


## Academic Staff Profile

### Personal Profile

<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

Dec 2018 – To date	<b>Kenyatta University, Department of Medical Laboratory (Tutorial Fellow)</b> <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>
January 2018 – November 2018	<b>Kenyatta University, Department of Medical Laboratory (Teaching Assistant)</b> <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	<b>Penda Health (Laboratory Technologist)</b> <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 – December 2016	<b>Nyanza Reproductive Health Society (Research Assistant)</b> <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>
August 2015 – May 2016	<b>Kenya School of Medical Sciences and Technology (Lecturer)</b> <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