

## **CURRICULUM VITAE**

### **A. PERSONAL PROFILE:**

Name: Baseke Joy  
Sex: Female  
Nationality: Ugandan  
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### **B. EDUCATIONAL BACK GROUND**

**Year: 2008-2012**

**Institution:** Makerere University

**Award:** Masters in Biomedical laboratory Sciences and Management

**Studied:** Advanced Microbiology and Immunology, Advanced applied laboratory chemistry, Epidemiology, biostatistics and research methods, advance cytobiology and cytopathology, Tissue culture and transplant technology management, Laboratory service management and quality assurance, Genetic engineering and biotechnology, laboratory sector planning, policy and organizational development, laboratory economics, financial management and marketing, advanced emerging infectious and non-infectious diseases and biomedical lab information management and informatics.

**Year: 2004-2007**

**Institution:** Makerere University

**Award:** Degree in Biomedical Laboratory Technology

**Studied:** Principles of epidemiology and disease prevention, diagnostic endocrinology and disease reproductive health, biologicals and vaccine production, laboratory and captive animal management, project planning and management, management and entrepreneurship, special clinical diagnostic technologies, serology, immunology and immunochemistry, applied nutrition and food lab science, molecular biology and biotechnology fundamentals, genetics, breeding and

gene bank technology, Laboratory technology in pharmaceuticals and chemotherapeutics, environmental toxicology and aquatic laboratory, laboratory computing and information technology, research

methods and communication skills, plant biology, museum, and herbarium technology.

Biostatistics

**Year:** 1997-1999

**Award:** Diploma in Medical Lab Technology

**Institution:** School of medical laboratory technology, Makerere University

**Studied;** Microbiology, parasitology, Virology, Immunology, Public Health

**Year:** 1995-1997

**Institution:** School of Medical Laboratory technology Makerere University

**Award:** Certificate in Medical Lab Technology

**Studied:** Microbiology, Haematology, Clinical Chemistry, Histopathology, Parasitology

**Year:** 1992-1995

**Institution:** Uganda Polytechnic Kyambogo

**Award:** Diploma in Science Technology (Kyambogo University)

**Year:** 1989-1992

**School:** Kololo High School

**Award:** Uganda Advanced Certificate of Education (UACE)

**Year:** 1985-1988

**School:** Nabumali High School.

**Award:** Uganda Certificate of Education (UCE)

**Year:** 1978-1984

**School:** Kamonkoli Mixed Primary School.

**Award:** Primary Leaving Exam (PLE)

### **C. WORKING EXPERIENCE.**

#### **TEACHING: AUG 2019 TO DATE**

I joined Busitema University as a teaching assistant: I conduct lectures, tutorials and laboratory practicals. During my term of service, I have been able to re-activate the collaboration in practical training between Mbale Regional Referral Hospital (MRRH) laboratory and Busitema University faculty of health Sciences. As a result the students have been able to do the hands on

practical in the MRRH main lab for the assays which could not be done in Busitema University Laboratories due to lack of equipment. Currently I work as a lab technician and I teach students in practicals and conduct tutorials.

### **STUDENT PLACEMENT TRAINING 2001-2018**

During my practice as a laboratory technologists, I have trained students on bench work, taking them through ‘hands on’ practicals at the Mbale Clinical Research Institute, Joint Clinical Research Centre where I previous worked and Busitema University Faculty of Health Sciences where I am currently working. This enabled students to have the practical experience besides the academic knowledge from class.

### **RESEARCH: 2001-2016**

I have been involved in research since 2001. I worked with Uganda Case Western Reserve University Research Collaboration/ Joint Clinical Research Centre from 2001 to 2016. I started as a laboratory technologist, progressed to senior laboratory technologist, research assistant co-principal investigator and principal investigator. During my term of service, I trained students on attachment in the immunology laboratory, developed study specific laboratory Standard operating procedure (SOP), I implemented research projects, and processed samples according to protocol and SOP. I performed various assays like Peripheral blood mononuclear (PBMC) isolation, PBMC culture, flow cytometry for intracellular and surface staining, ELISPOT, ELISAs, and processed samples for repository. I co-authored on various papers in the area of HIV and Immunology and authored on paper on Hepatitis B in HIV patients.

### **JUNE 2016-NOV 2018**

I worked with Mbale Clinical Research Institute as laboratory manager. During my term of office I implemented and participated various research projects in pediatric studies in various fields; malaria, respiratory problems, and malnutrition. I trained student in laboratory practical procedure and results interpretation to ensure that quality and authentic results get to the patient or requesting doctor. We did various assays like: Microbiology procedure, malaria diagnosis, identification, quantification and classification, haematology, clinical chemistry, processed samples for repository and manager the repository database.

### **QUALITY ASSURANCE AND QUALITY CONTROL**

I ensured quality assurance and quality control in the places I have worked as a pre-requisite in research. To ensure the laboratories are operating at international standards, I prepared the

Uganda- Case Western Immunology laboratory for accreditation and it passed without citation and enrolled the MCRI lab for proficiency testing in preparation for accreditation.

### **DEC 2018-DEC 2019**

I worked as regional quality assurance networking officer where I did routine monitoring of studies to ensure compliance to GCP principles and protocol and safety of participants. To ensure quality data from the research findings. I also monitored Mbale Clinical Research Institute (MCRI) backup labs to ensure that they performed according to the required standards. Additionally did a survey on laboratories on their ability to handle emergencies, data is under analysis before publication.

### **MANAGEMENT**

I worked as Lab manager and after serving as an assistant Lab manager in the Uganda Case Western Reserve University Research Collaboration/ Joint Clinical Research Centre Immunology Lab. As a lab manager, I managed the team, I ensured that work was distributed equally among the personnel and duties were performed according to schedule. I trained students on hospital attachment and new personnel and sent regular reports to the supervisors. I ensured that there were sufficient supplies so that study work is not jeopardized. I generated laboratory reports, which were sent to my supervisors.

### **PUBLICATION**

During my time of involvement in research, I have authored and co-authored various immunology papers. I am working on a publication for laboratory readiness to handle emergencies and effect of TNF- $\alpha$  on re-activation of Latent TB disease. Below is a list of publications I authored or co-authored:

- 1. Lancioni C, Swarbrick GM, Park B, Nyendak M, Nsereko M, Mayanja-Kizza H, Null MD, Cansler ME, Duncan RB, Baseke J, Chervenak K, Malone L, Heaphy EG, Boom WH, Lewinsohn DM, Lewinsohn DA.** Recognition of CD8+ T-cell epitopes to identify adults with pulmonary tuberculosis. *Eur Respir J.* 2019 May 30;53(5).
- 2. Lewinsohn DA, Swarbrick GM, Park B, Cansler ME, Null MD, Toren KG, Baseke J, Zalwango S, Mayanja-Kizza H, Malone LL, Nyendak M, Wu G, Guinn K, McWeeney S, Mori T, Chervenak KA, Sherman DR, Boom WH, Lewinsohn DM.** Comprehensive definition of human immunodominant CD8 antigens in tuberculosis. *NPJ Vaccines.* 2017; 2.
- 3. Hirsch CS, Baseke J, Kafuluma JL, Nserko M, Mayanja-Kizza H, Toossi Z.** Expansion

and productive HIV-1 infection of Foxp3 positive CD4 T cells at pleural sites of HIV/TB co-infection. *J Clin Exp Immunol.* 2016;1(1).

**4. Meng Q, Sayin I, Canaday DH, Mayanja-Kizza H, Baseke J, Toossi Z.** Immune Activation at Sites of HIV/TB Co-Infection Contributes to the Pathogenesis of HIV-1 Disease. *PLoS One.* 2016 Nov 21; 11(11)

**5. Meng Q, Canaday DH, McDonald DJ, Mayanja-Kizza H, Baseke J, Toossi Z.** Oct 23. Productive HIV-1 infection is enriched in CD4-CD8- double negative (DN) T cells at pleural sites of dual infection with HIV and Mycobacterium tuberculosis. *Arch Virol.* 2016

**6. Baseke J, Musenero M, Mayanja-Kizza H.** Prevalence of hepatitis B and C and relationship to liver damage in HIV infected patients attending Joint Clinical Research Centre Clinic (JCRC), Kampala, Uganda. *Afr Health Sci.* 2015 Jun;15(2):322-7

**7. Melissa R. Nyendak, Byung Soon Park, Megan D. Null, Joy Baseke, Gwendolyn M. Swarbrick, Harriet Mayanja-Kizza, Mary N. Nsereko, Denise F. Johnson, Phineas Gitta, Alphonse Okwera, Stefan Goldberg, Lorna H. Bozeman, John Johnson, W Henry Boom, Deborah A Lewinsohn.** Mycobacterium tuberculosis Specific CD8+ T Cells Rapidly Decline with Antituberculosis Treatment. *PloS one.* 2013 4;8(12).

**8. Christina L. Lancioni, Melissa R. Nyendak, Juliet Kiguli, Sarah Karen Zalwango, Toshihiko Mori, Harriet Mayanja-Kizza, Stephen Balyejusa, Megan D. Null, Joy Baseke, Deo Mulindwa, Laura M. Byrd, Gwendolyn M. Swarbrick, Christine M Scott, Denise F. Johnson, Lashaunda L Malone, Philipa Mudido-Musoke, W Henry Boom,**

**Deborah A Lewinsohn.** CD8+ T cells provide an immunologic signature of tuberculosis in young children. *American journal of respiratory and critical care* 2012

**9. Mahan CS, Zalwango S, Thiel BA, Malone LL, Chervenak KA, Baseke J, Dobbs D, Stein CM, Mayanja H, Joloba M, Whalen CC, Boom WH.** Innate and adaptive immune responses during acute M. tuberculosis infection in adult household contacts in Kampala, Uganda. *Am J Trop Med Hyg.* 2012 86(4)

**10. Christina L. Lancioni , Denise F. Johnson ,LaShauna L. Malone, Sarah Zalwango , Joy Baseke , Keith A. Chervenak ,Harriet Mayanja-Kizza ,W. H. Boom .** Insights into the Natural History of Mycobacterium Tuberculosis (Mtb) in an endemic setting: 2013

**11. Toossi Z, Wu M, Hirsch CS, Mayanja-Kizza H, Baseke J, Aung H, Canaday DH,**

**Fujinaga K.** Activation of P-TEFb at sites of dual HIV/TB infection, and inhibition of MTB-induced HIV transcriptional activation by the inhibitor of CDK9, Indirubin-3'-monoxime. *AIDS Res Hum Retroviruses*. 2012, 28(2)

**12. Christina Lancioni, Melissa Nyendak, Sarah Kiguli, Sarah Zalwango, Tomi Mori, Harriet Mayanja-Kizza, Stephen Balyejusa, Megan Null, Joy Baseke, Deo Mulindwa, Laura Byrd, Gwendolyn Swarbrick, Christine Scott, Denise F. Johnson, LaShaunda Malone, Philipa Mudido-Musoke, W. Henry Boom, David M. Lewinsohn, and Deborah A. Lewinsohn** CD8+ T Cells provide an immunologic signature of tuberculosis in young children *American Journal of Respiratory and Critical Care Medicine*.2012;185(2)

**13. Clarence Mahan, Sarah Karen Zalwango, Bonnie A. Thiel, Lashaunda L Malone, Keith Chervenak, Joy Baseke, Dennis W. Dobbs, Catherine M Stein, Harriet K. Mayanja, Moses Joloba, Christopher C Whalen, W Henry Boom.** Innate and adaptive immune responses during acute M. tuberculosis infection in adult household contacts in Kampala, Uganda. *The American journal of tropical medicine and...*2012

**14. Melissa Nyendak, Byung Park, Megan Null, Joy Baseke, Gwendolyn Swarbrick, Harriet Mayanja-Kizza, Mary Nsereko, Phineas Gitta, John L. Johnson, W.Henry Boom, Deborah A. Lewinsohn, David M. Lewinsohn** Mtb-Specific CD8+ T Cell responses decline with antituberculous therapy in smear-positive pulmonary 2011

**15. Zahra Toossi, Christina S. Hirsch, Mianda Wu, Harriet Mayanja-Kizza, Joy Baseke, Bonnie Thiel.** Distinct cytokine and regulatory T cell profile at pleural sites of dual HIV/tuberculosis infection compared to that in the systemic circulation. *Clinical and experimental immunology*2011

**16. Scott Mahan, Maria Walusimbi, Denise F. Johnson, Christina Lancioni, Edwin Charlebois, Joyce Baseke, Keith A. Chervenak, Roy D. Mugerwa, Diane V. Havlir, Harriet Mayanja-Kizza.** Tuberculosis treatment in HIV infected Ugandans with CD4 counts greater than ;350 cells/mm<sup>3</sup> reduces immune activation with no effect on HIV load or CD4 count. *PLoS ONE*.2010;5(2).

**17. L. Leidl, Harriet Mayanja-Kizza, Giovanni Sotgiu, Joy Baseke, Martin Ernst, Christina S. Hirsch, Delia Goletti, Zahra Toossi, Christoph Lange.** Relationship of immunodiagnostic assays for tuberculosis and numbers of circulating CD4+ T-cells in HIV infection. *The European respiratory journal*, 2010

**18. David H Canaday, Mianda Wu, Shigou Lu, Htin Lynn Aung, Pierre Peters, Joy Baseke, W. Mackintosh Mackay, Harriet Mayanja-Kizza, Zahra Toossi.** Induction of HIV type 1 expression correlates with T cell responsiveness to mycobacteria in patients coinfecting with HIV type 1 and Mycobacterium tuberculosis. *AIDS research and human retroviruses*, 2009

**19. Canaday DH, Wu M, Lu S, Aung H, Peters P, Baseke J, Mackay W, Mayanja-Kizza H, Toossi Z.** Induction of HIV type 1 expression correlates with T cell responsiveness to

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mycobacteria in patients coinfecting with HIV type 1 and Mycobacterium tuberculosis. *AIDS Res Hum Retroviruses*. 2008, 25(2)

**20. Delia Goletti, Stefania Carrara, Harriet Mayanja-Kizza, Joy Baseke, Michael A Mugerwa, Enrico Girardi and Zahra Toossi.** Response to *M. tuberculosis* selected RD1 peptides in Ugandan HIV-infected patients with smear positive pulmonary tuberculosis: a pilot study. *BMC Infectious Diseases* 2008,

**21. Kizza HM, Rodriguez B, Quinones-Mateu M, Mirza M, Aung H, Yen-Lieberman B, Starkey C, Horter L, Peters P, Baseke J, Johnson JL, Toossi Z.** Persistent replication of human immunodeficiency virus type 1 despite treatment of pulmonary tuberculosis in dually infected subjects. *Clin Diagn Lab Immunol*. 2005;12(11)

**22. Zahra Toossi, Harriet Mayanja-Kizza, Joy Baseke, Pierre Peters, Mianda Wu, Awet Abraha, Htin Lynn Aung, Alphonse Okwera, Christina S. Hirsch, Eric Arts.** Inhibition of human immunodeficiency virus-1 (HIV-1) by beta-chemokine analogues in mononuclear cells from HIV-1-infected patients with active tuberculosis. *Clinical and experimental immunology*, 2005

**23. Harriet Mayanja Kizza, Benigno Rodríguez, Miguel E Quiñones-Mateu, Muneer Mirza, Htin Lynn Aung, Belinda Yen-Lieberman, Colleen Starkey, Libby Horter, Pierre Peters, Joy Baseke, John Johnson, Zahra Toossi.** Persistent replication of human immunodeficiency virus type 1 despite treatment of pulmonary tuberculosis in dually infected subjects. *Clinical and diagnostic laboratory immunology* 2005

#### **TRAINING ATTENDED/DONE AWARD**

2018 Jun GCP/HSP Certificate

2016 Jun Laboratory Quality Management System -

2016 Jun Competency testing Certificate  
2016 Jun Quality Assurance/ Quality Control Certificate  
2014 Nov shipping of dangerous goods Certificate  
2013 May Dissemination and Implementation Research Certificate  
2013 July Grants writing and awards Management Certificate  
2012 Good Clinical and Laboratory Practice Certificate  
2012 Shipping of dangerous goods Certificate  
2010 Shipping of dangerous goods Certificate  
2008 Shipping of dangerous goods Certificate  
2006 Shipping of dangerous goods Certificate  
2005 Blood borne pathogens -  
2003 Good Laboratory practice Certificate

### **AWARDS**

- Outstanding performance in Uganda-Case Western Reserve University Research Collaboration-Immunology Lab for the year 2006
- Outstanding student in School of Medical Lab Technology- Paramedical training School for the year 1999

### **RESPONSIBILITIES HELD INSTITUTION**

Guest Manager Pentecostal assemblies of God, Mbale City Church  
Guest Manager Deliverance Church Makerere Hill  
Vice Chair Person Paramedical Christian Union  
Vice Chair Person Kyambogo Christian Union  
Chair Person Mbale Girls Hostel Christian Union

### **HOBBIES**

Teaching, reading, writing, working, learning, hospitality, conflict resolution, music, drama



## **REFEREES**

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