staff from CoVAB.

‘I was involved in the design of the farm. Ownership is the reason as to why the farm was not well cared for’ said Prof. Nawangwe while addressing a meeting held at the farm that was also attended by the Principal, College of Veterinary Medicine, Animal Resources and Biosecurity (CoVAB) Prof. Frank Norbert Mwiine, his Deputy Dr. James Acai-Okwee and a number of heads of departments from the college.

Prof. Nawangwe said Buyana stock farm is located in the community and these expected the best out of the farm because it is owned by Makerere University. He asked

the respective offices responsible to come up with a massive plan for revitalizing Buyana as a model farm. The focus should be put on emergencies that included fencing off the land, working on the water supply system, and student accommodation.

The Principal, CoVAB Prof. Frank Norbert Mwiine said it was important that the College and the University as whole doubled efforts to ensure the farm gets back to acceptable levels. He announced that the college received over 5 square miles of land in Kiboga from H.E the President and stressed the importance of ensuring physical presence and utilization of the land to avoid losing University property.

Buyana stock farm continues to host Veterinary students who undertake practical sessions on the farm. Although originally planned for 29 students, the numbers have steadily increased to the current 80 that puts a strain on the facilities. The facility provides a good environment for practical training, revenue generation, outreaches to the communities as well as research.

According to Dr. Mathias Wasswa the farm manager, there were plans to improve the facility to become a center of excellence to undertake research, incubation and skilling as well as offer courses at certificate and diploma levels as well as offer ambulatory services to the surrounding community in the cattle corridor.

The meeting was also attended by the chairperson of the Buyana stock farm committee that was formed after the University handed over its management to the College, Dr. Julius Boniface Okuni, Prof. Robert Tweyongyere, Dean School of Veterinary Medicine and Animal Resources (SVAR), the Dean, School of Biotechnical and Bio Laboratory Sciences (SBLS) Dr. Claire M. Mugasa among other academic and administrative staff of the college.

4.0 Research Innovations and Technologies

COVAB is at the lead in as far as developing technologies is concerned by its nature and the kind of teaching and learning exposures offered. A number of innovations were unveiled in the period under review and they included the following;

COVID-19 BIOMARKER PROJECT'S INITIATIVE TO REDUCE ON COVID-19 PATIENT CROWDING IN HOSPITALS



The COVID-19 Bio-marker Project, with support from the Government of Uganda through the Presidential Scientific Initiative on Epidemics, conducted research on the different classes of COVID- 19 infections to reduce on the burden of patient crowds in hospitals. This research project sought for markers used in classification of COVID-19 infections and grouped the patients into; the controls, symptomatic, asymptomatic and severe based on their markers.

Under the leadership of Dr. Kato Charles Drago as Principal Investigator, the project was also intended to develop diagnostic kits to be used for early prediction of who was likely to become severe in infection. Given the fast spread of COVID- 19, health

facilities were becoming overwhelmed because of the large numbers of patients received daily amidst inadequate equipment. This research also discovered that some patients could be treated from home, and only visit health facilities once they became severe.

5.0. THE HUMAN RESOURCE FUNCTION

7.1. Academic Staff Career Development/Promotion

During the period under review, there were a number of Human resources related development in the College worth sharing with our stake holders.

7.1.1. Faculty Exchange Program 2022



College staff that benefited from the faculty exchange program

Five teaching staff at CoVAB participated in the staff exchange program in Universities in the United States of America where they gained useful experiences. The aim of the program was to build capacity in teaching and learning in veterinary medical education, acquire new knowledge and skills in animal welfare and establish networks that would assist improve the teaching of the courses taught.

Sylvia Nalubwama, BVM, MSc, Ph.D. Fellow from the Department of Livestock and Industrial Resources, School of Veterinary Medicine, and Animal Resources (SVAR) was placed at the College of Veterinary Medicine Iowa State University, USA from August to December 2022 with support from United States Department of Agriculture (USDA)

She is reported to be the only staff who has built capacity in teaching and research in organic agriculture, including publishing research work in peer-reviewed journals. She also coordinates and teaches 2 courses, Livestock production systems (LPS) and Organic livestock production offered to BVM and BAP students, as well as co teacher on other programs like the Master's program in livestock management development (MLD)

Dr. Nalubwama also supervises undergraduate research and conducts research and community outreach activities at CoVAB and therefore her experiences on the program will greatly support the already existing efforts in improving the teaching and learning experiences.

During her stay at the fellowship, Dr. Nalubwama was exposed to information on best practices in grant and manuscript writing, and possible grant agencies in and outside the US. She also observed and noted key aspects on lecturer- student teaching and learning engagement, both online and physical at CVM-ISU and interacted with the CANVAS E-learning platforms that provides students with the syllabus, modules, assignments, quizzes, grades, announcements, and a discussion platform. She also learned the concept of visible teaching and learning based on scientific evidence and appreciated the role of home, student, teacher, school, and curriculum in students' learning achievement.

While at the animal welfare students' club activity at ISU, Dr. Nalubwama shared a presentation on the status of animal welfare in Uganda and the efforts in championing animal welfare training and research at CoVAB. She shared opportunities for US student externships and Faculty collaboration with CoVAB and this provided visibility. At the Annual Animal Welfare Judging and Assessment Contest (AWJAC), at North Carolina State University 18th – 20th Nov 2022 that attracted 23 Universities from the United States and Canada.

The networks created following this event provided prospects for future collaboration in animal welfare research and education with the University of Texas and Iowa State University in the US and the University of Guelph and Ontario Veterinary College in Canada.

Some of the follow up activities following the fellowship according to Dr. Nalubwama is to connect the animal welfare students' club at CoVAB with other animal welfare students' clubs in the US, Canada, Kenya, and Tanzania for possible knowledge exchange, joint research, advocacy, and community outreach activities. In the area of curriculum review, a revised syllabus for livestock production systems was completed, and this will be presented to the curriculum review committee for proposed inclusion in the BVM curriculum.

In the day-to-day teaching and learning, the strategies learned will be implemented like utilizing some teaching aids like a projector, books, and others acquired through this fellowship as well as utilizing the teaching content/resources on the online platform for Day I Veterinary Education hosted by Iowa State University to which she has access.

7.2. Staff with new qualifications and other changes

Staff that acquired new qualifications	Dr. Stevens M. B. Kisaka	PhD in Tropical and Infectious Diseases, University of Nairobi, Kenya.
Transfers	Godfrey Makubuya (Human Resources Officer)	Transferred to CoVAB effective November 2022
Retired staff from service	Dr. Zachary Nsadha Ms. Rebecca Musisi	Lecturer retired effective 27 October 2022 Cleaner retired effective 25 October 2022

	Mr. Kabuunga Emmanuel	General Farm Worker retired effective 25 December 2022
	Ms. Rose Nabulega	Cleaner retired effective 1 November 2022

7.3. Academic Staff Establishment

The Table below shows a summary of the teaching staff by rank in the College.

Rank	Established	Filled	Male	Female
Professor	24	11	11	0
Associate Professor	30	11	10	1
Senior Lecturer	18	12	6	6
Lecturer	12	30	23	7
Assistant Lecturer	12	26	20	6
TOTAL	96	90	70	20

Name of Staff	Position
Frank Nobert Mwiine	Professor & Principal
Lubega George William	Professor
Kabasa John David	Professor
Ejobi Francis	Professor
Erume Joseph	Professor
Byarugaba K. Denis	Professor
Mugisha Anthony	Professor
Ocaido Micheal	Professor
Waiswa Charles	Professor
Okuni Julius Boniface	Associate Professor & HoD
Tweyongyere Robert	Associate Professor & Dean
Biryomumaisho Savino	Associate Professor
Acai-Okwee James	Associate Professor & Deputy Principal
Mugisha Lawrence & Ag. HoD	Associate Professor
Okello Sam	Associate Professor
Nizeyi John Bosco	Associate Professor
Kankya Clovice	Associate Professor & HoD
Majalija Samuel	Associate Professor

Nakavuma Jesca Lukanga	Associate Professor
Matovu Enock	Associate Professor
Nakalembe Immaculate	Senior Lecturer & HoD
Nyatia Edward	Senior Lecturer
Rwego Innocent	Senior Lecturer
Nalule Agnes Sarah	Senior lecturer & HoD
Kahwa David	Senior Lecturer
Nassuna Maria Goretti	Senior Lecturer
Azuba Rose	Senior Lecturer
Nanteza Ann	Senior Lecturer
Mugasa Claire Mack	Senior Lecturer & Dean
Baluka Sylvia Angubua	Senior Lecturer
Nampanzira Dorothy	Senior Lecturer
Muhanguzi Dennis	Lecturer
Nalubega Rebecca	Lecturer
Waiswa Peter	Lecturer
Namatovu Alice	Lecturer
Kazibwe Anne Nalunkuma	Lecturer
Magambo Philip Kimuda	Lecturer
Kokas Ikwap	Lecturer
Mayanja Maureen Nanziri	Lecturer
Odoch Terence Amoki	Lecturer
Nabukenya Immaculate	Lecturer
Mali Bob	Lecturer
Sente Celsus	Lecturer
Muhangi Denis	Lecturer
Naigaga Irene	Lecturer
Tamale Andrew	Lecturer
Kateregga John	Lecturer
Okech Samuel George	Lecturer
Vudriko Patrick	Lecturer
Wampande Eddie Mujwiga	Lecturer
Afayoa Mathias	Lecturer
Mutebi Francis	Lecturer
Mugizi Rwabita Denis	Lecturer
Kungu Joseph	Lecturer
Wamala Posiano Samuel	Lecturer
Mugimba K. Kizito	Lecturer
Kalule John Bosco	Lecturer

Amulen Deborah	Lecturer
Kisaka M.B. Stevens	Lecturer
Nsamba Peninah	Lecturer
Kato Charles Drago	Lecturer
Nyakarahuka Luke	Lecturer
Atuheire Collins	Assistant Lecturer
Tumwine Gabriel	Assistant Lecturer
Odongo Steven	Assistant Lecturer
Nuwamanya Ronald	Assistant Lecturer
Muzooru Saphan	Assistant Lecturer
Abigaba Rubaijaniza	Assistant Lecturer
Nasaka Joelia	Assistant Lecturer
Ssenfuma Robert	Assistant Lecturer
Amuno John Bosco	Assistant Lecturer
Sebulime Peregrine	Assistant Lecturer
Eneku Wilfred	Assistant Lecturer
Ssajjakambwe Paul	Assistant Lecturer
Agwai Benard	Assistant Lecturer
Kalibbala Patrick	Assistant Lecturer
Tayebwa Dickson	Assistant Lecturer
Nizeyimana Gerald	Assistant Lecturer
Ssuna Paul	Assistant Lecturer
Mawadri Patrick Abel	Assistant Lecturer
Byamukama Benedicto	Assistant Lecturer
Kisaka Joanne Kyozaire	Assistant Lecturer
Twinnamatsiko Robert	Assistant Lecturer
Nalubwama Sylvia	Assistant Lecturer
Kizza Daniel	Assistant Lecturer
Mukiibi Herbert	Assistant Lecturer

The Table below shows a summary of the Technicians by rank in the College.

<i>Rank</i>	<i>Established</i>	<i>Filled</i>		
			<i>Male</i>	<i>Female</i>
Chief Technician	6	6	4	2
Principal Technician	6	6	2	4
Senior Technician	18	0	1	0
Technician	18	4	3	1
Technical Assistant	12	4	2	2
Laboratory Assistant	12	3	1	2

TOTAL	72	23	12	11
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The table shows the position holders for Technicians

Position	Name of Office Holder	Sex
Nandera Stella Ann	Principal Technician	F
Ndawula Joseph	Principal Technician	M
Nambi Monica	Principal Technician	F
Abuo Martha	Principal Technician	F
Kesiime Christine	Principal Technician	F
Kisekka Magidu	Principal Technician	M
Musisi L. Nathan	Chief Technician	M
Nabulime Margaret	Chief Technician	F
Musisi L. Nathan	Chief Technician	M
Namirimu Solome	Chief Technician	F
Muyombya George William	Chief Technician	M
Musiis L. Nathan	Chief Technician	M
Tegule Sarah Syedde	Chief Technician	F
Kabasa William Microse	Chief Technician	M
Angwe Martin Kamilo	Senior Technician	M
Abade Beatrice	Technician	F
Situma Geoffrey	Technician	M
Nabutanda Juliet	Technical Assistant	F
Turyasingura Baker	Technical Assistant	M
Muhangazi Disan	Laboratory Assistant	M

The Table below shows a summary of the Clinicians by rank in the College.

Rank	Established	Filled		
			Male	Female
Chief Clinician	6	0	0	0
Principal Clinician	6	0	0	0
Senior Clinician	6	0	0	0
Clinician	6	1	1	0
Nurse	6	0	0	0
Nursing Assistant	6	0	0	0
TOTAL	30	1	1	0

The table shows the position holder for Clinician

	Position	Name of Office Holder	Sex
1.	Clinician	Semazzi Paul S.	M

7.3. Administrative and Support Staff

	Position	Name of Office Holder	Sex
1.	Principal	Prof. Norbert Frank Mwiine	M
2.	Deputy Principal	Assoc. Prof. James Acai -Okwee	M
3.	Accountant & College Bursar	Odoch Walter	M
4.	Accountant	Kalinaki Wilson	M
5.	Principal Comm. Officer	Musinguzi Harriet	F
6.	Human Resources Officer	Makubuya Godfrey	M
7.	College Librarian	Kasusse Michael	M
8.	Sen. Lib. Assistant	Nasuuna Lydia	F
9.	Librarian Assistant	Niwagaba Sylver Bamus	M
10.	College Registrar	Byarugaba Richard	M
11.	Senior Assistant Registrar	Mirembe Hellen	F
12.	Administrative Assistant	Mukasa Moses	M
13.	Web Administrator	Musinguzi Gerald Brooks	M
14.	Assist. Procurement Officer	Mawa Majid	M
15.	Clerical Officer	Tusabe Teddy Mugisa	F
16.	Administrative Assistant (Principal)	Tumukunde Monica	F
17.	Farm Manager (Buyana)	Wasswa Mathias Luboyera	M
18.	Farm Manager (KUDaP-Nakyesasa)	Atwijukire Benjamin	M
	Support Staff		
1	Administrative Sec II (Dean SVAR)	Asiimwe Resty	F
2	Copy Typist (Dean SBLS)	Nakalema Peggy	F
3	Cleaner /Messenger	Bbosa Tom	M
4	Cleaner/Messenger	Nakimuli Gladys	F
5	Cleaner	Kaddu Solomon	M
6	Driver	Matovu Isaac	M
7	Driver	Kiyemba Muhamed	M
8	Driver	Emengo Patrick	M
9	Driver	Kimuli Paul	M
10	Driver	Senyonga Andrew	M
11	Security Guard	Ahemigisa Robert	M
12	Security Guard	Owori Hudson	M
13	Chief Custodian	Ayer Joyce Sarah	F
14	Pool Stenographer (BBS)	Nabaggala Sarah Kaaya	F
15	Cleaner	Namutebi Rose Beatrice	F
16	Cleaner	Namusoke Harriet	F
17	Cleaner	Nakiganda Betty	F
18	Sanitary cleaner	Basajjansolo Ronald	M
19	Laboratory Attendant	Ataro Juliet Caroline	F

20	Cleaner	Nyirakezi Kevin	F
21	Cleaner	Katusabe Sauya	F
22	Cleaner	Okiria John Michael	M
23	Laboratory Attendant	Nankya Sarah	F
24	Sanitary cleaner	Kamuyati Batwaula	F
25	Sanitary cleaner	Nsubuga Tracy	F
26	Cleaner	Nakabugo Annet	F
27	Sanitary Cleaner	Nayiga Teopista	F
28	Cleaner	Tumwesige Annet Margaret	F
29	Sanitary Cleaner	Nabaale Mary	F
30	Animal Caretaker	Luwemba Geoffrey	M
31	Animal Caretaker	Ocen Stephen	M
32	Animal Caretaker	Sempiira Matia	M
33	Stockman	Asiimwe Brian	M
34	Grounds man	Atamu Julius	M
35	Sanitary Cleaner	Namutebi Madinah	F
36	Cleaner	Ndibalekera Juliet	F
37	Cleaner	Bikara Margaret	F
38	Cleaner	Ndagire Ruth	F
39	Cleaner	Akugizibwe Joselyn	F
40	Sanitary cleaner	Birungi Grace	F
41	Cleaner	Nakiyingi Sarah	F
42	Cleaner/Messenger	Kalemera John	M
43	Cleaner	Ariebe Annet	F
44	Tractor Driver	Olwe Dicken	M
45	General Farm Worker (Nakyesasa)	Charity Tomas	M
46	General Farm Worker (Nakyesasa)	Nansubuga Frances	F
47	General Farm Worker (Buyana)	Wasswa Edward Nyanzi	M
48	General Farm Worker (Buyana)	Muwonge Wilson	M
49	General Farm Worker (Buyana)	Mibuulo Gerald	M
50	General Farm Worker (Buyana)	Lutaaya James	M
51	General Farm Worker (Buyana)	Kigundu David	M
52	General Farm Worker (Buyana)	Settuba Fred	M

Accomplishments in 2022

- Performance appraisal was undertaken as expected and conducted online.
- The administrative function of the college is functional with limited capacity due to staffing gaps.

Challenges

- a) The College did not have a systems Administrator and this affected the performance of the college in terms of timely access to internet connectivity.
- b) The College did not have a Store Keeper and this affected the receipt and recording of goods. It also raised a number of audit queries.
- c) Non-recruitment of new Secretaries. A number of departments do not have secretaries.
- d) Non-replacement of support staff. A number of cleaners have retired without being replaced.

Recommendations

- a) The College should recruit an Administrative Assistant (HR), Systems Administrator, Store Keeper and Secretaries for the academic departments.
- b) The University should expedite the process of procuring a cleaning company for the College.
- c) University wide recruitment process should be shorted as units suffer due to staffing gaps overtime.

6.0. PUBLICATIONS

The List below shows some of the Publications by staff in the College in the year 2022.

1. Amugune, Billy & Matharu, Abneel & Ouma, Paul & Mutebi, Francis & Elson, Lynne & Fillinger, Ulrike & Krücken, Jürgen. (2022). Cost-Effective PCR-Based Identification of *Tunga penetrans* (Siphonaptera) Larvae Extracted from Soil Samples Containing PCR Inhibitor-Rich Material. *Insects*. 14. 5. 10.3390/insects14010005.
2. Anyuor, Samantha & Ayieko, M & Amulen, Deborah. (2022). Commercialization of Alate termites (*Macrotermes* sp.) to improve households' livelihoods in Vihiga county, Kenya. *African Journal of Food, Agriculture, Nutrition and Development*. 22. 19326-19338. 10.18697/ajfand.106.21085.
3. Asiimwe, Oscar & Wampande, Edward & Kinyi, Hellen & Extension, Kiu Publication. (2022). Assessment of the In Vivo Catalase Enzyme Activity and Anti-Obesity Effects of the Stem Bark Extract of *Erythrina abyssinica* on *Drosophila Melanogaster* Model of Diet Induced Obesity. 9. 17-33.
4. Atim, Priscilla & Meya, David & Gerlach, Elliot & Muhanguzi, Dennis & Male, Allan & Kanamwanji, Benedict & Nielsen, Kirsten. (2022). Lack of Association between Fluconazole Susceptibility and ERG11 Nucleotide Polymorphisms in *Cryptococcus neoformans* Clinical Isolates from Uganda. *Journal of Fungi*. 8. 508. 10.3390/jof8050508.
5. Atim, Stella & Ashraf, Shirin & Belij-Rammerstorfer, Sandra & Ademun, Anna & Vudriko, Patrick & Nakayiki, Teddy & Niebel, Marc & Shepherd, James & Balinandi, Stephen & Nakanjako, Gladys & Abaasa, Andrew & Johnson, Paul & Odongo, Steven & Esau, Martin & Bahati, Milton & Kaleebu, Pontiano & Lutwama, Julius & Masembe, Charles & Lambe, Teresa & Tweyongyere, Robert. (2022). Risk factors for Crimean-Congo Haemorrhagic Fever (CCHF) virus exposure in farming communities in Uganda. *Journal of Infection*. 85. 10.1016/j.jinf.2022.09.007.
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