



ONE HEALTH OMICS



NEWTON FUND RESEARCHER LINKS WORKSHOP GRANT

“IT AIMS TO CAPACITATE **FILIPINO RESEARCHERS IN MINDANAO** ON THE RELEVANCE OF **OMICS TECHNOLOGY** IN THE SURVEILLANCE, MANAGEMENT, AND CONTROL OF INFECTIONS IN A **ONE HEALTH SETTING.**”



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ONE HEALTH IN THE ERA OF OMICS TWO (2) DAY WEBINAR SPEAKERS



DR. JAY MICHAEL C. YAP
DIRECTOR, CORE FACILITY FOR BIOINFORMATICS
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DR. HIYAS A. JUNIO
ASSOCIATE PROFESSOR
UP DILIMAN



PROF. MARTIN HIBBERD
CHAIR, EMERGING INFECTIOUS DISEASE
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DR. JODY PHELAN
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PROF. SUSANA CAMPINO
CHAIR, GENOMICS &
INFECTIOUS DISEASE, LSHTM



DR. IAN KIM TABIOS
TRAINING COORDINATOR
UP TRAINS 2, UP MANILA



PROF. MARILEN P. BALOLONG
UNIVERSITY SCIENTIST
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DR. JULIUS HAFALLA
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EXECUTIVE SUMMARY

OMICS TECHNOLOGY IS AN **EMERGING TOOL IN BIOLOGY AND BIOTECHNOLOGY** WHEREIN DIVERSE NEW APPROACHES ARE UTILIZED TO STUDY AND UNDERSTAND BIOLOGICAL SYSTEMS IN LARGE BATCHES OF DATA. THROUGH THE COLLABORATION WITH **LONDON SCHOOL OF HYGIENE & TROPICAL MEDICINE**, FILIPINO RESEARCHERS WILL BE INTRODUCED TO THE POTENTIAL OF USING OMICS TECHNOLOGY IN RESEARCH & DEVELOPMENT.

OBJECTIVES

- > MINDANAO-WIDE DISSEMINATION OF THE POTENTIAL OMICS TECHNOLOGY.
- > EQUIP RESEARCHERS WITH ANALYTICAL TOOLS
- > DEVELOP A REGIONAL NETWORK
- > PROVIDE HANDS-ON TRAINING

HIGHLIGHT EVENTS

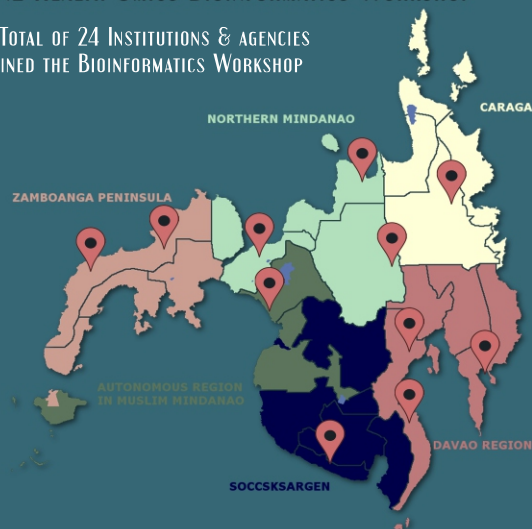
- > TWO (2) DAYS ONLINE WEBINAR ON OCTOBER 4-5, 2021
- > SIX (6) DAYS ONLINE BIOINFORMATICS WORKSHOP ON OCTOBER 11-16, 2021

TITLES OF PRESENTATION FOR THE 2ND MINDANAO-WIDE GENOMICS WEBINAR THEMED "ONE HEALTH IN THE ERA OF OMICS"

- > Using Whole Genome Sequencing to Inform Tuberculosis Epidemiology
- > On the Importance of a Philippine Information Infrastructure for ONE Health in the Era of Omics
- > 'Omics and Informatics for Informing Infection Control
- > High Throughput Genomics Applied to Malaria Epidemiology
- > Using Genomics to Understand *Klebsiella pneumoniae* Antimicrobial Resistance
- > Microbiome and Resistome Profiling of Karst Forest Soil Microbial Communities
- > Integrating Host and Pathogen Genomics for Infectious Diseases
- > Circulating MicroRNAs as Biomarkers for Hepatic Fibrosis in Asian Schistosomiasis
- > 'Omics, Immunogenicity and Vaccine Development
- > How to Find your MS Match: A Metabolomics Tell-Tail
- > Understanding Nosocomial Transmission of Antibiotic-Resistant Pathogens Using Genomic Surveillance

ONE HEALTH OMICS BIOINFORMATICS WORKSHOP

A TOTAL OF 24 INSTITUTIONS & AGENCIES JOINED THE BIOINFORMATICS WORKSHOP



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