

# CURRICULUM VITAE - JOSEPHINE NYABETA RIOKI



**Profession:** Clinical Cytologist/Medical Laboratory Scientist/Medical Laboratory Assessor/Auditor  
**Qualifications:** BSc. MLS, (JKUAT), MSc. Clinical Cytology (UoN), MSc. Molecular Medicine (JKUAT)  
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**Date of Birth:** 1974  
**Cell phone:** +254722334323  
**Nationality:** Kenyan  
**Marital status:** Married with three children  
**Religion:** Christian  
**Languages:** Gusii, English and Kiswahili

## CAREER OBJECTIVE:

To impart knowledge and promote exemplary performance in training and developing technological skills in learners and young researchers in Universities and Research institutions.

## PROFESSIONAL INTERESTS:

Clinical Cytopathology, Molecular Medicine (Immunology & Molecular biology) and Cancer genomics.

## CURRENT POSITION:

1. Tutorial Fellow/Clinical Cytologist- University of Nairobi, Department of Human Pathology, College of Health Sciences.
2. BSc. Medical Laboratory Science & Technology Program Coordinator, UoN.
3. MSc. Clinical Cytology Course Coordinator, UoN.

## OTHER RESPONSIBILITIES:

1. Deputy Chair, Public Complaints Committee, Department of Human Pathology, College of Health Sciences, UoN.
2. Deputy Chair, Quality Management Systems (QMS) Steering Committee, Department of Human Pathology, College of Health Sciences, UoN.

## EDUCATIONAL BACKGROUND:

### University Education

2016 to date: Doctor of Philosophy (PhD) in Clinical Cytology (UoN) - On going  
(Area of research- Phenotyping and Genotyping of Breast cancer)

- 2008-2014: Master of Science in Molecular Medicine (JKUAT)  
 2008-2010: Master of Science in Clinical Cytology (UoN)  
 2004-2007: BSc. Medical Laboratory Science (JKUAT)

#### **Diploma courses undertaken**

- 2004: Diploma in Medical Laboratory Sciences (KMTC)  
 2000-2002: Diploma in Medical Laboratory Sciences (Technical University of Kenya)

#### **Certificate courses undertaken**

- 2012: Senior Management Course (SMC) - Kenya School of Government (Nairobi)  
 2007: Certificate in Computer Applications from Annex Computer College  
 1999-2000: Certificate in Communicable Diseases - AMREF (Nairobi)  
 1993-1995: Certificate in Medical Laboratory Sciences (KMTC)

#### **Secondary Education**

- 1988-1991: Kenya Certificate of Secondary Education (Roret Girls High School)

#### **Primary Education**

- 1981-1987: Kenya certificate of primary education (Tagabi Primary school)

#### **PUBLICATIONS:**

- 2014: **Rioki Josephine N**, Ndung'u JR. & Rogena EA. Comparative Evaluation of Direct smear, Modified Ziehl Neelsen (ZN) against Fluorescent methods for the detection of Acid/Alcohol Fast Bacilli in Lymph Node aspirates. EAJP July, 2014; Vol. 1: 19-22.
- 2015: **Rioki Josephine N**, Wamachi A, Wahihanya R & Bii C. Evaluation of rapid diagnostic methods for the diagnosis of cryptococcal meningitis in HIV positive patients in a health facility, Nairobi-Kenya. EAJP December, 2015; Vol. 2: 18 – 22.
- 2017: **Rioki Josephine N**. Rapid Diagnosis of Cryptococcal Meningitis-ISBN 978-3-330-05515-5 (LAMBERT Academic Publishing).
- 2017: Mokuia Grace M, **Rioki Josephine N**, Kigundu- Sekadde CB & Rogena EA. Molecular characterization of Human Papilloma Virus (HPV) in urine among HIV infected men attending a high volume hospital, Nairobi –Kenya. EAJP December, 2017; Vol. 4: 41-45.
- 2018: Osimbo George O & **Rioki Josephine N**. Adequacy of laboratory requisition forms submitted to cytology laboratory in Kenyatta National Hospital: a laboratory based audit study. EAJP July, 2018; Vol. 5: 7-12.
- 2018: Mespia Manyepa, Rogena EA, Oyugi J, **Rioki Josephine N** and Musa Otieno Ngayo. Utility of GeneXpert and Cytomorphology in the diagnosis of Extrapulmonary Tuberculosis at Kenyatta National Hospital in Kenya (Abstract). Am J Clin Pathol 2018;150: S76-S83 (S78).
- 2018: Grace Mokuia, **Rioki Josephine N**, Christine Kigundu, Musa Otieno Ngayo and Emily Rogena. Is Human Papillomavirus infection among HIV- infected men in Kenya underestimated? (Abstract). Am J Clin Pathol 2018; 150: S76-S83 (S81).
- 2018: **Rioki Josephine N**. Profile of childhood cancers diagnosed at Kenyatta National Hospital, Kenya: A Two- Year Study. Elixir International Journal,124 (2018) 52213-52216.

- 2018: Ngoma F, **Rioki JN**, Waweru W, Walong EO. Utility of p16INK4a/Ki-67 ICC stain as an adjunct to conventional pap smear in the diagnosis of cervical neoplasia in women living with HIV attending Comprehensive Care Clinic at Kenyatta National Hospital. *EAJP* December, 2018; Vol. 5: 47-54.
- 2018: Nthambi L, **Rioki JN**, Mungania M, Walong EO. Patterns of cervical lesions among women living with HIV attending Comprehensive Care Clinic in Makueni Referral County Hospital, Kenya. *EAJP* December, 2018; Vol. 5: 67-70.
- 2019: **Rioki Josephine N** & Nthambi Loise J. Knowledge Level on Cervical Cancer amongst HIV positive women in Makueni County, Kenya. *Elixir International Journal*, 128 (2019) 52794-52797.
- 2019: **Rioki Josephine N**. Undergraduate Medical Laboratory Training in Kenya: A Personal View. *Elixir International Journal*, 126 (2019) 52495-52497.

#### **ABSTRACTS FOR CONFERENCES:**

- 2010: Comparative Evaluation of Direct smear, Modified Ziehl Neelsen (ZN) and Fluorescent methods for the detection of Acid /Alcohol Fast Bacilli in Lymph Node aspirates [Poster presentation in Association of Pathologists of East Central and South Africa (APECSA)] Conference in Uganda

#### **RESEARCH WORK DONE:**

- 2009-2010: Evaluation of Diagnostic Methods for rapid Diagnosis of Cryptococcosis in HIV Positive Patients at Mbagathi District Hospital (Master's Thesis-JKUAT) Nairobi Kenya
- 2009: Comparative Evaluation of Direct smear, Modified Ziehl Neelsen (ZN) & Fluorescent methods for the detection of Acid /Alcohol Fast Bacilli in Lymph Node aspirates (Master's Dissertation-UoN)
- 2005: Comparison of Rapid techniques in the diagnosis of Cryptococcal meningitis in HIV/AIDS patients (Undergraduate Dissertation)
- 2001: Prevalence of Pulmonary Tuberculosis at Mbagathi District hospital Nairobi

#### **SUPERVISION AND MENTORSHIP OF STUDENTS:**

##### **POSTGRADUATE RESEARCH WORK CO-SUPERVISED TO COMPLETION**

1. Utility of p16ink4a/ ki-67 dual stain as an adjunct to conventional smear for the diagnosis of cervical lesions among HIV positive women attending CCC in KNH, Kenya.
2. Diagnostic utility of modified cell block from fine needle aspirates of thyroid nodules at Kenyatta national hospital.
3. Molecular Characterization of Human Papilloma Virus(HPV) Among HIV Infected Men at KNH, Kenya.
4. Cytological findings in uterine cervical smears from women presenting at Makueni referral County Hospital and factors affecting cervical cancer screening uptake in the county.
5. Utility of Gene-Expert and Cytopathology in the Diagnosis of Extra Pulmonary Tuberculosis at Kenyatta National Hospital

##### **UNDERGRADUATE RESEARCH WORK SUPERVISED TO COMPLETION**

1. Prevalence of Precancerous lesions among adult women attending OBs/Gynae in KNH
2. Adequacy of laboratory requisition forms submitted to cytology laboratory in Kenyatta National Hospital: a laboratory based audit study
3. Patterns of childhood malignancies diagnosed at Kenyatta National Hospital (KNH) in 2016/2017.
4. Trends in lung cancer among patients attended at Kenyatta National Hospital between the years 2012 to 2017.

5. Prevalence of breast cancer among patients seen at Kenyatta National Hospital between 2010-2015

**CONFERENCES ATTENDED:**

- 2019: 1<sup>st</sup> African Cytology Congress. Presentation; “Experience of Cytology in Kenya”  
2010: Breast Pathology and Hematology Courses - East Africa British School of Pathology, Kampala Uganda  
2010: Pre-Conference and 10th APECSA Conference. Poster presentation:” Comparative Evaluation of Direct smear, Modified Ziehl Neelsen (ZN) against Fluorescent methods for the detection of Acid/Alcohol Fast Bacilli in Lymph Node aspirates” -Kampala, Uganda

**TRAININGS & WORKSHOPS ATTENDED:**

- 2019: Team leader training (lead assessor/auditor)-KENAS, Nairobi  
2019: Grant Proposal Writing Training (session II)-University of Nairobi  
2017: Pedagogy Skills Training Workshop-University of Nairobi  
2016: Method and Equipment validation and Uncertainty of Measurements-Kenya Accreditation Service (KENAS), Nairobi  
2016: Assessors Conclave- Nairobi  
2015: International Clinical MicroResearch training workshop- UNITID, Kenya  
2015: African Society for Laboratory Medicine (ASLM) LIPTA Auditor training- Nairobi Kenya  
2015: Assessors’ conclave  
2014: Pedagogy Skills Training Workshop – Mount Kenya University, Thika campus  
2014: Facilitator in a continuous medical education (CME) in Kiambu County-Gynae and Non Gynae Cytology  
2013: Assessors training (ISO 15189: 2012) by KENAS- Nairobi  
2012: National Assessor Refresher course (NARC-02) - Nairobi  
2012: Pathology Training Workshop-University of Nairobi  
2011: Medical Laboratory Accreditation Assessment training (National Assessor) – Kenya Accreditation Services (KENAS) and WHO-African regional office Nairobi  
2011: Training on Implementation of ISO 17025:2005 - Nairobi  
2010: Basic Histology and Introduction to Immunochemistry for Laboratory Scientists and Pathologists in East Africa - Muhimbili University of Health and Allied sciences, Dar es Salaam, Tanzania.  
2010: FNA Cytology Workshop - Agakhan University Hospital Nairobi  
2009: Cytology Tutorial on Gynaecological and Fluids Cytology and the FNB Diagnosis of Breast, Thyroid and Lymph Node Lesions –Agakhan University Hospital Nairobi  
2007: ARV Management Training for Medical Health Care Workers – MSF and Mbagathi District hospital, Nairobi

**TRAININGS CONDUCTED:**

- 2019: Facilitator in a Medical laboratory auditor training in Kenya (ASLM training)- Nakuru  
2015: Facilitator in a continuous medical education (CME) in National Public Laboratories-Gynae Cytology  
2014: Facilitator in a continuous medical education (CME) in Kiambu County-Gynae and Non Gynae Cytology

**WORKSHOPS ATTENDED:**

- 2016: Final Core Curriculum for Diploma in Medical Laboratory Sciences- Giraffe Ark Nyeri

- 2014: Curriculum development Workshop (Bachelor of Science in Medical Laboratory Sciences) - University of Kabianga-Kapkatet Campus
- 2013: Review of Masters Curriculum (Clinical Cytology, Hematology, Clinical Chemistry and Microbiology) -University of Nairobi
- 2011: Development of National Medical Laboratory Equipment Policy guidelines, Naivasha, sponsored by AMREF/MSH
- 2007: Seasonal and Highly Pathogenic Avian Influenza Laboratory Diagnosis Center for Disease Control (CDC) and Kenya medical Research institute (KEMRI), Nakuru
- 2011: Development of a National Strategic Plan (Kiambu), sponsored by MSH
- 2003: HIV Kits Evaluation – NASCOP, Kilifi

### **TEACHING EXPERIENCE:**

- 2015 to date: **University of Nairobi**, Department of Human Pathology; teaching undergraduates and post graduates
- 2011 - 2015: **Mount Kenya University**-Engaged as an Associate Faculty: teaching, undergraduates (BSc.in Medical Laboratory Sciences- Histopathology Cytology and Cytopathology
- 2011 to date: **Kenya Medical Training College**: Engaged as an External lecturer, teaching Higher Diploma Students-Diagnostic Cytopathology
- 201 -2012: **Technical University of Kenya**: Taught undergraduates; Bachelor students and diploma Students-Health Education (HIV/AIDS, Drug and Substance Abuse, Communicable Diseases, Life Style Diseases), Occupational Health Hazards, Pests and Vector Control and Hygiene and Safety

### **MEDICAL LABORATORY EXPERIENCE:**

#### **Ministry of Health**

March 2011 - April 2015

Department: Forensic and Medicolegal Services

Responsibilities: Clinical Cytologist in charge- In charge of Cytotechnology, Forensic technology, Training and Policy development

#### **Ministry of Medical Services**

Oct. 2010 - Feb. 2011

Department: Mbagathi District Hospital Nairobi

Responsibilities: Clinical Cytologist

#### **Ministry of Health**

Dec. 1996 – Aug. 2010

Responsibilities: Laboratory analysis of clinical samples for disease diagnosis in Haematology, Clinical chemistry, Parasitology, Blood transfusion, Serology/immunology and Microbiology disciplines.

#### **Mukumu Mission Hospital-St. Elizabeth – Western Province**

June 1995 - Aug. 1996

Responsibilities: Laboratory analysis of clinical samples for disease diagnosis in the following Disciplines: Haematology, Clinical chemistry, Parasitology, Blood transfusion, Serology/immunology, Microbiology and bleeding of donors.

## **CLINICAL CYTOLOGY CONSULTANCY SERVICES:**

1. Nairobi Womens Hospital Ongata Rongai (March 2013 - March 2014)
2. Quest Laboratory (2016 to date)
3. Medlab Consulting Services (2015)
4. Prime Diagnostic Centre (2012)
5. Futures Cytology Lab-independent (2011 to date)

## **MEDICAL LABORATORY ASSESSMENT/AUDIT CONSULTANCY SERVICES:**

### **Consultancy with African Society for Laboratory Medicine (ASLM)**

1. Sekou toure Hospital Laboratory, Tanzania
2. Amana Hospital Laboratory, Tanzania
3. Bahama Healthcare Hospital Laboratory, Tanzania
4. Jaramogi Oginga Ondinga teaching and referral hospital
5. Nakuru PGH Hospital Laboratory
6. Riruta Satelite Health centre Laboratory
7. St. Francis Community Hospital Laboratory
8. Msambweni County Referral Hospital Laboratory
9. Kwale subcounty Hospital Laboratory

### **Consultancy with Kenya Accreditation Service (KENAS)**

1. Eastern Deanary Aids Relief Program -Cardinal Otunga Laboratory
2. Kisumu County Referral Hospital Laboratory
3. Meru County Hospital Laboratory
4. Embu Teaching and Referral Hospital Laboratory
5. Pathologists Lancet Kenya Laboratory- Mombasa
6. Pathologists Lancet Kenya Laboratory- Nakuru
7. Pathologists Lancet Kenya Laboratory -Eastleigh
8. Pathologists Lancet Kenya Laboratory - Thika
9. ST Francis Community Hospital Laboratory
10. Tabaka Mission Hospital Laboratory
11. Homabay County referral hospital Laboratory
12. Mater Hospital Laboratory
13. Keroka Subcounty Hopsital Laboratory

### **Consultancy with East African Public Health Laboratory Networking Project**

1. National Microbiology reference laboratory Nairobi
2. Busia County Hospital Laboratory
3. Kitale District Hospital Laboratory

### **Consultancy with Global Communities (CHF)**

1. Nakuru Regional Blood Transfusion Center

### **Consultancy with Africa Medical Research Foundation (AMREF)**

1. Dagoretti health centre Laboratory
2. Kibera AMREF Laboratory
3. Langa'ta Health Centre Laboratory
4. Westlands Health Centre Laboratory
5. STC Casino Health Centre Laboratory
6. Jericho Health Centre Laboratory
7. Kasarani Health Centre Laboratory

8. Kayole Health Centre Laboratory
9. Kariobangi Health Centre Laboratory
10. AMREF KCO Laboratory
11. Eastleigh Health Centre Laboratory

**Consultancy with University of Maryland (UMB)**

1. Westlands Health Centre Laboratory
2. Special treatment clinic (STC CASINO) Laboratory
3. Consolata Hospital Kyeni Laboratory
4. Nyeri Teaching and Referral Hospital

**Consultancy with African Field Epidemiology Network (AFENET)**

1. Coast PGH Laboratory
2. Kijabe Mission Hospital Laboratory
3. Mwingi District Hospital Laboratory

**Consultancy with AGLOBAL**

1. Choggoria Mission Hospital Laboratory
2. Nyeri PGH Laboratory
3. Kiambu District Hospital Laboratory

**SKILLS:**

**Laboratory skills**

Experienced and Competent in all areas of. Laboratory Medicine

**Research skills**

Good and with great interest in conducting scientific research.

**Organization skills**

Well organized individual who handles all tasks in a methodical and timely manner and able to direct organizations resources towards a common objective.

**Computer literacy**

Proficient in the use of MS Office packages, Internet and E-mail.

**Communication skills**

Communicates well both verbally and in writing. Possesses good presentation skills. Fluent in English, Swahili and Kisii languages.

**Interpersonal skills**

Relates and works well with people from different cultures and backgrounds and able to work in a multi-cultural environment.

**PERSONAL ATTRIBUTES:**

I am a strong team player, flexible and results oriented. I am able to work under pressure and minimum supervision. I believe in excellence in all tasks I undertake. I am also a gospel artiste and strongly believe in God's love for mankind including myself.

## **OTHER ROLES IN LEADERSHIP AND PARTICIPATION:**

- Class councilor and deputy head girl at high school,
- Class councilor and deputy head girl at Primary school
- Christian union leader (High School) and Class representative- University of Nairobi.
- A secretary of Abundant Life Welfare group at Kenya assemblies of God
- Nkoroi, Kajiado County since 2012 to date.
- A secretary of Chariots of Fire Evangelistic Band (COFEB) since 2013 to date.
- A director of Praise and Worship team and Choir at Kenya Assemblies of God Nkoroi, Kajiado County since 2011 to date.

## **MEMBERSHIP TO PROFESSIONAL SOCIETIES:**

1. A registered member of Kenya Medical Laboratory Technicians and Technologists' Board (KMLTTB).
2. A member of Association of Kenya Medical Laboratory Scientific Officers (AKMLSO).
3. Assistant Treasurer, Association of Kenya Medical Laboratory Assessors (AKMLA)

## **OTHER MEMBERSHIPS:**

1. Member of the Alumni of Jomo Kenyatta University of Agriculture and Technology
2. Member of the Alumni of University of Nairobi

## **REFEREES:**

1. Name: Professor Rogena Emily  
Position: Professor  
Organization: JKUAT  
Address: Department of human pathology  
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2. Name: Prof Christine Kigonde  
Position: Professor  
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Email address: [ckigonde@aar.co.ke](mailto:ckigonde@aar.co.ke), [ckigonde@hotmail.com](mailto:ckigonde@hotmail.com)
3. Name: Prof Rebecca Waihenya  
Position: Professor  
Organization: JKUAT  
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