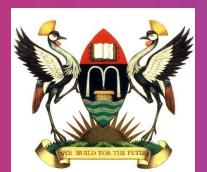
OPERATIONALIZE THE APPLICATION OF 2023 PHAGES FOR MANAGEMENT OF BACTERIAL DISEASES (AEROMONAS HYDROPHILA) IN FISH HATCHERIES IN UGANDA

- Dr. Andrew Tamale (BVM, MVPM, MPH, PhD)
- CARTA ALUMNI
- NEWYORK CARNEGIE POST DOC FELLOW
- LECTURER WAA, SVAR, COVAB, MAKERERE UNIVERSITY







AFER PLANET, PROSPEROUS COMMUNITIES





SUPPORTING EARLY CAREER ACCADEMIC THROUGH POST-DOCTORAL TRAINING AT MAKERERE UNIVERSITY

Presentation Titlet GHLIGHTS

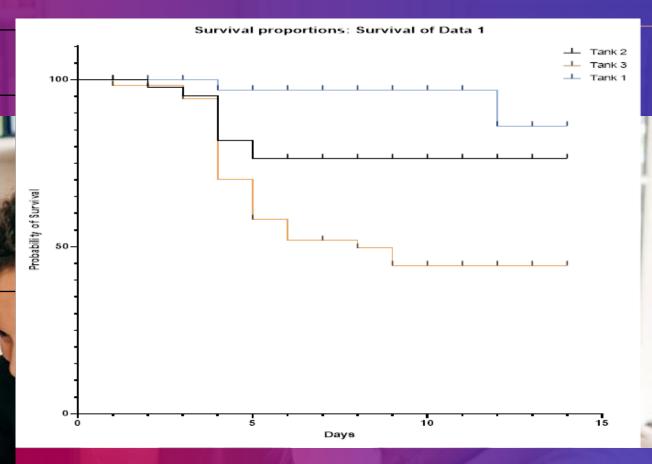
		UNCST)									
		Bulk production of									
		phages and check for		x							Researcher,
		viability at different									
		temperatures of									supervisors
		storage for the									
		phages									
	1.2	Stability and survival		x	x						Researcher, student,
	1.2	of phages in feed									supervisors
<complex-block><complex-block><complex-block></complex-block></complex-block></complex-block>	1.3	Stability and survival		x	x						Researcher, student,
	1.3	of phages in water									supervisors
	1.4	In vitro evaluation of			x	X					Researcher, student,
	1.4	phage activity									supervisors
	2.4	On station evaluation		x	x	X	x	x	x		Mentor, Researcher,
	2.1	of phage activity									Student
		Sensitization				X			X	x	All
	2.2	workshops for									
		relevant stakeholders									
		Statistical analyses			x	x			X	x	Researcher, student,
	2.3	(experiments,									
	2.0	hatchery data,									supervisors
		replicates)									
	2.4	Dissemination		X		X		X		X	All
		Monitoring and				X	X	x	x	x	Head of
	2.5	evaluation	X	X	X						department/Supervis
Presentation Title											or

Execution

Project Objectives

- To determine the effective concentration,
- stability and survival of the phages in the
- environment and feed in water lab tanks
- To evaluate the most effective routed bacteriophage application control *Aeromonas hydrophila* and an in five

To evaluate the effect of phages on disea incidences in fish hatcheries, fish mortalit stability of the phages and occurrence of pathogen in diseased fish and water.



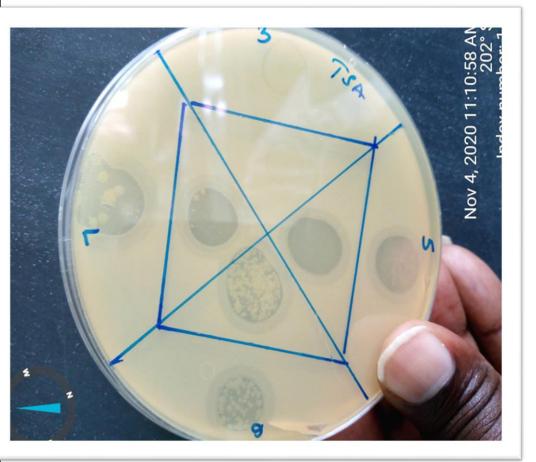
Tank1 Baseline. No phages no *Aeromonas* challenge Tank 2 phages present and *Aeromonas* present Tank 3 *Aeromonas* present and no phages

OPPO A52 2021/04/21 10:08

SECA EVALAUTION AT COVAB

URIT







COLLEGE OF VETERINARY MEDICINE ANIMAL RESOURCES AND BIOSECURITY

"EFFECT OF BACTERIOPHAGES AGAINST *Aeromonas* hydrophila INFECTIONS IN FINGERLINGS AND JUVENILE TILAPIA HELD IN AQUARIA TANKS"

BY

LABALPINY LONNEX DEBESTO (BMLS, MUST)

2019/HD17/23106U

A DISSERTATATION SUBMITTED TO THE DIRECTORATE OF RESEARCH AND GRADUATE TRAINING FOR THE AWARD OF A DEGREE OF MASTER OF SCIENCE IN INTERNATIONAL INFECTIOUS DISEASES MANAGEMENT OF MAKERERE UNIVERSITY

JULY, 2022

Outputs

Manuscripts; One Manuscript has been drafted

Protocol for phage management: the protocols utilized have been standardized and these can be utilized in similar research.

Department equipment through SECA department grant and post graduate grant: A laptop computer, projector, taxiderms and fish lab equipment i.e. Water quality meter, fish tanks were procured. These boost the water lab for teaching and learning

Challenges and solutions

- Covid lock downs
- Time needed between phage development and bulk manufacture
- Delayed release of funds
- Delayed procurement of equipment
- Workload for Teaching at the university
- Msc student availability
- Bioinformatics sequencing of Aeromonas isolates



24th Biennial

evergreen international

Phage Meeting

UAB

Universitat Autònoma de Barcelona

PHAGE

Dissemination





THANKS FOR YOUR TIME AND SUPPORT

