

# **CURRICULUM VITAE**

**SAMUEL SHIKUKU LIBENDI**

**DOCTORATE**

**FEBRUARY 2017**

### 1) PERSONAL INFORMATION (Biographical):

- Name: Samuel Shikuku Libendi
- Sex: Male
- Marital status: Married, 3 children
- Date of Birth: 1979/01/01
- Age: 37 years
- Citizenship: Kenyan
- Current status: Senior Lecturer
- Telephone Number: \*Mobile: (+254)732902270,
- Address: \*Work: P.O. Box 195-80108 Kilifi, Kenya.  
\*Home: P.O. Box 972-50102 Mumias, Kenya.
- E-mail address: [sshikuku@gmail.com](mailto:sshikuku@gmail.com), [s.shikuku@pu.ac.ke](mailto:s.shikuku@pu.ac.ke)

### 2) ACADEMIC HISTORY:

- **Doctorate of philosophy** in Pharmaceutical Science  
**Period:** 2006– 2009  
**University:** Nagasaki  
**Thesis title:** Electrochemically Induced Modification of Protected Cyclic Amines
- **Masters in pharmaceutical Sciences**  
**Period:** 2004 – 2006  
**University:** Nagasaki  
**Thesis:** Ring Contraction of  $\alpha,\beta$ -Unsaturated Cyclic Amines with cis-Dihydroxylation at the  $\alpha,\beta$ -Position
- **Bachelor of Education (Science) (Hons)**  
**Period:** 2000– 2003  
**University:** Kenyatta  
**Classification:** Second class upper division (Chemistry Major)
- **Diploma (IMIS):** Institute for the Management of Information Systems  
**Period:** 2000 – 2002  
**College:** Strathmore  
**Classification:** pass
- Kenya Certificate of Secondary Education (KCSE)  
**Period:** 1994 – 1998  
**School:** St. Peters Mumias High  
**Mean grade:** B+
- **Kenya Certificate of Primary Education (KCPE)**  
**Period:** 1986 – 1993  
**School:** Mumias Central Primary

### 3) RESEARCH INTEREST

- Electrochemical oxidation of Amines

- Stereoselective synthesis of Natural Products
- Development of new methods in Synthetic Organic Chemistry.
- Total synthesis of natural products
- Phytochemistry

#### 4) PRESENT RESEARCH WORK:

- Studies on new electrochemical methods of preparing stable iminium ion
- My present work involves stereoselective introduction of cyano group into the alpha position of the cyclic amines utilizing auxiliaries as a source of chirality.

#### 5) PROFESSIONAL EXPERIENCE:

- **October 2004 – September 2006:** Research Assistant.
- **October 2006 – September 2009:** Teaching Assistant
- **January 2010 – Present:** Lecturer, Department of Chemistry & Biochemistry, Pwani University.
- **April 2012 – September 2012:** Research Fellow, National Chemical Laboratory, Pune India.

#### 6) EMPLOYMENT HISTORY

- **Jan 2010- present:** Lecturer, Department of Chemistry & Biochemistry, Pwani University College, Kenya

#### 7) RESPONSIBILITIES

- Chair: department of Chemistry

#### 8) AWARDS & SCHOLARSHIPS

- 2011: Research Training Fellowship for Developing Country Scientists (RTFDS) -
- 2006: Japanese government Scholarship to study PhD.

#### 9) GRANTS

- 2012: TWAS research grant for USD 13,000.
- PURB equipment grant worth Kshs 500,000

#### 10) SUPERVISION TO COMPLETION

- Mariam Maku Swaleh

#### 11) ON GOING SUPERVISION

- Mrs. Everlyne Kasima
- Mr. Collin Owino Omondi
- Mrs. Mimah Omar

#### 12) COMMUNITY SERVICES

- Treasurer, Pwani University College Sacco since 2010
- Chair, St John the Evangelist Jumuiya
- Patron, Pwani University Catholic Community

#### 13) CONFERENCES ATTENDED

- ✚ Participated in 7<sup>th</sup> International Kenya Chemical Society conference held in Maseno University on 14<sup>th</sup> to 18<sup>th</sup> October 2012, presented a paper titled 'Towards total synthesis of Alkaloid 223A, utilizing photon electron transfer as a key step'.
- ✚ Participated in 2<sup>nd</sup> Asian Symposium on Pharmaceutical sciences in Nagasaki, Japan held on 16<sup>th</sup> – 18<sup>th</sup> March 2009. Presented a paper on 'Selective Anodic Cyanation of Protected Cyclic Amines at  $\alpha$ -Position'.
- ✚ Participated in annual Electrochemical Society of Japan conference in Yamanashi University, Japan on 29<sup>th</sup> – 31<sup>st</sup> March 2008. Presented a paper on 'Direct Electrochemical  $\alpha$ -Cyanation of Cyclic Amines'.
- ✚ Participated in 211<sup>th</sup> annual Electrochemical Society (ECS) conference in Chicago Hilton hotel, USA on 6<sup>th</sup> – 10<sup>th</sup> may 2007. Presented a paper on 'Anodically Selective Oxidation of Cyclic Amines'.
- ✚ Participated in annual Electrochemical Society of Japan conference in Tsukuba, Japan, on 29<sup>th</sup> – 31<sup>st</sup> March 2007. Presented a paper on 'Control of Regioselectivity in Electrochemical  $\alpha$ -Methoxylation of N-protected Amines'.
- ✚ Participated in annual Chemical Society of Japan conference in Tokyo, Japan, on 26<sup>th</sup> – 29<sup>th</sup> march 2006. Presented a paper on 'Ring Contraction of  $\alpha,\beta$ -Unsaturated Cyclic Amines with cis-Dihydroxylation at the  $\alpha,\beta$ -Position'.
- ✚ Participated in 1<sup>st</sup> International Symposium on Organic Electron Transfer Chemistry Directed towards Organic Synthesis in Osaka, Japan on 19<sup>th</sup> – 22<sup>nd</sup> march 2005. Presented a paper on 'Electrochemical Oxidation of Enecarbamates and Its Comparison with their OsO<sub>4</sub> Oxidation'

#### 14) PAPERS PUBLISHED IN REFERRED JOURNALS

- ❖ **Samuel S. Libendi**, Yosuke Demizu and Osamu Onomura. Direct Electrochemical  $\alpha$ -Cyanation of Protected Cyclic Amines. *Org. Biomol. Chem.* 2009, **7**, 351-356.
- ❖ **Samuel S. Libendi**, Yosuke Demizu, Yoshihiro Matsumura and Osamu Onomura. Ring Contraction of  $\alpha,\beta$ -Unsaturated Cyclic Amines with cis-Dihydroxylation at the  $\alpha,\beta$ -Position. *Heterocycle*, 2009, **77**, 1, 311-321.
- ❖ **Samuel S. Libendi**, Yosuke Demizu, Yoshihiro Matsumura and Osamu Onomura. High Regioselectivity in Electrochemical  $\alpha$ -Methoxylation of N-Protected Cyclic Amines. *Tetrahedron*, 2008, **64**, 18, 3935-3942.
- ❖ **Samuel S. Libendi**, Takahashi Ogino, Osamu Onomura and Yoshihiro Matsumura. Stereoselective Introduction of Hydroxyl Groups to Piperidine Ring Using Electrochemical Method. *J. of the Electrochemical Society*, 2007, **154**, 2, E31-E35.
- ❖ Mariam M. Swaleh, Renison Ruwa, Moses N. Wainaina, Loice M. Ojwang, **Samuel L. Shikuku** and Justin K. Maghanga. Heavy Metals Bioaccumulation Assessment in *Acanthopleura gemmata* from Fort Jesus Mombasa. *IOSR Journal Environmental Science, Toxicology and Technology* 2016, 10, (7) 39 - 45
- ❖ Mariam M. Swaleh, Renison Ruwa, Moses N. Wainaina, Loice M. Ojwang, **Samuel L. Shikuku** and Justin K. Maghanga. Heavy Metals Bioaccumulation in Edible Marine Bivalve Mollusks of Tudor Creek Mombasa Kenya. *IOSR Journal Environmental Science, Toxicology and Technology* 2016, 10, (8) 43 - 52

## 15) LANGUAGES

Excellent in English and Kiswahili  
Good in Japanese.

## 16) REFERENCES

- ◆ Name: Prof.Ganesh Pandey.  
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Lucknow – 226014,  
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Tel. No: (91) 522 2495034  
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- ◆ Name: Prof. Muniru Tsanuo Khamis  
Address: Pwani University  
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