

**B.H.N Vishwani Akilangika**  
**Bodhinayaka**

BSc (Hons),



Lecturer in Biomedical Sciences,  
Department of Biomedical Sciences,  
Faculty of Health Sciences,  
CINEC Campus, Malabe  
Sri Lanka.

Contact no: 0779396313

Email: [Vishwani.bodhinayaka@cinec.edu](mailto:Vishwani.bodhinayaka@cinec.edu)

- 
- Lecturer in Biomedical Sciences, CINEC Campus, Malabe
  - Former Assistant Lecturer in Biomedical Sciences, CINEC Campus, Malabe
  - Former Demonstrator in Biomedical Sciences, CINEC Campus, Malabe
  - Former Medical Laboratory Technician in Department of Microbiology and Serology, Durdans Hospital, Colombo 03.

### Professional qualifications

- August 2023 onwards- Lecturer in Biomedical Sciences, CINEC Campus, Malabe
- July 2022- August 2023 – Assistant Lecturer in Biomedical Sciences, CINEC Campus, Malabe
- April 2021- June 2022 – Demonstrator in Biomedical Sciences, CINEC Campus, Malabe
- 2019-2021 – Medical Laboratory Technician, Department of Microbiology and Serology Laboratory, Durdans Hospital, Colombo 03.

### Educational qualifications

- 2023- Training workshop on “ICP-MS and HPLC Advanced Instruments” Sample Preparation, Analysis Troubleshooting, CKDu Information and Research Centre, Head of the Department of Chemistry, University of Kelaniya, Sri Lanka- 2023
- 2022 – Completed Certificate course in Research Methodology, University of Colombo
- 2021 – Satisfactorily Completed Training Course in Molecular Biology Techniques, Institute of Biochemistry, Molecular Biology and Biotechnology (IBMBB)- University of Colombo
- 2021 – Completed Teacher’s training program organized by Faculty of Humanities and Education, Cinec Campus, Malabe.
- 2019 – Bachelor of Science (Hons) in Biomedical Science, University of Northumbria- United Kingdom

**Research Title:** Determination of Escherichia coli and Salmonella in fresh mango samples.

**Class: First Class Honours**

- 2016 – 2018 Pearson BTEC Higher National Diploma in Biomedical Science

**Project Title:** Investigation of PML- RARA translocation in cohort of patients with Acute Myeloid Leukemia in Sri Lanka.

**Literature Review-** Relationship between gut microbiota and colorectal cancer.

**Grade-** Overall Distinction Grade

- 2017-Regulations for the External Pharmacists' Apprentice course and Examination for the Award of Certificate of Efficiency in Pharmacy, Ceylon Medical Collage Council Sri Lanka, Sri Lanka Medical Council (SLMC) (Reading)

### **Administrative Experience**

- 2024 – Parasitology module coordinator, Faculty of Health Sciences, CINEC Campus
- 2024 – General Micrology module coordinator, Faculty of Health Sciences, CINEC Campus
- 2024 – Introduction to microbiology module coordinator, Faculty of Health Sciences, CINEC Campus.
- 2024 – Industrial microbiology module coordinator, Faculty of Health Sciences, CINEC Campus
- 2022 - Introduction to Biomedical Science module coordinator, Faculty of Health Sciences, CINEC Campus
- 2022 – Immunobiology module coordinator, Faculty of Health Sciences, CINEC Campus
- 2022 – Introduction to immunology module coordinator, Faculty of Health Sciences, CINEC Campus
- 2022 - Cell Biology module coordinator, Faculty of Health Sciences, CINEC Campus.
- 2022 - Introduction to Biomedical Science module coordinator, Faculty of Health Sciences, CINEC Campus
- 2022 - Mathamatics module coordinator, Faculty of Health Sciences, CINEC Campus
- 2022 – Information technology module coordinator, Faculty of Health Sciences, CINEC Campus
- 2022 - Member of Ethics Review Committee, Faculty of Health Sciences, CINEC Campus.
- 2022 - Committee member of Induction Program, Faculty of Health Sciences, CINEC Campus
- 2021- 2022 -Laboratory Coordinator of Biomedical Science department, Faculty of Health Sciences, CINEC Campus.

### **Responsibilities and Duties as an Lecturer**

- Conducting lectures Introduction to Biomedical Sciences, Cell Biology, Immunobiology, Introduction to immunology, Applied Biochemistry, Pharmaceutical Biotechnology and Clinical Microbiology modules, General microbiology, Introduction to microbiology, Parasitology, Industrial microbiology.
- Conducting assignments, tutorials, assessments and mock examinations.
- Conducting Laboratory practical and preparation.
- Examination paper setting, conducting examinations and paper marking.
- Supervising the final year research projects of 4 th year 2 nd semester BSc (Hons) in Biomedical Science and 2<sup>nd</sup> Year 2<sup>nd</sup> semester Higher diploma in Biomedical Science students.

- Attending for student academic matters and mentoring.

### Teaching Experience

- I am working as lecturer in the department of biomedical sciences and I'm involved in conducting lectures, practical, tutorials and conducting examinations in Introduction to Biomedical Sciences, Cell Biology, Immunobiology, Introduction to Immunology, Applied Biochemistry, Biochemistry, Molecular Biology, Pharmaceutical, Biotechnology and Clinical Microbiology modules and Final Year Research project.
- I have been working as a Demonstrator in the department of Biomedical sciences and I'm involved in conducting practical sessions in Biomedical sciences modules.

### Laboratory Training

- 2017- Laboratory Training course on Molecular Biology Techniques related to Nucleic Acid Based Detection of *Mycobacterium tuberculosis (MTB)*, *Dengue virus* and *JAK2 V617F mutation*- Conducted by the CEYGEN BIOTECH in collaboration with Durdans Molecular Diagnostic Laboratories
- 2018 - Laboratory training on DNA extraction, Polymerase Chain reaction (PCR) and Gel Electrophoresis Techniques conducted by the institute of Biochemistry, Molecular Biology and Biotechnology (IBMBB)- University of Colombo.

### Extracurricular Activities

- 2023-2023- Academic Stall head of the Microbiology in CINEC Health science faculty Exhibition-CINEC EDU EXPO
- 2022- Committee member of Induction Program, Faculty of Health Sciences, CINEC Campus.

### Undergraduate Supervision

Co-supervising and Supervising the following final researches of undergraduate students, BSc in Biomedical Sciences and Higher Diploma of Department of Biomedical Sciences, Faculty of Health Sciences, CINEC Campus.

- Investigating the antimicrobial activity of secondary metabolites produced by selected *Aspergillus* species against pathogenic microorganisms.
- Investigation of In vitro Antimicrobial Effect of Commercially Available Ten Shaving Creams and Ten Shaving Foams in Sri Lanka Against Selected Human Natural Flora *Staphylococcus aureus*.
- Determination of diversity of pathogenic bacteria in street food Shawarma in Colombo district, Sri Lanka.
- Detection and isolation of pathogenic bacteria in water resources in Colombo district, Sri Lanka.
- Awareness, attitude, self-examination, practice, knowledge and factors associated towards breast cancer among undergraduate female students in Colombo district, Sri Lanka.

- The prevalence of bacterial contamination of mobile phones of undergraduate students of CINEC Campus, Malabe.
- Anti-Bacterial Activity of Marine Red Algae *Gracilaria edulis* Against Multi-Drug Resistant Bacteria.
- Synergistic Antimicrobial Activity of Macro Marine Red algae, Green algae and Brown algae against Multi Drug-resistant-Bacteria.

### Research Interest

- Extraction of DNA from whole blood samples.
- Polymerase chain reaction and Gel electrophoresis technique.
- Gene mutations involved in Acute Myeloid Leukemia.
- Antimicrobial susceptibility.
- Microbial isolation and culture.

### Completed Research Projects

- Diversity of Pathogenic Bacteria in Commercially Available Mango fruits in Western Province, Sri Lanka- University of Northumbria
- Investigation of PML- RARA translocation in cohort of patients with Acute Myeloid Leukemia in Sri Lanka- University of Northumbria

### Research Presentations

#### **Abstract Presentation (International conference)**

ASS Alahakoon, HGG Opeshala, SAG Priyadarshani, WMRC Ranasinghe, VA Bodhinayaka and ODK Perera, Identification of Pathogenic Bacteria in Water resources in Colombo District, Sri Lanka, 4<sup>th</sup> CINEC International Research Symposium (CRIS)-2023.

J. Vithushan, H Natasha, B Priyantha, R. Priyantha, R. Wandana, S Edirisinghe and ODK Perera, Investigation of the Antimicrobial Activity of secondary metabolites produced by selected *Aspergillus* species against pathogenic microorganisms, 4<sup>th</sup> CINEC International Research Symposium (CRIS)-2023.

MDIY Mahawatte, SS. Kudagodage, PGNT Rajakaruna, ETDM Weerasinghe, HMPMW Bandara, ODK Perera and VA. Bodhinayaka, Determination of Pathogenic microorganisms in commercially available shawarma food in Colombo District, Sri Lanka, 4<sup>th</sup> CINEC International Research Symposium (CRIS)-2023.

KP Vidanapathirana, DN Rajkumar, N. Karunarathna, S Perera, I shavinka, N Deshan, VA Bodhinayaka and LM Hettihewa, Investigation of the In-vitro Antimicrobial effects of shaving creams and shaving foams available in Sri Lanka against the human natural flora *Staphylococcus aureus*, 4<sup>th</sup> CINEC International Research Symposium (CRIS)-2023.

DIY Mahawatte, SS Kudagodage, PGNT Rajakaruna, ETDM Weerasinghe1, HMPMW Bandara1, ODK

Perera1, VA Bodhinayaka1, Microbiological Quality of Commercially Available Ready-To-Eat Meat Street Food Doner Kebab in Colombo District, Sri Lanka, 16th International Research Conference of KDU 2023. (Paper ID-422).

Poster Presentation

VA Bodhinayaka, HAK Ranasinghe, ODK Perera and S. Kothalawala Diversity of Pathogenic Bacteria in Commercially Available Mango Fruits In Western Province, Sri Lanka. 15 th International Research Conference, General Sri Kothalawela Defence, University, Sri Lanka 2023 (Auother ID- 447).

J Vithushan, VA Bodhinayaka, ODK Perera, Investigation of antimicrobial activity of secondary metabolites produced by selected *Aspergillus* species against pathogenic microorganisms.

International Conference on Medical Sciences (ICM) 2023, Faculty of Medical Sciences, University of Sri Jayewardenepura. (PP-15).

KGYO Vidushani, ODK Perera, and VA Bodhinayaka, Determination of Pathogenic Bacteria in Commercially Available Fresh Green Leafy Vegetables in Western Province, Sri Lanka. 16th International Research Conference of KDU 2023. (Paper ID-427).

R Wlijesooriya, ODK Perera, VA Bodhinayaka, Identification of Pathogenic Bacteria (*Escherichia coli*) in drinking water sources and detection of their antibiotic resistant genes in Gampaha District, Sri Lanka. 16th International Research Conference of KDU 2023. (Paper ID-606)

