


## Academic Staff Profile

### Personal Profile

#### Personal Details

<p><b>Name:</b> Onesmus Muia Mutuku</p> <p><b>Title/Qualification:</b> M.Sc. MLS and B.SC. MLS</p> <p><b>Department:</b> Medical Laboratory Science</p> <p><b>Designation/Position:</b> Tutorial Fellow</p> <p><b>Email:</b> <a href="mailto:muia.onesmus@ku.ac.ke">muia.onesmus@ku.ac.ke</a></p> <p><b>Contact Address:</b> 2307 - 90100</p> <p><b>Area of Specialization:</b> Histopathology and Cytopathology</p> <p><b>Research Interests:</b> Cancer diagnostics with major interest in Cervical and Breast Cancers</p> <p><b>Google Scholar:</b> <a href="https://scholar.google.com/citations?user=0TsjAdgAAAAJ&amp;hl=en">https://scholar.google.com/citations?user=0TsjAdgAAAAJ&amp;hl=en</a></p> <p><b>ORCID ID:</b> <a href="https://orcid.org/0000-0003-2195-9969">https://orcid.org/0000-0003-2195-9969</a></p>	
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#### Academic & Professional Qualifications

Date	Institution	Course
January 2019 – To date	Kenyatta University	Ph.D in Medical Laboratory Sciences (Clinical Histocytology)
Sep 2015 – June 2018	Jomo Kenyatta University of Agriculture and Technology	M.Sc. in Medical Laboratory Sciences (Clinical Histopathology & Diagnostic Cytology)
Sep 2010 – August 2014	Kenyatta University	Bachelor of Science in Medical Laboratory Sciences
Jan 2004 – Nov 2008	Kathiani High School	Kenya Certificate of Secondary Education Mean Grade A minus (79/84 points)
Jan 1995 – Dec 2003	Kithito Primary School	Kenya Certificate of Primary Education (388/500 Marks)

## Employment History

Sept 2018 – To date	<p><b>Kenyatta University, Department of Medical Laboratory (Tutorial Fellow)</b></p> <ul style="list-style-type: none"> <li>➤ Teaching and examining students doing B.Sc. in Medical Laboratory Science (Basic Human Pathology, Histopathology, Cytopathology, Human anatomy, Molecular biology and Cell biology )</li> <li>➤ Coordinating practical sessions in the teaching laboratories</li> <li>➤ Departmental time tabler</li> <li>➤ Departmental administrator on website matters</li> </ul>
Jan 2018 – August 2018	<p><b>Kenyatta University, Department of Medical Laboratory (Teaching Assistant)</b></p> <ul style="list-style-type: none"> <li>➤ Writing proposals for grants application</li> <li>➤ Preparing Manuscripts for publication</li> <li>➤ Formulating and revising relevant academic policies</li> <li>➤ Invigilation and Marking of Exams</li> <li>➤ Supervision of Practical Sessions</li> </ul>
April 2017 – Dec 2018	<p><b>Penda Health (Laboratory Technologist)</b></p> <ul style="list-style-type: none"> <li>➤ Clinical diagnosis in all sections of the hospital laboratory.</li> <li>➤ Coordination of QA in all Medical Centres.</li> <li>➤ Machine maintenance, troubleshooting and quality control checks</li> <li>➤ Preparation, Reviewing and approving SOPs</li> </ul>
June 2016 – Dec 2016	<p><b>Nyanza Reproductive Health Society (Research Assistant)</b></p> <ul style="list-style-type: none"> <li>➤ Receiving and processing samples in the Research Laboratory</li> <li>➤ Packaging of samples for referrals and Shipment</li> <li>➤ Preparing Standard Operating Procedures for new research Projects</li> <li>➤ Storage of samples for long term retrieval</li> <li>➤ Keeping all data and records for various research projects</li> <li>➤ Laboratory diagnosis in all sections of the laboratory</li> <li>➤ Machine maintenance, troubleshooting and quality control checks</li> </ul>
Aug 2015 – May 2016	<p><b>Kenya School of Medical Sciences and Technology (Lecturer)</b></p> <ul style="list-style-type: none"> <li>➤ Head of Medical Laboratory Department</li> <li>➤ Teaching and examining students</li> <li>➤ Supervising students on their research projects</li> <li>➤ Preparing for practical sessions in the teaching laboratory</li> <li>➤ Coordinating of students' placement and attachments in the hospitals</li> </ul>

April 2015 – August 2015	<p><b>CLINICAL ROTATIONS DURING TRAINING</b></p> <p><b>Kenyatta National Hospital (M.Sc. MLS Clinical Rotation in the Human Pathology Department)</b></p> <ul style="list-style-type: none"> <li>➤ Receiving histological specimens</li> <li>➤ Assisting pathologists in grossing of histology biopsies</li> <li>➤ Processing and staining histology specimens</li> <li>➤ Participating in FNA collection</li> <li>➤ Processing cytology smears; both pap smears and FNAs</li> <li>➤ Screening pap smears, FNAs and signing out the reports with pathologists</li> </ul>
May 2014 – August 2014	<p><b>MP. Shah Hospital (B.Sc. MLS Hospital Attachment)</b></p> <ul style="list-style-type: none"> <li>➤ Clinical diagnosis in all sections of the hospital laboratory.</li> <li>➤ Ward rotations and phlebotomy.</li> <li>➤ Machine maintenance, troubleshooting and quality control checks.</li> <li>➤ Media preparation, specimen culturing and reporting.</li> <li>➤ Machine maintenance, troubleshooting and quality control checks.</li> <li>➤ Referring samples to external laboratories.</li> <li>➤ Maintaining the hospital's blood bank, performing compatibility tests and release of compatible blood to the wards for transfusion.</li> </ul>
May 2013 – August 2013	<p><b>Machakos Level 5 Hospital (B.Sc. MLS Laboratory Skills level III)</b></p> <ul style="list-style-type: none"> <li>➤ Clinical diagnosis in all sections of the hospital laboratory.</li> <li>➤ Performing CD4 count for samples from Comprehensive Care Clinic</li> <li>➤ Preparing samples for viral load from Comprehensive Care Clinic</li> <li>➤ Machine maintenance, troubleshooting and quality control checks.</li> <li>➤ Referring samples to external laboratories.</li> <li>➤ Testing of new diagnostic kits in Biochemistry and serology departments.</li> <li>➤ Ward rotations and phlebotomy.</li> <li>➤ Preparation of culture media, culturing of specimen and reporting.</li> <li>➤ Grossing of histological specimen and staining.</li> <li>➤ Keeping records of the released results at department levels.</li> </ul>
May 2012 – August 2012	<p><b>Bishop Kioko Catholic Mission Hospital (B.Sc. MLS Laboratory Skills level II)</b></p> <ul style="list-style-type: none"> <li>➤ Phlebotomy and specimen reception.</li> <li>➤ Routine diagnosis in all sections of the laboratory</li> <li>➤ Machine maintenance, troubleshooting and quality control checks.</li> <li>➤ Keeping records of released results at department levels.</li> <li>➤ Referring samples to external laboratories</li> <li>➤ Testing of new diagnostic kits in Biochemistry and serology departments</li> </ul>

<p>May 2011 – August 2011</p>	<p><b>Machakos Level 5 Hospital (B.Sc. MLS Laboratory Skills Level I)</b></p> <ul style="list-style-type: none"> <li>➤ Clinical diagnosis in all sections of the hospital laboratory.</li> <li>➤ Machine maintenance, troubleshooting and quality control checks.</li> <li>➤ Performing CD4 count for samples from Comprehensive Care Clinic</li> <li>➤ Preparing samples for viral load from Comprehensive Care Clinic</li> <li>➤ Referring samples to external laboratories.</li> <li>➤ Testing of new diagnostic kits in Biochemistry and serology departments.</li> <li>➤ Ward rotations and phlebotomy.</li> <li>➤ Preparation of culture media, culturing of specimen and reporting.</li> <li>➤ Grossing of histological specimen and staining.</li> <li>➤ Keeping records of the released results at department levels</li> </ul>
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## Publications

1. **O.M. Mutuku**, Kavoi B.M, Kahato. M, R. Chibvongodze and C.M. Kyama (2017). Prevalence of abnormal cervical cytology among women infected with HIV in Machakos County Hospital, Kenya. East Africa Medical Journal. 94(8), 607-614
2. R. Chibvongodze, C. Nyirakanani, J.A Ojwang, **O.M. Mutuku**, J.R. Ndung’u and C.M. Kyama (2017). HPV DNA testing and Pap smear cytology co-testing as a ‘Test of Cure’ in patients previously treated for cervical lesions by LEEP at Kenyatta national hospital. East Africa Medical Journal. 94(10), 818-823.
3. **O.M. Mutuku**, Kavoi B.M, Kahato. M and C.M. Kyama (2018). The utility of a manual liquid based cytology in screening for pre-cancerous lesion and cervical cancer. Journal of Medical Science and Clinical Research. Vol 06, Issue 02; Page 600-605
4. Scholastica Gatwiri Mathenge, Wachuka Gathigia Njoroge and **Onesmus Muia Mutuku** (2018). Assessment of Selected Heavy Metals in Soil and Untreated Wastewater Used For Irrigation in Urban and Peri-Urban Farms in Eastern Nairobi City County, Kenya. Journal of Medical Science and Clinical Research. Vol 06, Issue 08; Page 743-749
5. Scholastica Gatwiri Mathenge, Wachuka Gathigia Njoroge and **Onesmus Muia Mutuku** (2018). Assessment of Selected Antibiotics in Untreated Wastewater and Vegetables in Eastern Nairobi, Kenya. European Journal of Pharmaceutical and Medical Research. Vol 05, Issue 08; Page 01-14

## **Ongoing Research**

Validation of Manual liquid based cytology and detection of high risk human papilloma virus in residual samples from HIV positive women

## **Patents**

Method of manual liquid based cytology for screening precancerous lesion and cervical cancer

## **Affiliation of Professional Bodies**

Registered by the Kenya Medical Laboratory Technicians & Technologists Board (K.M.L.T.T.B) at Degree level with a valid working License

## **National and International awards and Recognitions**

2014; Won a competitive scholarship from Katholischer Akademischer Ausländer Dienst (KAAD) For Master of Science Degree.

## **Research Grants**

**20<sup>th</sup> May 2016 – March 2017:** 1 year research grant (KSh. 200,000) from AFRICA – ai – JAPAN Project Research Funding To Evaluate the utility of Low cost manual liquid based cytology in screening for pre-cancerous lesion and cervical cancer

## **Administrative Positions Held**

Jan 2019 to date: Appointed departmental time tabler, department of medical laboratory science

Feb 2019 to date: Appointed departmental administrator on website matters, department of medical laboratory science