

**Benson Munyali Wamalwa**  
University of Nairobi  
P.O. Box 30197 00100 GPO  
Nairobi-Kenya  
Mobile: 254-729-903-792  
E-mail: [benson.wamalwa@uonbi.ac.ke](mailto:benson.wamalwa@uonbi.ac.ke)

**Current Affiliation:** University of Nairobi, Kenya.

**Current Position:** Lecturer.

### I. Qualifications & Schools

Biotechnology (PhD, Mie University)

Technology (MSc, Wageningen UR)

Biochemistry (BSc, Kenyatta University)

### II. Awards

Current Fellowships & Past Scholarships

1. *Volkswagen Foundation Fellow - Germany*
2. *Monbusho (MEXT) Research Scholar - Japan*
3. *NUFFIC-UIFP Fellow - The Netherlands*

Current Funding & Grants

1. *Grand Challenges Canada Rising Stars in Global Health (PI)*
2. *Volkswagen Foundation Research Grant (PI)*
3. *USAID Saving Lives at Birth (Innovator)*
4. *Bill & Melinda Gates Foundation GCE Grant (PI)*
5. *International Foundation for Science Grant (PI)*

### III. Professional

Lectureships

1. *Medical and Industrial Biotechnology.*
2. *Bioinformatics and Chemometrics.*
3. *Chemistry, Nano-chemistry and Analytical Biosensors.*

Research Interests: *Gene and protein engineering. Intelligent and tracker materials.*

Keystone scientific discovery: *carbohydrate-binding module family 46*.  
(<http://www.cazy.org/CBM46.html>)

Innovations in progress:

1. *Barcoded vaccines (Proof of concept)*
2. *Sanitary kits for midwives (Proof of concept)*
3. *Zeolite contraceptives (Proof of concept)*

Memberships:

*Society of Biotechnology (Japan); Society for Enzyme Engineering (Japan); Society of Applied Glycosciences (Japan); Saving Lives at Birth Community of Innovators (USA/Canada); Royal Society for Agricultural Sciences (The Netherlands).*

#### IV. References

1. **Scientific advisor:** Dr Andreas Holtel  
**Address:** Health Directorate,  
Directorate General for Research and Innovation,  
European Commission, Rue du Champ de Mars 21,  
1050 Brussels, Belgium.  
**E-mail:** [andreas.holtel@ec.europa.eu](mailto:andreas.holtel@ec.europa.eu).
2. **Scientific collaborator:** Prof. Francis Mulaa  
**Address:** Department of Biochemistry,  
University of Nairobi, P.O. Box 30197 00100 GPO,  
Nairobi, Kenya.  
**E-mail:** [mulaafj@uonbi.ac.ke](mailto:mulaafj@uonbi.ac.ke).