



plus

Makerere University / UVRI Centre of Excellence
for Infection and Immunity
Research and Training

Progress Report 2019



Front page pictures, clockwise from top left:

Graduation Celebration: MUII-plus PhD fellows **Rose Nabatanzi, Moses Egesa, Nicholas Bbosa** at their graduation ceremony at Makerere University, January 2020. MUII-plus group leader and co-director, **Damalie Nakanjako** presiding over the graduation ceremony in her new role as Dean of School of Medicine, Makerere University School of Health Sciences.

Contents

Contents	3
Abbreviations	4
Summary	5
Acknowledgements.....	5
MUII-plus objectives.....	6
Aim 1. To promote Africa-relevant I&I scientific excellence [Scientific Quality].....	6
Aim 2. To provide career training for African I&I research leaders [Research Training]	6
Aim 3. To utilise and enhance the UVRI-Makerere I&I research environment [Management & Environment]:	6
Aim 4. Engage in outreach [Citizenship]:	6
Aim 1. Promote Africa-relevant I&I scientific excellence	7
1.1 Developing the MUII Centre of Excellence.....	7
1.2 Recognition	7
Aim 2. Provide career training for African I&I research leaders [Research Training]	7
2.1 Internships.....	7
2.2 Fellowships.....	8
2.3 Technical training	8
2.4 Mentorship and professional development.....	11
Aim 3. Utilise and enhance the UVRI-Makerere I&I research environment [Management & Environment].....	11
3.1 Research support.	11
3.2 Research infrastructure.....	12
3.3 MUII-plus specific management progress.....	13
Aim 4. Engage in outreach [Citizenship].....	13
4.1 Outreach in Science: MUII collaborative awards	13
4.2 Outreach in training	14
4.3 Outreach to the wider community and policy makers	14
Appendix 1. New grants reported by MUII Centre members and alumni: 2016-2019.....	15
Appendix 2. Publications by MUII Fellows, Alumni and Staff	23
Publications by MUII Fellows, Honorary Fellows, Alumni and Staff 2019	23
Appendix 3. MUII fellows, past and present	38

Abbreviations

AESA	Alliance for Accelerating Excellence in Science in Africa
AGM	Annual General Meeting
ASBCB	African Society for Bioinformatics and Computational Biology
BBC	British Broadcasting Corporation
BReCA	Nurturing Genomics and Bioinformatics Research Capacity in Africa
ChAd	Chimpanzee Adenovirus
CHIM	Controlled Human Infection Model
CKD	Chronic kidney disease
CHS	College of Health Sciences (Makerere)
CONAS	College of Health Sciences
COVAB	College of Veterinary Medicine, Animal Resources and Biosecurity (Makerere)
DELTAS Africa	Developing Excellence in Leadership, Training and Science Africa
DfID	Department for International Development
EANBiT	Eastern Africa Network for Bioinformatics Training
GWAS	Genome wide association study
IACUC	Institutional Animal Care and Use Committee
IDI	Infectious Diseases Institute
Impi	Implementation team (alluding to Zulu bands of warriors, impis)
IRB	Institutional Review Board
ISBC	International Society for Computational Biology
LSHTM	London School of Hygiene & Tropical Medicine
MNRH	Maternal, Neonatal and Reproductive Health
MRC	Medical Research Council
MUII-plus	Makerere University – Uganda Virus Research Institute Centre of Excellence for Infection and Immunity Research and Training
NCD	Non-communicable disease
PWD	People with disabilities
QC	Quality control
UMIC	Uganda Medical Informatics Centre
UVRI	Uganda Virus Research Institute

Summary

The Makerere University-Uganda Virus Research Institute (UVRI) programme on Infection & Immunity research (MUII) has been in existence for almost 12 years, training African scientists to harness laboratory and computational skills to address the continent's major health challenges. We have so far supported 64 fellowships: 50 fully MUII-funded (3 group leaders, 15 post-docs, 17 PhD fellows, and 15 Masters fellows) and 15 honorary fellows (10 PhD and 4 Masters fellows). Alumni include leading academics in human and veterinary medicine and research at UVRI and Makerere University.

This report focusses on achievements of MUII-plus in 2019.

Notable is the securing of new research funding: MUII-plus Centre members (PI, staff, alumni, fellows and honorary fellows) together contributed to securing approximately USD 7,351,042 in research funds in 2019, of which approximately USD 6,499,117 was won by MUII-plus fellows. MUII fellows, alumni and staff together have published 92 papers, of which 28 articles were specifically attributed to MUII-plus.

The MUII-plus training programme has continued to build career profiles of young bright students equipped with skills to work in different career paths. Two MUII-plus PhD fellows and three honorary PhD fellows graduated in 2019-2020. Four out of five strategic interns were awarded scholarships for Master studies. The fellowship programme is complemented by courses and workshops to provide specific skills, and to support professional development: eight courses and workshops have been held in 2019.

In research support, the COVAB Laboratory was officially handed over to the Dean of the School of Veterinary Medicine and Animal Resources and work there has commenced.

In outreach activities, our fellows participated in a number of community engagement activities including the first Annual Inter-University Biotechnology Symposium, at University of Kisubi, and at the Women in Science networking event.

Among special achievements, MUII-plus group leader Damalie Nakanjako was appointed Dean of the School of Medicine at the Makerere College of Health Sciences, as well as Co-director of MUII-plus! Dr John Kitayimbwa (MUII PhD and post-doc alumnus) was appointed deputy Vice Chancellor for Research at Uganda Christian University. The MUII success story video was uploaded on YouTube and on our website.

Acknowledgements

MUII-plus is supported through the DELTAS Africa Initiative (Developing Excellence in Leadership, Training and Science Africa; Grant no. 107743). The DELTAS Africa Initiative is an independent funding scheme of the African Academy of Sciences (AAS), Alliance for Accelerating Excellence in Science in Africa (AESA), and supported by the New Partnership for Africa's Development Planning and Coordinating Agency (NEPAD Agency) with funding from the Wellcome Trust (Grant no. 107743) and the UK Government.

Grants from the Royal Society, the European and Developing Countries Clinical Trials Partnership, the Wellcome Trust, the Bill and Melinda Gates Foundation, the National Institutes of Health of the United States of America (including the Fogarty foundation), the European Union, Grand Challenges Canada, the Royal Society of Tropical Medicine & Hygiene, the European Academy of Allergy and Clinical Immunology, the Makerere University Nurture Program, GlaxoSmithKline, the Alliance for Global Health and Science at the University of California, Berkeley, USA, the Wheeler Center for Emerging and Neglected Diseases, University of California, Berkeley, USA, the Open Philanthropy Project Fund (an advised fund of Silicon Valley Community Foundation, USA) and the United Kingdom's Medical Research Council also contribute to the achievements of the MUII Centre members.

We thank you for your support, and hope you will enjoy reading about our progress.

MUII-plus objectives

Our goal as the Makerere University – UVRI Centre of Excellence for Infection and Immunity research and training (MUII-plus) is to drive Africa-relevant Infection and Immunity (I&I) science in Uganda by bringing together scientists from the foremost health research institute (the Uganda Virus Research Institute, UVRI), and foremost university (Makerere), with their world-class, external collaborators, to support excellence in I&I research and training.

Our “Vision 2040” is Africa leading advances in Infection and Immunity research, with transformative impact on African health.

Our specific aims align with DELTAS Africa’s strategy [shown in square brackets]. MUII-plus aims, as set out in our proposal, are as follows.

Aim 1. To promote Africa-relevant I&I scientific excellence [*Scientific Quality*].

Transitioning from the MUII training programme, the MUII-plus Centre of Excellence will comprise senior Ugandan I&I scientists and young, emerging leaders, their research groups, trainees, and international collaborators: a mutually-supportive platform for world-class Africa-relevant science and training.

Aim 2. To provide career training for African I&I research leaders [*Research Training*]

Strategies include

- Career-pathway fellowships: Uganda-based, with international collaboration and co-supervision
- Focus on bioinformatics: ring-fenced bioinformatic fellowships and project grants; short courses integrated with partner-network opportunities
- Focus on emerging & re-emerging infectious diseases: ring-fenced PhD opportunities at College of Veterinary Medicine, Animal Resources and Biosecurity (COVAB)
- Improved efficiency and quality in I&I Masters training: coordination of courses across Makerere colleges; expert input from Uganda partners, and video-conferencing from Cambridge
- Professional development and citizenship: mentored leadership experience; curriculum of workshops
- Planning for sustainability and succession

Aim 3. To utilise and enhance the UVRI-Makerere I&I research environment [*Management & Environment*]:

- Drive research in new laboratories developed during phase 1 (MUII-1), in new COVAB Biosecurity laboratories, in the MRC-funded Uganda Medical Informatics Centre
- Strengthen research support at lead institution, UVRI

Aim 4. Engage in outreach [*Citizenship*]:

Develop communication skills; raise public awareness, network scientists and trainees, share resources and research findings, interact with policy makers, promote research implementation.

Aim 1. Promote Africa-relevant I&I scientific excellence

1.1 Developing the MUII Centre of Excellence

MUII-plus has continued to attract like minds to fostering collaborations and networks of Uganda's best scientists in the infection immunity unity research. Our centre membership now stands at 105 Ugandan based members and international partners.

MUII AGM and Symposium. We held another successful and colourful AGM and symposium in Feb 2019 in Entebbe. The meeting focussed on how basic science research can contribute to the SDG: we were fortunate to have the WHO representative to Uganda, Yonas Tegegn Woldemariam as a key note speaker, who emphasised the role and relevance of Basic Sciences Research in achieving the SDGs. We shared and disseminated science in plenary and breakout sessions and colleagues from the Ministry of Health were invited to participate and facilitate sessions. Our fellows had expert advice and reviews of their projects' progress by our regional and international partners and collaborators.

Scientific meetings and seminars are held throughout the year, with a focus on capturing opportunities of hearing from visiting scientists, and complementing regular seminar programmes at the Ugandan partner institutions. MUII-plus co-hosted a workshop on outbreak response in East Africa in March 2019, and a symposium to celebrate World Immunisation week in April 2019; both events (detailed in section 4) were well attended by colleagues from research partners and the Ministry of Health.

Funding. Our fellows, alumni and members have together secured approximately USD 7,351,042 in research funds in 2019. The fellows contributed approximately USD 6,499,117 to this total.

Publications. MUII fellows, staff and alumni have published 92 papers in 2019, of these 28 acknowledged MUII-plus.

1.2 Recognition

Congratulations to MUII-plus group leader, Damalie Nakanjako, who was appointed Dean of School of Medicine, Makerere University School of Health Sciences, and MUII-plus co-director! Well done to Rose Nabatanzi and Moses Egesa, MUII-plus PhD fellows who graduated in January 2020. MUII PhD and post-doc alumnus John Kitayimbwa, was appointed Deputy Vice Chancellor for research at Uganda Christian University.

Reflections. The MUII-plus symposium was vibrant and engaging with presentations and discussion around how basic science research and scientists can contribute to the SDGs. This and other scientific events have promoted engagement with implementers and policy makers in 2019.

Aim 2. Provide career training for African I&I research leaders [*Research Training*]

Figure 1: Ronald Galiwango, MUII-plus former intern, at his PhD defense



2.1 Internships

MUII-plus internship programme manages over 100 internships per year. Of 500 applications received in 2019, we were able to place approximately 150.

MUII-plus supports approximately two disabled new graduates per year, each for six months: we currently have two (one male, one female, both deaf), placed in M&E and Procurement departments respectively and we are supporting them with a sign language interpreter. In

addition, we support strategic interns in areas of special interest (bioinformatics; ethics): in 2019, 5 strategic interns completed, of whom, 4 secured Masters fellowships for subsequent career development; 5 new strategic interns were recruited.

Highlight. Ronald Galiwango (shown in the picture above), a former undergraduate and strategic intern, successfully defended his PhD in Epidemiology (Computational Epidemiology and Bioinformatics) at the University of Georgia, USA funded under a Fogarty-NIH PhD fellowship, and has returned to work in Uganda.

2.2 Fellowships

Details of all fellows are listed in Appendix 3.

2.2.1 Completed fellowships Two PhD fellows (Rose Nabatanzi and Moses Egesa) and 3 Honorary PhD fellow (Nicholas Bbosa) graduated in 2020, and two honorary PhD fellows (Angela Nalwoga and Gyaviira Nkurunungi) completed in 2019 and will graduate shortly! We granted No Cost Extensions to three PhD fellows and one post-doctoral fellow from the second cohort to enable them to finish their studies. One of our MMED fellows (Frances Rwamatu) graduated and relocated back to her home country, Sierra Leone. Moses Egesa has already secured funding for his post doc work.

2.2.2 Continuing fellowships. Utilising unspent funds from the bioinformatics impi, we awarded 3 two-year MUII-BRecA Masters fellowship grants in collaboration with the Fogarty-funded Nurturing Genomics and Bioinformatics Research Capacity in Africa (BRecA).

We continue to ensure quality research and compliance with good clinical research practice through internal monitoring: most of our fellows have had their study close out monitoring visits. Our positive experience of continuous study monitoring was presented at the DELTAS AGM in July 2019 and a paper is in preparation.

Continuous plagiarism checks: with our subscription to plagiarism software, we have run all our fellows' theses before submission for defense. We have also developed the MUII-plus Quality Assurance Guidelines to ensure our fellows, staff, alumni and centre members conduct high quality research in accordance with national and international standards and guidelines.

2.3 Technical training

In parallel with the fellowship programme, MUII-plus supports technical training in key areas through the work of the Statistics, Immunology and Bioinformatics Implementation teams (Impis).

2.3.1 Statistics underpins all excellent research. Provision has been led by Rebecca Nsubuga (MRC/UVRI and LSHTM Uganda Research Unit) who unfortunately left the MRC in September 2019. We are looking to find a replacement soon from MRC. Rebecca and colleagues at MRC/UVRI, and Agnes Kiragga (MUII alumna; head of statistics at the Infectious Diseases Institute [IDI]) contributed one-on-one statistical support to fellows, and led statistics courses. In 2019, MRC/UVRI ran a three-day course on Introduction to Programming for Biologists.

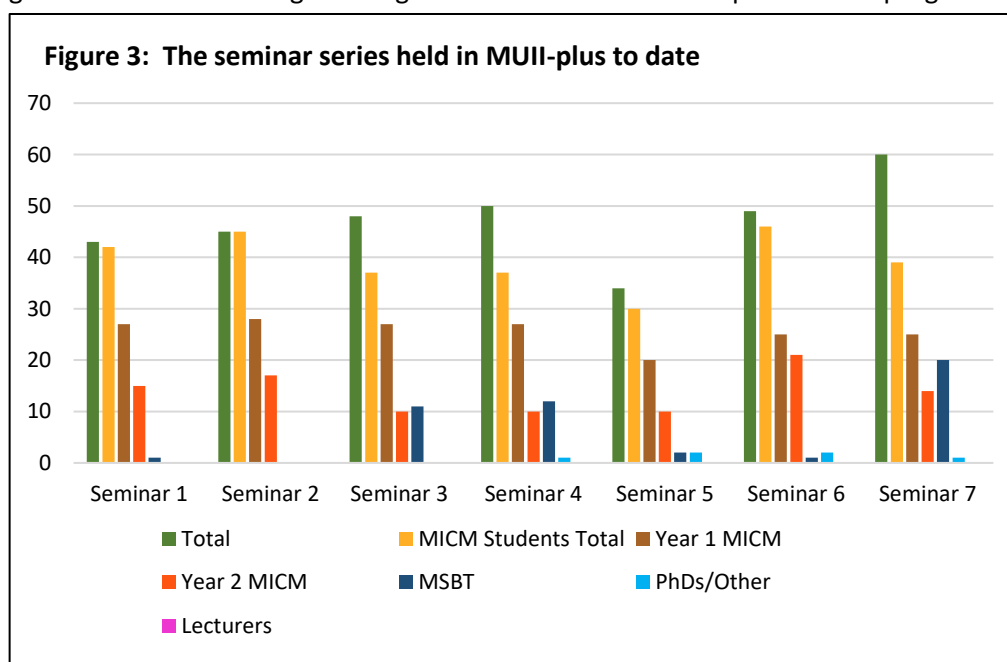
2.3.2 The Immunology Impi contributes to immunology training through salary support to Steve Cose and Bernard Bagaya, who lead the Impi. Activities include support to the new Department of Immunology & Molecular Biology (approved by University Council in March 2016) and the Master of Science in Immunology and Clinical Microbiology at the Makerere University College of Health Sciences. 2019 recorded an astonishing number of 88 applicants for the Master of Science in Immunology and Clinical Microbiology and admitted an overwhelming 60 students for 2019/2020.

As part of MUII's international outreach, the impi held a successful immunology course in Gabon on helminth immunology in January 2020- figure 2.

Figure 2: Stephen Cose, giving a lecture in Gabon, Immunology Course flyer



2.3.3 Cambridge seminars. MUJI-plus (Makerere/UVRI Infection and Immunity Centre of Excellence) asked the Cambridge- Africa programme to initiate an expert seminar series to support the Masters in Immunology and Clinical Microbiology(MICM) and Masters in Bioinformatics(MSBT) at Makerere University, Kampala, Uganda-shown in Figure 3. To date, there have been eight video linked seminars in six seminar series. Some of the recorded seminars are uploaded on our website with approvals from the guest lecturers. we are grateful to our Cambridge colleagues for the time and effort put into this programme.



Reflections. Immediate feedback is that the seminars are well received and have closed a big gap in the range of faculty available which has been beneficial for the students and faculty. The huge popularity of the course attests to the positive experience that it offers and the recognised quality of its local and international teaching.

2.3.4 **The Bioinformatics and Computational Biology (BCB) Impi** is led by alumni Jonathan Kayondo and Deogratius Ssemwanga, together with John Kitayimbwa, Daudi Jinjo, David Kateete and others from Makerere. This year's activities include the following.

Bioinformatics courses, meeting, conferences. An Intermediate Bioinformatics course (Intermediate IBT-2019) on 16S rRNA NGS -based Microbiome data analysis is currently on-going. This is an H3ABioNet two month (two days (four hours/day) of contact time per week) on-line course series with the BCB hosting a local class and providing Teaching assistance support. Course modules include Linux/ R programming, Study design, Bioinformatics 16S rRNA analysis pipelines among others. UVRI class has six enrolled students supported by three on-site Teaching Assistants.

An Advanced Bioinformatics Course on Viral Bioinformatics and Genomics was hosted at Makerere in realisation of a planned collaboration with the Wellcome Genome Campus Overseas course. The course run in Kampala from June 23rd-28th where BCB collaboratively provided course tutors and teaching assistants.

Bioinformatics training and mentorship.

We have the 2018 Strategic bioinformatics intern, Ms. Rita Nabunje, mentored into admission to the BReCA M.Sc. Fogarty Training program at Makerere University.

BCB hub lead members are mentoring and co-supervising three GeMVi research fellows (Alfred Ssekagiri [MUII-plus Masters alumnus], Phiona Tushabe and Prossy Namuwulya) at UVRI. The GeMVi is a University of Warwick-led collaboration with various partner institutes in East Africa conducting Global Health Research Group project on the Application of Genomics and Modelling to the Control of Virus Pathogens (GeMVi) in East Africa; this is supported by the UK National Institute for Health Research (NIHR).

BCB members, Dr. Jonathan Kayondo and Matthew Cotten are also co-supervising and hosting Mr. Henrick Aduda Kola at UVRI for his M.Sc. research project. Mr. Kola is an East African Network for Bioinformatics Training (EANBiT; Fogarty-funded) research fellow enrolled at the University of Pwani. His thesis topic is "Characterization of transmission dynamics of recent VHF outbreaks in Uganda: New outbreaks or on-going transmissions?"

Bioinformatics Capacity for Technical support for Fellows/Projects at UVRI:-

We have taken a 16S rRNA microbiome sequence data analysis exercise to assess our site competence in this area. Assessment is still under way and if our node passes shall receive H3ABioNet accreditation for demonstrated expertise and availability of computational infrastructure for this work. We have installed 16S rRNA analysis pipelines and workflows at UVRI

Networking

Fogarty training grants- BCB members provided technical support for curricular development to BReCA and EANBiT programs. Several BCB hub members are teaching modules for BReCA M.Sc. program. Semester 1 courses are currently on-going.

GeMVi - NIHR Global Health Research Group project on the Application of Genomics and Modelling to the Control of Virus Pathogens (GeMVi) in East Africa.

H3ABioNet - BCB has continued working with H3ABioNet to advance bioinformatics capacity at UVRI (see intermediate bioinformatics course, curricular development, and node

accreditation exercise above).

Colleagues from the MRC/University of Glasgow Centre for Virus Research are key collaborators on Metagenomic Next Generation Sequencing bioinformatics applications for pathogen detection and identification continued, including supporting two MUII-plus PhD fellows. BCB supported a joint application for NIAID-NIH funding call [RFA-AI-19-028](#) for establishment of an Emerging Infectious Disease Research Center at UVRI. (Application still under review)

BCB member, Daudi Jjingo was asked to lead African Center of Excellence (ACE) in Bioinformatics and Data Science at IDI.

2.4 Mentorship and professional development

The MUII mentorship programme continues to grow and thrive under the leadership of our alumna Irene Andia. A number of alumni and international collaborators have signed up as mentors. The MUII-plus mentorship portal was as well added to the MUII-plus website where a total of 23 pairs of mentor-mentee have been matched.

The mentorship team promoted the impu at three meetings. One meeting was at 4th Joint International Students Scientific Conference (JISSC) 2019 Makerere where 45 mentees were registered. The second, the Makerere Joint Annual Scientific Conference (JASH) was held at Hotel Africana from 6th to 8th November 2019 and registered 12 Mentees and 4 Mentors. The third was at the recent African Women in Science Hub(AWiSH)meeting at Silver Springs on 23rd November 2019 and registered about 20 women in science.

A baseline survey was conducted to assess the reasons why the MUII-plus had faced challenges in establishing a formal mentorship programme. The results were presented at the AAS AGM in Dakar Senegal as a poster presentation. The manuscript is in preparation.

The fellowship programme is complemented by skills and professional development workshops. In partnership UVRI, IDI and MRC, the fellows were hosted to a number of engaging and formative trainings and workshops in 2019. (Table 1).

Table 1: MUII-plus workshops and courses, 2019-2020

Workshop/course
Monitoring and Evaluation ,Uganda
Intellectual Property workshop , Uganda
Operationalizing a Protocol ,Uganda
Mentorship training in Scientific writing

Aim 3. Utilise and enhance the UVRI-Makerere I&I research environment [*Management & Environment*]

MUII-plus aims to build on the achievements of MUII-1 to enhance research infrastructure at the Ugandan partner institutions, and to enhance research support, particularly at UVRI where the grant is held.

3.1 Research support.

MUII-plus continues to enhance the capacity of research support staff at UVRI in several areas: Finance, Information Technology, Human Resources, Procurement and Internal Audit. More staff were awarded grants to develop their careers.

Table 2: MUII-plus staff career development

Joshua Mandre, Accountant	PhD in Accounts
Teopista Zansanze, Accounts Assistant	Association of Chartered Certified Accountants (ACCA)
Victoria Bukirwa, Centre Manager	Advanced course in M&E
Mary Gorrethy Mboowa, M&E Assistant	Advanced course in M&E
Pamela Nabukenya, Communication	Masters in Journalism and Communication
Fiona Luboga	Online Graduate Certificate in Visual & Digital Health Communication
Moses Kizza, Administrator	Masters in Health Management
Raymond Muganyizi, Senior Administrative Assistant	Masters in Business Administration
Monica Katusabe	course in conflict management and resolution
Sarah Coutinho	Clinical Research Associate (CRA) course
Edward Higenyi, Procurement	Certification of healthcare supply chain Management.
Timothy Wamala, IT	Certified Information Systems Auditor

3.2 Research infrastructure

Our plans for infrastructure in 2019 were to complete work on facilities in both the College of Natural Sciences (CONAS) and College of Veterinary Medicine, Animal Resources and Biosecurity (CoVAB), and to promote utilisation of the computational facilities at the Uganda Medical Informatics Centre (UMIC). Progress is as follows.

- I. The Bioinformatics and computational Biology Lab at CONAS is fully operational. Twenty-six PhD students utilise the facility out of these 21 are doing computational science in three areas: Bioinformatics and computational Biology, financial mathematics and statistical and data modelling. In 2019, MUII-plus additionally refurbished 3 lecture rooms to very good standard - with fixed overhead projectors and Air Conditioning and floor tiling and full time wifi - these three lecture rooms are now used for graduate lectures, conferencing and break-away rooms for seminars.
- II. The CoVAB Laboratory was completed and was officially handed to Dr Robert Tweyongyere, the Dean School of Veterinary Medicine at CoVAB (and MUII alumnus)-in figure 4. The programme has already received three PhD and master students, who will operate the facility.
- III. Two bioinformatics grants have been utilised at UMIC. Among these, Segun Fatumo and Rebecca Nsubuga were co-authors on a study of African genomes, that largest of its kind, hosted by UMIC, part-funded by MUII-plus, and published in Cell in 2019.

Figure 4: Coverage of the CoVAB hand over in the New Vision



3.3 MUII-plus specific management progress

MUII-specific management activities have progressed smoothly.

3.3.1 **An external audit** was conducted for 2018

3.3.2 **Administrative meetings** were held bi-weekly, chaired by the Centre Manager. These were changed from weekly to bi-weekly to allow enough time for progress updates.

3.3.3 **Executive meetings** were held quarterly, chaired by the Centre Director.

3.3.4 **Steering Committee meetings** have been held twice, in January and June 2019

Aim 4. Engage in outreach [Citizenship]

MUII-plus aims to promote Infection and Immunity research in Uganda and the region through outreach in three areas: (i) in science, to regional and international collaborators, (ii) in training to regional centres of excellence and (iii) to the wider community to share the excitement and importance of science for the community, and to promote translation of research results.

4.1 Outreach in Science: MUII collaborative awards

MUII-plus offers a selection of collaborative awards (Travel, Visiting Scientist and Endeavour Awards) designed to foster Scientific Quality, Training and Outreach (three of our aims). These awards enable

first class training and teaching, as well as new collaborations and outreach, by providing opportunities for new collaborators to visit Uganda and for Ugandan scientists to visit colleagues in other countries; In 2019 Sheila Nabweyambo, MUII-plus PhD fellow, travelled to Karolinska University in Sweden to train on sequencing and data analysis; Steve Cose, Immunology impi lead travelled to University of Cape Town, South Africa, to discuss potential collaborations for the next round of MUII funding; Paul Katongole, MUII-plus alumnus travelled to the University of Cambridge – Cancer Research UK for capacity building.

4.2 Outreach in training

Vaccines Theme day: MUII-plus in collaboration with UVRI and MRC&LSHTM hosted the Science Theme Day on Vaccines and Immunity in commemoration of the World Immunisation Week to highlight vaccines research at UVRI. Various policy makers and researchers discussed vaccine and their development infrastructure in Uganda.

MUII-plus supported two university symposia attracting a young undergraduate student around Uganda to engage and discuss science; Beatrice Nassanga, one our PhD fellow gave a talk at the 1st Annual Inter-University Biotechnology Symposium, at University of Kisubi. Fiona Luboga, our communication specialist set up a MUII-plus booth at the Makerere University Joint Annual Scientific Health (JASH) conference.

Our Immunology impi led by Stephen Cose hosted a week long Immunology course in Gabon (detailed in section 2.3).

4.3 Outreach to the wider community and policy makers

Together with the Uganda Virus Research Institute (UVRI) and the UK Public Health Rapid Support Team (UK-PH RST), MUII-plus hosted the Representatives from governments and organisations working in East Africa interested in collaborating to further enhance research and capacity relative to outbreak preparedness and response in Africa. The meeting was titled “Partnering for Outbreak Preparedness and Response: Research and Capacity Building Collaboration in East Africa,” aimed at engaging and enhancing collaboration between stakeholders involved in outbreak preparedness, response, research and capacity building in the East African Region through dialogue and feedback from the diverse attendees. The meeting provided a great opportunity for the UK-PHRST and UVRI to come together and identify areas of cross over and potential collaboration between the two organisations as well as other partners in the region.

Paul Katongole (MUII-plus MMed alumnus) won an African Academy of Science

Grant to carry out a public engagement initiative involving training on antimicrobial resistance and infection prevention among primary school students in Kampala District, Uganda "Power over Bugs Project."

Figure 5: MUII-plus alumnus, Paul Katongole teaching primary pupils



Appendix 1. New grants reported by MUII Centre members and alumni: 2016-2019

Grant title	Names of grant-holders (include role in project)	Key collaborating Institutions	Awarding Body	Amount	Grant period
Current fellows					
NURTURE research training fellowship. PI Nelson Sewankambo	Annettee Nakimuli (PI)	Makerere University; University of Cambridge	Makerere University - NURTURE Program.	£45,800	2016-2018
Cambridge Africa – Alborada Research fund	Carmel McNiery (PI), Annettee Nakimuli (Co-PI)	Makerere University; University of Cambridge	Wellcome Trust – Cambridge Centre for Global Health Research	£10,400	2016-2018
Bill & Melinda Gates Foundation	Annettee Nakimuli (Travel awardee)		Travel award to attend the Deep Dive workshop of the Maternal, Newborn and Child Health Program, Seattle, USA	Travel and accommodation	September 2017
Keystone Symposia Global Health Travel Award	Annettee Nakimuli (Travel awardee)		Keystone Symposia	\$2,960 USD	October 2017
Cardiovascular health after pre-eclampsia	Annettee Nakimuli (PI)	Makerere University CHS	GSK NCD-Open lab	£100,000	2018-2020
Development grant MR R015031: Holistic Approach To Unravel Antibacterial resistance in East Africa (HATUA)	Matt Holden (PI) Benon Asimwe (co-PI)	St Andrews University Makerere University CHS	MRC UK	£80,000	2017- 2018
NK cells and ART	Damalie Nakanjako (PI)	Makerere University CHS	Alliance for Global Health and Science at the University of California, Berkeley, USA and the Wheeler Center for Emerging and Neglected Diseases, University of California, Berkeley, USA.	\$35,000 USD	2017-2018
ILCs and ART	Damalie Nakanjako (PI)	Makerere University CHS	Alliance for Global Health and Science at the University of California, Berkeley, USA and the Wheeler Center for Emerging and Neglected Diseases, University of California, Berkeley, USA.	\$35,000 USD	2017-2018

Grant title	Names of grant-holders (include role in project)	Key collaborating Institutions	Awarding Body	Amount	Grant period
IUIS-FAIS Immuno-Ethiopia 2017 Travel Award A course: “New developments in the immunology, diagnosis and treatment of cutaneous and visceral leishmaniasis, schistosomiasis and helminth infections in an area of high tuberculosis prevalence”	Moses Egesa (Travel awardee)	UVRI	Sponsored by: The International Union of Immunological Societies, the University of Gondar, Ethiopia and the University of Lausanne, Switzerland.	Travel and accommodation, in kind	2017
Vaccinology Course Bursary: Vaccinology in Africa Course	Moses Egesa (Bursary Awardee)	UVRI	Jenner Institute, University of Oxford and MUII Plus	Fees and accommodation, in kind	2017
American Society for Tropical Medicine & Hygiene Travel Award	Richard Sanya (Travel awardee)	UVRI	American Society for Tropical Medicine & Hygiene	Fees, accommodation, travel costs, in kind	2017
IAS travel scholarship	Rose Nabatanzi (Travel awardee)	Makerere CHS	International AIDS Society	Fees, accommodation, travel costs, in kind	2017
Keystone travel scholarship	Rose Nabatanzi (Travel awardee)	Makerere CHS	Keystone Symposia	Fees, accommodation, travel costs, in kind	2017
Nurturing Genomics and Bioinformatics Research Capacity in Africa (BReCA) Grant number 1U2RTW010672-01	David Kateete (PI) Daudi Jingo (PI) Graham Mardon (PI)	Makerere University; Baylor College of Medicine	NIH Fogarty	\$1,250,000 USD	2017-2021
Investigating the role of altered Lung microbiome in the pathogenesis of HIV associated COPD	Alex Kayongo (PI)	Makerere CHS	GSK NCD open lab	£100,000	2017-2020
Using <i>in vitro</i> mycobacterial growth inhibition assays as a tool to assess functional immune responses induced by VPM1002 vaccination in infants	Simon Kimuda (PI)	MRC/UVRI	MRC (IMPRINT vaccine network)	£63,500	2018-2019
Holistic Approach To Unravel Antibacterial resistance in East Africa (HATUA)	Matt Holden (PI; MUII+ collaborator) and Benon Asiiimwe (co-PI; MUII+ Group Leader)	Makerere University; UVRI; University of St Andrews	MRC UK	£2,995,000	2018-2022

Grant title	Names of grant-holders (include role in project)	Key collaborating Institutions	Awarding Body	Amount	Grant period
The Role of Transcription Profiles in Assessing Host and Treatment Responses in Type 2 Diabetes Mellitus and Tuberculosis Infection.	Irene Biraro	Makerere University; UVRI	Medical Research Council/Uganda Virus Research Institute Uganda and London School of Hygiene and Tropical Medicine Research Unit	£39,825	October 2018-March 2020
Assessing functional immune responses induced by ChAdOx1 85A-MVA85A prime boost vaccination in BCG vaccinated adolescents from Uganda	Simon Kimuda	UVRI	Medical Research Council/Uganda Virus Research Institute Uganda and London School of Hygiene and Tropical Medicine Research Unit	£34,465	June 2018-June 2019
Preparing for <i>Schistosoma mansoni</i> controlled human infection studies in Uganda	Meta Roesteneberg (PI) Moses Egesa; Alison Elliott	UVRI; Leiden University Medical Centre	Medical Research Council UK via the HIC-Vac network	£89,563	2018-2019
Clinical evaluation of novel plasma biomarkers for stage diagnosis among sleeping sickness patients in Uganda (TMA2017CDF-1887)	Charles Kato Drago (PI)	Makerere University	The European and Developing Countries Clinical Trials Partnership or EDCTP	€130,125	January 2019 to December 2022
5D43TW009093-05; Supplementary funds to complement the MUII PhD fellowship support	Lois Bayigga	Makerere University; Boston	NIH Fogarty International Center	\$44,345	01/01/2018 TO 31/12/2018
MIDAS (Models of Infectious Disease Agents Study)	John Kitayimbwa	Makerere University; Edinburgh University	NIH	\$10,000	1st January 2019-31st March 2019
CG259 /UGA-AVE-17-107	Denis Muhanguzi (PI)	Makerere University	GALVmed	\$52,254.8	02/08/2017-11/09/2018
ROSLIN 2006	Denis Muhanguzi (PI)	Makerere University	The Roslin Institute and Royal (Dick) School of Veterinary Sciences	\$23,760	June 2017-January 2019
Role of Gut microbiome in Prostate cancer Pathogenesis	Paul Katongole (PhD student)	Makerere University	Uganda Cancer Institute (African Development Bank – Fund)	1. Tution 2. Stipend 3. Research costs (\$30,000)	2018-2021
Exploring the feasibility of a population cohort to facilitate long-term studies on risk factors for non-communicable diseases in Uganda.	Annetee Nakimuli (Group lead)	Makerere University	Makerere University-Research and Innovative Fund	\$51,181	2019 - 2020

Grant title	Names of grant-holders (include role in project)	Key collaborating Institutions	Awarding Body	Amount	Grant period
Advancing Tissue and Organ Biobanking in Uganda	Annetee Nakimuli (Group lead)	Makerere University	Makerere University-Research and Innovative Fund	\$66,139	2019 - 2020
WSI International fellowship	Annetee Nakimuli Group lead	Makerere University	Wellcome Trust Sanger Institute (WSI)	\$13,0029	2019 - 2021
Use of Machine Learning as a Prognosis Prediction Model to Guide Clinical Decision Making on the Infectious Diseases Unit at Kiruddu National Referral Hospital	Damalie Nakanjako (Group lead)	Makerere University	Makerere University-Research and Innovative Fund	\$13,458	2019 - 2020
To investigate the relationship between microbial diversity and pulmonary TB disease, in a setting with high burden of HIV and TB coinfection	David Patrick Kateete	Makerere University	European and Developing Countries Clinical Trials Partnership (EDCTP)	\$170,000	2020 - 2022
MDRTBTx-Monitor TMA2018CDF-2351	Drago Charles Kato	Makerere University	EDCTP Career Development Fellowship	\$166,044	2019 - 2022
Towards Elimination of Rhodesiense Human African Trypanosomiasis: Spatial and temporal mapping of disease hotspots in Uganda.	Drago Charles Kato	Makerere University	CARTA	\$48,000	2019 - 2020
Cytokines as novel therapeutic agents in the management of late stage Trypanosoma brucei rhodesiense sleeping sickness: a preclinical trial (CaNTMS)	Drago Charles Kato	Makerere University	Makerere University	\$21,602	2019 - 2020
African Research Collaboration on Sepsis (ARCS) grant ID #: 17/63/42	Pritch Kabaata (MMed)	Makerere University/UVRI	National Institute of Health Research in the United Kingdom	\$5,000	2019
Role of glycan-specific antibodies	Simon Kimuda Post-doc	MRC/UVRI	Crick African Network	\$188,541	2019 - 2021
CCHF outbreak investigation in Lyantonde for a duration of a month (Public engagement activity)	Stella Atim (PhD)	MUK/UVRI	Centre of Virus Research (CVR), University of Glasgow	\$2,601	2019

Grant title	Names of grant-holders (include role in project)	Key collaborating Institutions	Awarding Body	Amount	Grant period
Special project : To study, "The role of antimalarial antibodies in functional modulation of the natural killer cell response to malaria infection"	Stephen Tukwasibwe (PhD)	MUK/UVRI	International Center of Excellence in Malaria Research (ICEMR), funded by the NIH	\$49,900	2020 - 2022
BRecA PhD training fellowship	Alfred Sekagiri	Makerere University	Makerere University	\$53,000	2019 - 2022
GEMVI Research Fellowship	Alfred Sekagiri	Makerere University	Kenya Medical Research Institute	\$13,150	2019 - 2020
RIA2018CO-2514: Randomised Controlled Trial of Preventive Treatment of Latent Tuberculosis Infection in Patients with Diabetes Mellitus:	Irene Andia	Makerere University	European and Developing Countries Clinical Trials Partnership (EDCTP)	\$5,322,280	2020 - 2025
Pregnancy Associated Tuberculosis (PAT): Immunological Outcomes of Exposed Newborns Study	Irene Andia	Makerere University	CRICK African Network	\$188,541	2019 - 2021
Disentangling the population structure of MRSA in an urban low income	David Patrick Kateete	Makerere University	The ALBORADA Research Fund: Cambridge-Africa	\$25,000	2020 - 2021
MUII Steering Committee members: grants relevant to MUII work					
Makerere University – UVRI Centre of Excellence for Infection and Immunity Research and Training: (MUII-plus)	Alison Elliott (PI); E.K. Mbidde, P. Kaleebu, J.Y.T. Mugisha, D. Kabasa, H. Mayanja-Kizza, A. Kambugu, M. Buyinza, D.W. Dunne, A. Moffett, M. Sandhu, D. Mabey, G. Bancroft (Co-Is)	UVRI; MRC/UVRI; Makerere University; Infectious Diseases Institute; LSHTM; University of Cambridge	Wellcome Trust	£4,262,085	2016-2020
The parasite paradox: do worm infections protect against diabetes and cardiovascular diseases?	Richard Grenis (PI), Alison Elliott (Co-PI)	University of Manchester; MRC/UVRI	Royal Society	£366,520	2016-2021
East African Network of Excellence for Clinical Trials	Pontiano Kaleebu (PI); co-applicants from across the region.	UVRI; partner institutions in East Africa	EDCTP	€3,000,000	2017-2022
Controlled Human Infection Models for Schistosomiasis in Uganda	Alison Elliott (PI); co-applicants from LUMC	UVRI; Leiden University Medical Centre (LUMC)	Wellcome Trust	£36,507	2017-2018

Grant title	Names of grant-holders (include role in project)	Key collaborating Institutions	Awarding Body	Amount	Grant period
Vaccinology in Africa	Adrian Hill	UVRI; Oxford University	Various	£40,887	2017
A multi-centre Phase III Phase III double-blind, randomized, controlled study to evaluate the efficacy and safety of VPM1002 in comparison to BCG	Leander Grode (PI) MUII+ co-applicant Alison Elliott . UVRI local PI Anne Wajja (Honorary MUII Fellow)	Vakzine Projekt Management GmbH; numerous African partner institutions	EDCTP; India Serum Institute	€12,493,179	2018-2022
Investigating the influence of vitamin D status on cognitive and motor development in young African children	Agnes Mutua (fellow) Sarah Atkinson (supervisor) Alison Elliott sponsor	KEMRI-Wellcome Trust Research Programme; IDEAL	Wellcome Trust	£119,212	2018-2021
Population differences in vaccine response: the role, reversibility and mediators of immunomodulation by chronic parasitic infections	Alison Elliott (PI)	MRC/UVRI and LSHTM Uganda Research Unit	Medical Research Council, UK	£2,319,188	2018-2022
MUII staff					
Target Malaria	Austin Burt (Global PI) Jonathan Kayondo (Collaborator/UVRI PI)	Imperial College of Science, Technology and Medicine; UVRI; a consortium of global partners	Bill and Melinda Gates Foundation	\$1,880,323 (UVRI budget)	2016-2020
Crick African Network	Robert Wilkinson (PI); Stephen Cose (CoPI); Alison Elliott (CoPI); Pontiano Kaleebu (CoPI)	Crick Institute, UK MRC/UVRI; a consortium of African partners	MRC	£6,347,363	2017-2021
H3ABioNet: informatics solutions for H3Africa	Nicola Mulder (Consortium PI) Jonathan Kayondo (UVRI-Node PI)	University of Cape Town; UVRI; a consortium of African partners	NIH	\$378,000 (UVRI Budget)	2017-2021
Eastern Africa Network for Bioinformatics Training (EANBiT) Grant number 1U2RTW010677-01	Dan Masiga (PI) Jonathan Kayondo ; John Kitayimbwa (collaborators)	<i>icipe</i> ; Makerere University, UVRI, Uganda ; a consortium of East African partners	NIH Fogarty	\$1,180,000	2017-2021

Grant title	Names of grant-holders (include role in project)	Key collaborating Institutions	Awarding Body	Amount	Grant period
Establishing Anopheles Mosquito Observatory in Uganda	Jonathan Kayondo	UVRI	Bill and Melinda Gates Foundation (BMGF) through Pan African Mosquito Control Association (PAMCA)	\$100,000	March 1st 2019 to Feb 29 2020
Human infection studies for Schistosoma mansoni vaccine testing in Uganda	Alison Elliott (PI)	MRC/UVRI and LSHTM Uganda Research Unit	Wellcome Trust	\$ 39, 009	2019
75N93019C00070	Stephen Cose	MRC/UVRI and LSHTM Uganda Research Unit	National Institute of Health	\$750000	2019-2022
MUII centre members					
TrypanoGEN+: the genetic determinants of two neglected tropical diseases	Enock Matovu (PI); Alison Elliott (co-I)	Makerere University; UVRI; a consortium of African and UK partners.	H3Africa	Exact amount to be confirmed: ~\$2,700,000 USD	2018-2021
Design and implement models and algorithms that predict possibility of HIV infection among young Ugandans and link them to care for prevention	Daudi Jjingo	Makerere University, Research and Innovation fund	Data Driven HIV Prevention Among Young Adults in Uganda	\$62916	2019 - 2020
MUII alumni					
Immunological Selection of Recombinants following HIV-1 Superinfection (ISoReS).	Deogratius Ssemwanga (PI)	MRC/UVRI Unit	EDCTP	€150,000	2016-2019
Tracing mothers on option B+ and ascertainment of outcomes of their babies.	Agnes Kiragga (PI)	Infectious Diseases Institute;	EDCTP	€150,000	2016-2019
Tracing HIV positive women in urban Uganda and comparison of outcomes with retained women	Kara-Wools-Kaloustian (IU – PI) Agnes Kiragga (Uganda-PI)	University of Indiana, USA; Infectious Diseases Institute	NIH	\$235,000	2016-2017
Harriet Mpairwe	Neil Pearce – Study Principal Investigator Harriet Mpairwe – Project leader for the Uganda site	LSHTM; MRC/UVRI; 4 other study sites across the world.	European Research Council, Horizon 2020	€229,258 (for the Uganda site)	2016- 2020

Grant title	Names of grant-holders (include role in project)	Key collaborating Institutions	Awarding Body	Amount	Grant period
Improving early detection and intervention for young infants at high-risk of neurodevelopmental delay and disability in Uganda	Maggie Nampijja (PI) Cally Tann and others (Co-PI)	MRC/UVRI Uganda; LSHTM; Kiwoko Hospital, Uganda; and others	Saving Brains/ Grand Challenges Canada	250,000 Canadian Dollars	2017-2019
Reproductive Health Empowerment through Telehealth (REHEAT)	Agnes Kiragga	Infectious Diseases Institute	PEER (Partnerships for Enhanced Engagement in Research; USAID)	\$199,150	2018-2020
D43TW010045: PhD fellowship at the University of Georgia	Ronald Galiwango (former MUII strategic intern)	University of Georgia	NIH Fogarty International Center	Tuition and fees, health insurance, institutional materials and travel. The program also provides a stipend of \$38,849 annually i.e. ~\$160,000	2016-2020
MUII honorary fellows					
Microarray-assisted assessment of glycan-specific IgE profiles associated with helminth infection and allergy in rural and urban Uganda	Gyaviira Nkurunungi	LUMC, MRC/UVRI	The Royal Society of Tropical Medicine and Hygiene (RSTMH)	£5,000	2017
Component-based microarray-assisted assessment of allergen-specific IgE recognition profiles in rural and urban Uganda.	Gyaviira Nkurunungi	Academic Medical Centre (Amsterdam), MRC/UVRI	European Academy of Allergy and Clinical Immunology (EAACI)	€5,000	2017
Immunological mechanisms of helminth-allergy associations in Uganda (PhD Research)	Gyaviira Nkurunungi	MRC/UVRI, LUMC	African partnership for Chronic Disease Research	£64,600	2016-2019
PhD funding	Lule Abubaker Swaib	LSHTM MRC/UVRI	Commonwealth Scholarship Commission	£110,250	2016-2019
Cellular immune responses to the natural wild type Rift Valley fever virus infection among recently infected humans in Uganda.	Zacchaeus Anywaine	LSHTM MRC/UVRI	Royal Society of Tropical Medicine and Hygiene (RSTMH)	\$6411	2019 - 2020

Appendix 2. Publications by MUII Fellows, Alumni and Staff

Publications by MUII Fellows, Honorary Fellows, Alumni and Staff 2019

1. Abaasa A, Asiki G, Obuku Ekii A, Wanyenze J, Pala P, J van Dam G, Corstjens PLAM, Hughes P, Ding S, Pantaleo G, **Kaleebu P, Elliott AM**, Kamali A. [Effect of high-intensity versus low-intensity praziquantel treatment on HIV disease progression in HIV and *Schistosoma mansoni* co-infected patients: a randomised controlled trial](#). Version 2. Wellcome Open Res. 2019 Apr 3 [revised 2019 Jan 1] ;3:81. doi: 10.12688/wellcomeopenres.14683.2
2. Aker EAO, Nabaggala MS, Kaimal A, Nalwanga D, Castelnuovo B, Musubire A, **Kiragga A**, Lamorde M, Ratanshi RP. [BMC An observational study in an urban Ugandan clinic comparing virological outcomes of patients switched from first-line antiretroviral regimens to second-line regimens containing ritonavir-boosted atazanavir or ritonavir-boosted lopinavir](#). Infect Dis. 2019 Mar 25;19(1):280. doi: 10.1186/s12879-019-3907-5.
3. Anguzu G, Flynn A, Musaaazi J, Kasirye R, Atuhaire LK, **Kiragga AN**, Kabagenyi A, Mujugira A. [Relationship between socioeconomic status and risk of sexually transmitted infections in Uganda: Multilevel analysis of a nationally representative survey](#). Int J STD AIDS. 2019 Mar;30(3):284-291. doi: 10.1177/0956462418804115
4. **Anywaine Z**, Whitworth H, Kaleebu P, Praygod G, Shukarev G, Manno D, Kapiga S, Grosskurth H, Kalluvya S, Bockstal V, Anumendem D, Luhn K, Robinson C, Douoguih M, Watson-Jones D.J [Safety and Immunogenicity of a 2-Dose Heterologous Vaccination Regimen With Ad26.ZEBOV and MVA-BN-Filo Ebola Vaccines: 12-Month Data From a Phase 1 Randomized Clinical Trial in Uganda and Tanzania](#). Infect Dis. 2019 Jun 5;220(1):46-56. doi: 10.1093/infdis/jiz070.
5. Aruhomukama D, Najjuka CF, Kajumbula H, Okee M, Mboowa G, Sserwadda I, Mayanja R, Joloba ML, **Kateete DP**. [bla_{VIM}- and bla_{OXA}-mediated carbapenem resistance among Acinetobacter baumannii and Pseudomonas aeruginosa isolates from the Mulago hospital intensive care unit in Kampala, Uganda](#). BMC Infect Dis. 2019 Oct 16;19(1):853. doi: 10.1186/s12879-019-4510-5.
6. Atherton RR, **Cresswell FV**, Ellis J, Kitaka SB, Boulware DR. [Xpert MTB/RIF Ultra for Tuberculosis Testing in Children: A Mini-Review and Commentary](#). Front Pediatr. 2019 Feb 28;7:34. doi: 10.3389/fped.2019.00034. eCollection 2019. Review.
7. Baumann A, Musaaazi J, Kambugu A, Kälin M, Weissberg D, **Ssemwanga D**, Fehr J, Castelnuovo B, Sekaggya-Wiltshire C, von Braun A.J. [Virological Outcome of Patients With HIV Drug Resistance Attending an Urban Outpatient Clinic in Uganda: A Need for Structured Adherence Counseling and Third-Line Treatment Options](#) Acquir Immune Defic Syndr. 2019 Apr 1;80(4):481-487. doi: 10.1097/QAI.0000000000001943.
8. Baumann A, Musaaazi J, Kambugu A, Kälin M, Weissberg D, **Ssemwanga D**, Fehr J, Castelnuovo B, Sekaggya-Wiltshire C, von Braun A. [Virological Outcome of Patients With HIV Drug Resistance Attending an Urban Outpatient Clinic in Uganda: A Need for Structured Adherence Counseling and Third-Line Treatment Options](#). J Acquir Immune Defic Syndr. 2019 Apr 1;80(4):481-487. doi: 10.1097/QAI.0000000000001943.
9. **Bayigga L, Kateete DP**, Anderson DJ, Sekikubo M, **Nakanjako D**. [Diversity of vaginal microbiota in sub-Saharan Africa and its effects on HIV transmission and prevention](#) Am J Obstet Gynecol. 2019 Feb;220(2):155-166. doi: 10.1016/j.ajog.2018.10.014
10. Bayiyana A, Okurut S, **Nabatanzi R**, Zziwa G, Boulware DR, Lutwama F, Meya D. [Longitudinal Changes in Cd4+, Cd8+ T Cell Phenotype and Activation Marker Expression Following Antiretroviral Therapy Initiation among Patients with Cryptococcal Meningitis](#). J Fungi (Basel). 2019 Jul 17;5(3). pii: E63. doi: 10.3390/jof5030063.
11. **Bbosa N**, Kaleebu P, **Ssemwanga D**. [HIV subtype diversity worldwide](#). Curr Opin HIV AIDS. 2019 May;14(3):153-160. doi: 10.1097/COH.0000000000000534.
12. **Bbosa N, Ssemwanga D, Nsubuga RN**, Salazar-Gonzalez JF, Salazar MG, Nanyonjo M, Kuteesa M, Seeley J, Kiwanuka N, **Bagaya BS**, Yebra G, Leigh-Brown A, Kaleebu P. [Phylogeography of HIV-1 suggests that Ugandan fishing communities are a sink for, not a source of, virus from general populations](#). Sci Rep. 2019 Jan 31;9(1):1051. doi: 10.1038/s41598-018-37458-x.
13. Bomboka JB, **N-Mboowa MG**, Nakilembe J. [Post - effects of obstetric fistula in Uganda; a case study of fistula survivors in KITOBU mission hospital \(MASAKA\), Uganda](#). BMC Public Health. 2019 Jun 6;19(1):696. doi: 10.1186/s12889-019-7023-7
14. **Cresswell FV**, Te Brake L, Atherton R, Ruslami R, Dooley KE, Aarnoutse R, Van Crevel R. [Intensified antibiotic treatment of tuberculosis meningitis](#). Expert Rev Clin Pharmacol. 2019 Mar;12(3):267-288. doi: 10.1080/17512433.2019.1552831. Epub 2019 Feb 12. Review. PMID:30474434
15. **Cresswell FV**, Tugume L, Bahr NC, Kwizera R, Bangdiwala AS, Musubire AK, Rutakingirwa M, Kagimu E, Nuwagira E, Mpoza E, Rhein J, Williams DA, Muzoora C, Grint D, **Elliott AM**, Meya DB, Boulware DR; ASTRO-CM team. [Xpert MTB/RIF Ultra for the diagnosis of HIV-associated tuberculous meningitis: a prospective validation study](#). Lancet Infect Dis. 2020 Jan 7. pii: S1473-3099(19)30550-X. doi: 10.1016/S1473-3099(19)30550-X
16. Kwizera R, **Cresswell FV**, Mugumya G, Okirwoth M, Kagimu E, Bangdiwala AS, Williams DA, Rhein J, Boulware DR, Meya DB. [Performance of Lipoarabinomannan Assay using Cerebrospinal fluid for the diagnosis of Tuberculous meningitis among HIV patients](#). Version 2. Wellcome Open Res. 2019 Sep 30 [revised 2019 Jan 1];4:123. doi: 10.12688/wellcomeopenres.15389.2. eCollection 2019
17. **Cummings MJ**, Tokarz R, **Bakamutumaho B**, Kayiwa J, Byaruhanga T, Owor N, Namagambo B, Wolf A, Mathema B, Lutwama JJ, Schluger NW, Lipkin WI, O'Donnell MR. [Precision Surveillance for Viral Respiratory Pathogens: Virome Capture Sequencing for the Detection and Genomic Characterization of Severe Acute Respiratory Infection in Uganda](#). Clin Infect Dis. 2019 Mar 19;68(7):1118-1125. doi: 10.1093/cid/ciy656.

18. De Francesco D, Winston A, Underwood J, **Cresswell FV**, Anderson J, Post FA, Williams I, Mallon PW, Sachikonye M, Babalis D, Vera JH, Bagkeris E, Milinkovic A, Sabin CA. [Cognitive function, depressive symptoms and syphilis in HIV-positive and HIV-negative individuals](#). Int J STD AIDS. 2019 Apr;30(5):440-446. doi: 10.1177/0956462418817612. Epub 2019 Jan 10.
19. Ellis J, Bangdiwala AS, **Cresswell FV**, Rhein J, Nuwagira E, Ssebambulidde K, Tugume L, Rajasingham R, Bridge SC, Muzoora C, Meya DB, Boulware DR. [The Changing Epidemiology of HIV-Associated Adult Meningitis, Uganda 2015-2017](#). Open Forum Infect Dis. 2019 Sep 29;6(10):ofz419. doi: 10.1093/ofid/ofz419. eCollection 2019 Oct. Erratum in: [Open Forum Infect Dis. 2019 Dec 03;6\(12\):ofz506](#).
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21. **Fatumo S**, Carstensen T, Nashiru O, Gurdasani D, Sandhu M, **Kaleebu P**. [Complimentary Methods for Multivariate Genome-Wide Association Study Identify New Susceptibility Genes for Blood Cell Traits](#) Front Genet. 2019 Apr 26;10:334. doi: 10.3389/fgene.2019.00334. eCollection 2019.
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Appendix 3. MUII fellows, past and present

[Current fellows highlighted in orange, completed fellowships highlighted in green]

Forename	Award dates	Research area/focus	Funding	Current position
Group Leaders, current				
Annettee Nakimuli	2017-2020	Pre-eclampsia	MUII-plus	Associate Professor, Head of Department of Obstetrics & Gynaecology, Makerere CHS
Damalie Nakanjako	2017-2020	HIV and immune activation	MUII-plus	Professor, Deputy Dean, School of Medicine, Makerere CHS
Benon Asiimwe	2017-2020	Anti-microbial resistance	MUII-plus	Associate Professor, Makerere CHS
PhD students, current				
Beatrice Nassanga	2019-2020	Tuberculosis vaccine immunogenicity	MUII/MRC	PhD student
Bridgious Walusimbi	2019-2022	Helminths, microbiome and metabolism	Royal Society	PhD student
Grace Nabakooza	2018-2021	Modelling the Transmission Dynamics of Avian Influenza in Africa with unbiased sampling	MUII-plus	PhD student
Stella Atim	2018-2021	Crimean-Congo haemorrhagic fever and other emerging tick-borne viral infections in Uganda.	MUII-plus	PhD student
Rita Mwima	2018-2021	Mosquito dynamics	Open Philanthropy Project Fund, an advised fund of Silicon Valley Community Foundation*	PhD student
Zac Anywaine	2018-2021	Rift Valley Fever	UK NIHR *	PhD student
Martin Mayanja	2017-2020	Characterisation and vector competence of rhabdoviruses in Arua and Kasese districts in Uganda.	MUII-plus	PhD student
Jacobs Iramiot	2017-2019	Under Benon Asiimwe's Group Leader Award	MUII-plus	PhD student
Sheila Nabweyambo	2017-2019	Under Annettee Nakimuli's Group Leader Award	MUII-plus	PhD student
Richard Sanya	2017-2019	The effect of helminth infection on insulin resistance and type 2 diabetes in rural and urban Uganda	MUII-plus	PhD student
Samuel Kyobe	2017-2019	Role of HLA Alleles in HIV Disease Progression in two African Paediatric Population	MUII-plus	PhD student
Stephen Tukwasibwe	2016-2019	Role of Killer cell Immunoglobulin-like Receptor and Human Leukocyte Antigen Polymorphisms in Transmission and Severity of Malaria in Uganda	MUII-plus	PhD student
Lois Bayigga	2016-2019	Immuno-Modulation of Host Susceptibility to HIV Infection in	MUII-plus	PhD student

Forename	Award dates	Research area/focus	Funding	Current position
		the female Genital Tract: The Role of Microbiota		
fiona Cresswell	2017-2020	Tuberculous meningitis	Wellcome Trust	PhD student
Annet Nanvubya	2017-2020	HIV research	IAVI*	PhD student
Anne Wajja	2016-2017	Tuberculosis vaccines	MRC *	PhD student
Angela Nalwoga	2016-2019	Kaposi's Sarcoma Herpes Virus	APCDR*	PhD student
Masters students, current				
Joy Kabagenyi	2019-2021	Bioinformatics	EANBiT*/ MUII	Masters student (supplementary funding from MUII)
Saudah Namubiru	2018-2019	MMED: Group B streptococcal colonization as a risk factor for poor neonatal outcomes among pregnant women in labour at Mulago Hospital	MUII-plus	Masters student
Pritch Kabata	2018-2019	MMED: The role of IL-7 on Phagocytosis among patients with sepsis in Mulago Hospital	MUII-plus	Masters student
Ivan Sserwadda	2019-2020	Characterization of accessory genomes of methicillin-resistant staphylococcus aureus isolates from inpatients attending the orthopedic ward of mulago hospital	MUII-plus/BRecA	Masters student
Edward Lukyamuzi	2019-2020	Assessing genetic differentiation and structure of Anopheles gambiae mosquito populations in Uganda from whole genome sequence analysis	MUII-plus/BRecA	Masters student
Ritah Nabunje	2019-2020	In Silico Characterisation of Variations in the HBB Gene and its Regulatory Regions in African Populations: Elucidating Genetic Risk for Hemoglobinopathies and Malaria	MUII-plus/BRecA	Masters student
Post-doctoral fellows, completed				
Irene Biraro	2016-2018	The Link between Tuberculosis Infection and Type-2 Diabetes Mellitus: Contribution of Innate Lymphoid Cells	MUII-plus	Senior Lecturer, Department of Medicine, Makerere CHS
David Kateete	2016-2018	Prevalence and Implications of Mixed <i>Mycobacterium tuberculosis</i> Infections in Uganda	MUII-plus	Lecturer and Acting Head of Department of Immunology and Molecular Biology, Makerere CHS
John Kitayimbwa	2016-2018	Uncovering Fine Scale Transmission Dynamics in a Heterogeneous Ugandan Population Using Molecular Phylogenetic and Phylogeographic Methods	MUII-plus	Lecturer, Department of Mathematics, CONAS
Dennis Muhanguzi	2017-2018	<i>Trypanosoma brucei sensu lato</i> (s.l.) drug resistance: A roaming impediment to 2030 sleeping sickness eradication plan	MUII-plus	Assistant Lecturer, Makerere, COVAB
Charles Kato Drago	2016-2018	Clinical Validation of Novel Stage Diagnostic Biomarkers among	MUII-plus	Assistant Lecturer, Makerere

Forename	Award dates	Research area/focus	Funding	Current position
		<i>Trypanosoma brucei rhodesiense</i> Sleeping Sickness Patients in Uganda		Department of Bio- Molecular Resources and Biolab Sciences, COVAB
Annettee Nakimuli	2013-2015	The Role of Killer immunoglobulin-like receptor (KIR) and HLA-C genes in Pre- eclampsia in an African population	MUII	Head of Department of Obstetrics & Gynaecology, Makerere CHS
Maggie Nampijja	2014-2016	Investigating growth and cognitive benefits of intensive versus annual anthelmintic treatment in children living in a heavily infected community	MUII	Scientist, MRC/UVRI
Damalie Nakanjako	2011-2013	Optimizing immune recovery among HAART-treated adults in an African cohort	MUII	Deputy Dean, School of Medicine, Makerere CHS
Deo Ssemwanga	2012-2014	The Virological and Immunological Correlates of HIV- 1 superinfection among HIV-1 infected subtype discordant partners and female sex workers in Uganda	MUII	Senior Scientist, EDCTP Career Development Fellow, MRC/UVRI
Harriet Mpairwe	2012-2014	Study on Asthma	MUII	Senior Scientist, Wellcome Trust Training Fellow, MRC/UVRI
Robert Tweyongyere	2009-2011	Examining Immunoregulatory mechanisms in <i>Schistosoma</i> <i>mansoni</i> infection: the effector mechanisms of eosinophils	MUII	Dean, School of Veterinary Medicine, Makerere COVAB
Jonathan Kayondo	2009-2011	Emergence of Nevirapine resistance arising after treatment cessation and/or during successive structured treatment interruption (STI) in a rural and urban setting and development of assays to detect minority population	MUII	Senior Research Officer, UVRI
Agnes Kiragga [§]	2014-2015	Statistics; HIV	MUII	Head of Statistics, Infectious Diseases Institute, Makerere CHS
John Kitayimbwa [§]	2014-2015	Mathematics; HIV	MUII	Lecturer, Department of Mathematics, Makerere CONAS
Irene Biraro [§]	2015-2016	Tuberculosis	MUII	Senior Lecturer, Department of Medicine, Makerere CHS
PhD Fellows, completed				
Rose Nabatanzi	2017-2019	Under Damalie Nakanjako's Group Leader Award	MUII-plus	PhD student
Nicholas Bbosa	2014-2017	HIV phylodynamics and phylogeography	MRC *	PhD student
Moses Egesa	2013-2017	B- and T-cell responses to novel <i>Schistosoma mansoni</i> skin-stage vaccine candidate antigens	MUII/MUII-plus	PhD student; Scientific Officer, UVRI

Forename	Award dates	Research area/focus	Funding	Current position
Gyaviira Nkurunungi	2016-2019	Helminths and allergy	APCDR*	PhD student
Swaib Lule	2016-2019	Fetal Origins of Disease	Common-wealth*	Post-doctoral research, University College London
Simon Kimuda	2013-2017	Effects of <i>Mycobacterium tuberculosis</i> on B cell responses	MUII/ MUII-plus	Project leader and post-doctoral fellow, MRC/UVRI & LSHTM Uganda Research Unit
Annettee Nakimuli	2009-2013	The Role of Natural Killer Cells in Preeclampsia in an African population: A genetic study of Killer immunoglobulin-like receptors and HLA-C polymorphisms	MUII	Head of Department of Obstetrics & Gynaecology, Makerere CHS
Agnes Kiragga	2009-2013	Improving prediction of HIV outcomes using from routine Observational data using nested research cohort databases	MUII	Head of Statistics, Infectious Diseases Institute, Makerere CHS
John Kitayimbwa	2009-2013	Viral dynamics of HIV during combinational therapy amidst emergence of HIV drug resistant strains	MUII	Lecturer, Department of Mathematics, Makerere CONAS
Irene Biraro	2009-2013	Co-infections and their role in altering immune responses in household contacts exposed to sputum positive tuberculosis in Uganda	MUII	Senior Lecturer, Department of Medicine, Makerere CHS
Masters fellows, completed				
John Vianney Tushabe	2018-2019	Bioinformatics	Wellcome Trust Sanger Institute* / MUII	Masters student (supplementary funding)
Frances Ramatu Wurie	2018-2019	MMED: exploration of mycobacterium Tuberculosis antigen specific iga in saliva of subjects with latent and active TB	MUII-plus	Masters student
Beatrice Nassanga	2016-2018	Immunology & Clinical Microbiology. Project: Immunological factors affecting the immune response to TB vaccine candidate MVA85A	MUII-plus	Masters student
Alex Kayongo	2016-2018	Immunology & Clinical Microbiology. Project: Host genetic factors responsible for CD4 intrinsic resistance to HIV in Ugandan Elite and viraemic controllers	MUII-plus	Masters student
Lilian Namuli	2016-2018	Immunology & Clinical Microbiology: project to be decided	MUII-plus	Masters student
Emmanuella Dricuru	2016-2018	Immunology & Clinical Microbiology: project to be decided	MUII-plus	Masters student
Paul Katongole	2017-2018	Biofilm Formation in uropathogenic <i>Escherichia coli</i> strains in Uganda: relationship with urovirulence factors and antimicrobial resistance	MUII-plus	Masters student (project funding)
Grace Nabakooza	2016-2018	Bioinformatics	MUII-plus	Masters student

Forename	Award dates	Research area/focus	Funding	Current position
Alfred Ssekagiri	2016-2018	Bioinformatics	MUII-plus	Masters student
Simon Kimuda	2011-2013	Immunology & Clinical Microbiology	MUII	PhD student, MUII
Peter Naniima	2011-2013	Molecular Biology	MUII	PhD student, Hannover, Germany
Doreen Tuhebwe	2011-2013	Public Health	MUII	Project coordinator, Institute of Public Health, Makerere
Justine Bukirwa	2011-2013	Immunology & Clinical Microbiology	MUII	Infectious Diseases Institute
Harriet Namanya	2011-2013	Immunology & Clinical Microbiology	EU*	
Moses Egesa	2011-2013	Immunology & Clinical Microbiology	EU*	PhD student, MUII

* Honorary MUII fellows – trainees participating in the MUII fellowship programme but supported by other funding sources⁵
One year, post-doctoral bridging funds