

Name: .Ms. Sabella Kiprono



Lecturer, Department of Medical Laboratory Science
School of Public Health and Biomedical Sciences and Technology

About Me

My area of interest is Microbiology it consist of various branches like bacteriology, Parasitology, mycology and Virology. My area of concern is mainly Bacteriology.

My main part is bacteriology is dealing with *Acetobacter xylinum* species as it can secrete Bacterial cellulose (BC) as one of biological biomaterial. (BC) synthesized from *Acetobacter xylinum* has drawn lots of attention and interest from biomedical device field due to its unique structure and properties. BC has become a favorable material for wound healing, neuron protection, meniscus and cartilage repair, bone healing and vascular grafts.

My main concern is the production of the biomaterial from the microorganism by exploring biomimetic mineralization and use electromagnetically controlled biological assembly of aligned bacterial cellulose nanofibers then use it in biomedical application.

Qualifications

PhD STUDENT in Microbiology (2014-2017) Huazhong University of Science and Technology (HUST), China

Master of Science (Microbiology) (2011) Saint Louis University (SLU), Philippines

Bachelor of Education Science (2008) (Biology and Chemistry) Egerton University, Kenya

Professional Memberships and Activities

A member of American society of Microbiology Membership ID: 57090466

International Associate member of the Society for General Microbiology Membership ID: 20001123

Expertise

Expertise in biological biomaterials that are useful for biomedical application.

Biomaterials and high- screening methods that allow the identification of new methods to control cellular behavior in tissue-engineered constructs.

Research Interests

Research on *Acetobacter xylinum*, Production of Bacterial Cellulose by the microorganism and its' uses in biomedical application like tissue repair E.g wound healing

Synthesis of Biocompatible biological Biomaterials from Microorganisms that can be implanted into human body to replace a damaged organ or tissue

Controlling the production of bacteria cellulose by exploring several methods e.g Biomimetic mineralization of the cell and use of magnetic particles to control its production and pattern

Selected Publications

Wilda O, Sabella J.K, Jeridah M, Enock O, Suge T.K, Efficacy of Plant Extracts Against Multi-Drug Resistant *Escherichia Coli* from Urinary Tract Infection (ISSN 2224-3208, VOL 2, NO.7, 2012)

Geoffrey Arasa Ouno, Scolastica Chepngetich Korir, Joane C.Cheruiyot, Sabella Kiprono: Isolation, identification and characterization of urinary tract infections bacteria and the effect of different antibiotics (ISSN 2224-3186, VOL 13, NO. 6, 2013)

Current Teaching

Study Leave

Contact Details

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