



**UNIVERSITY
OF GHANA**



RESEARCH REPORT

2021/2022

ORID

OFFICE OF RESEARCH,
INNOVATION & DEVELOPMENT



TABLE OF **CONTENTS**

FOREWORD

- Vice-Chancellor 1
 - Pro Vice-Chancellor (Research, Innovation and Development) 2
-

RESEARCH PERFORMANCE

- Institutional Ranking 3
 - Publications 4
-

FUNDING

- Major Donor Partners 5
 - Other Donor Partners 6
-

SPECIAL RESEARCH FEATURE

- Multinational Parenteral Rotavirus Vaccine Trial 7
 - Mosquito Ecology Research Targets Malaria Transmission 9
-

ACADEMIC AWARDS

- Sciences 11
 - Humanities 12
-

RESEARCH PROJECTS

- College of Basic and Applied Sciences 13
 - College of Education 17
 - College of Health Sciences 18
 - College of Humanities 20
-

INDUSTRY PARTNERS

22

RESEARCH SUPPORT SERVICES

23

Professor Nana Aba Appiah Amfo **Vice-Chancellor**



The 2021/2022 Annual Research Report catalogues the remarkable contributions made by researchers and scientists here at the University of Ghana to the body of science and advancement of humanity during the year under review.

In accordance with UG's first strategic priority which relates to creating a vibrant intellectual climate that stimulates relevant cutting-edge research and community engagement, UG has been devoted to its research agenda of addressing society's challenges and influencing policy decisions through research over the past 75 years of its existence.

This is evident in the University's rankings from a number of rating agencies which have consistently placed UG as the leading university in Ghana and among the best universities worldwide (details of these rankings have been captured in this publication). This global recognition motivates us to continue to strive for excellence and reinforces our commitment to making a lasting impact on the world through our research endeavours.

As Vice-Chancellor, my overarching plan is to drive the aspirations of UG by creating a culture that promotes research, teaching and learning, administrative processes and extension activities driven by technology and anchored in humanism. This is explicitly captured in the Key Strategic Objectives (KSOs) with the first being "reinvigorating impactful research in the (applied) sciences and humanities".

I wish to commend the Office of Research, Innovation and Development (ORID) for driving the University's research agenda, facilitating multi-disciplinary partnership and enabling creative scholarship.

The University acknowledges the substantial funding received and owes a debt of gratitude to all donor partners and other funders who have supported our research projects over the years without whom we would not have achieved this significant milestone.

As the leading university in Ghana, University of Ghana remains committed to its vision of becoming a world-class research intensive university with a mission of creating an enabling environment which makes UG increasingly relevant to national and global development through research, teaching, learning and community engagement.



Professor Felix Ankomah Asante
Pro Vice-Chancellor
Research, Innovation and Development

The 2021/2022 annual report presents an overview of the University of Ghana's research portfolio and reflects a diverse blend of scholarship which builds our resource capacity.

As a prelude to the 75th anniversary of the University, a year-long program of events was organized, which included public lectures, health and wellbeing programs and charitable activities. In celebrating our sterling record we recognize the role that government, faculty, students, staff, and alumni have played, and look forward to a brighter future.

During the period under review innovation and technology have been a central theme of driving entrepreneurship and complementing our research activity.

The Office of Research, Innovation and Development (ORID) has spearheaded initiatives aimed at nurturing young talent and supporting innovation and entrepreneurship ventures in collaboration with leading industry players. Through our collaboration with industry, UG has established innovation hubs and technology platforms, creating opportunities to unearth young talent.

Amidst a competitive research environment, the University of Ghana was declared the highest ranked tertiary institution in Ghana by the AD Scientific Index World Scientists and University Rankings 2022. Through our research, the University aims to achieve greater impact at home and abroad as we collaborate with international research consortia to find answers to global challenges.

The benevolence of our donor partners has been fundamental in sustaining the conduct of research, and the University of Ghana appreciates the generosity.

Professor Felix A. Asante

Institutional Ranking



WEBOMETRICS RANKINGS

11th
SUB-SAHARAN AFRICA

1st
GHANA

1,121 out of 31,000
HIGHER EDUCATION
INSTITUTIONS



AD SCIENTIFIC INDEX

11th out of 2,049
UNIVERSITIES IN AFRICA

1st
GHANA

1,704 out of 14,284
GLOBAL UNIVERSITIES



THE UNIVERSITY IMPACT RANKINGS

401 - 600th
IMPACT RANKINGS 2023

17th
SSA UNIVERSITY
RANKINGS 2023

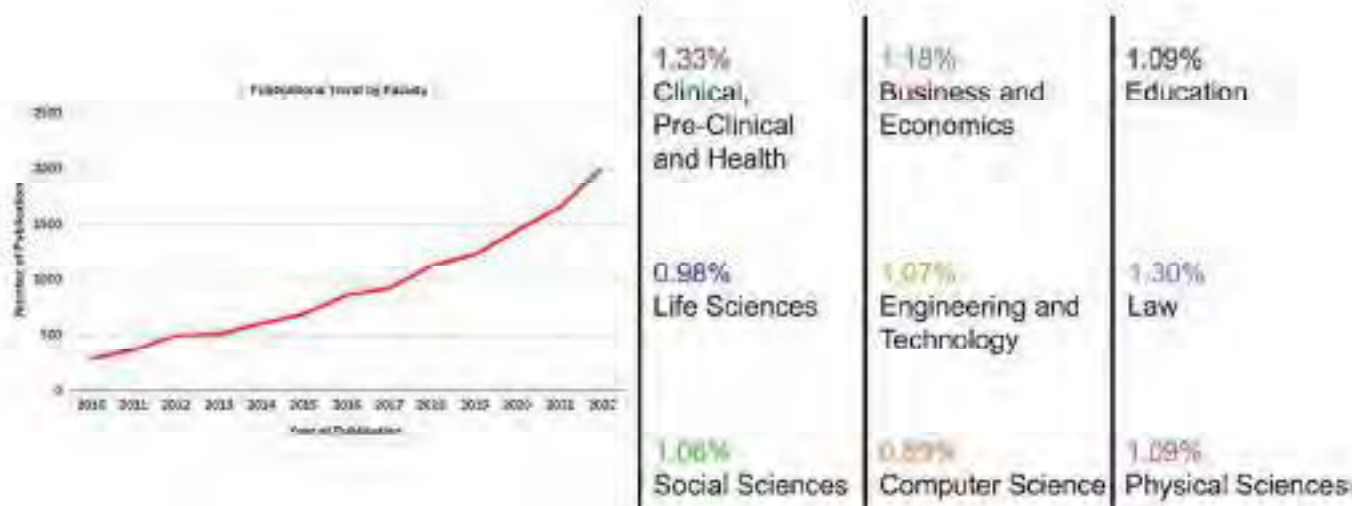
1,001 - 1200th
WORLD UNIVERSITY
RANKINGS 2023



AD SCIENTIFIC INDEX

TOP 20
TOP 20 BEST
UNIVERSITIES IN AFRICA

Publications In Scopus



Selected Performance Indicators of Publications (2018 to 2022)



Major Donor Partners



**Grand Total Awarded
US\$18.3 million**

Other Donor Partners

- Arts and Humanities Research Council
- Ashesi University
- Association of Commonwealth Universities
- British Academy
- British Educational Research Association (BERA)
- Cambridge Africa Partnership for Research Excellence (CAPREx)
- Deutscher Akademischer Austauschdienst German Academic Exchange Service (DAAD)
- Economic and Social Research Council, UK
- Foreign, Commonwealth and Development Office (UK aid)
- French Agricultural Research Centre for International Development (CIRAD)
- German Federal Ministry of Economic Cooperation and Development
- German Research Foundation (DFG)
- Google LLC
- Higher Education Funding Council for England (HEFCE)
- International Covid 19 Data Alliance -ICODA
- International Telecommunication Union
- Leona M. and Harry B. Helmsley Charitable Trust
- Medicines for Malaria Venture ("MMV")
- National Geographic Society (NGS)
- Oppenheimer Generations Foundation
- Research England
 - Social Sciences and Humanities Research Council (SSHRC)
- Society of Exploration Geophysicists, INC (Geoscientists without Borders®)
- State of Israel
- Swiss Innovation Agency (Innosuisse)
- Tides Foundation
- UK Research and Innovation - GCRF
- United Nations Industrial Development Organization (UNIDO)
- US Department of State
- World Academy of Sciences (UNESCO-TWAS)
- Worldwide Universities Network (WUN)

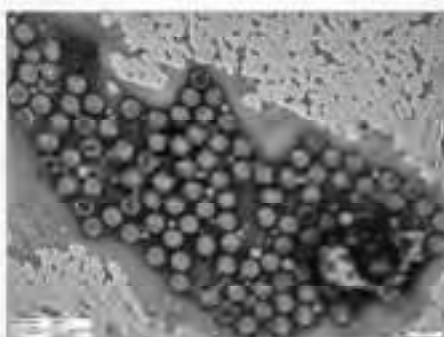
Multinational Parenteral Rotavirus Vaccine Trial in Children at the Shai-Osu Doku District, Accra



Prof. George E. Armah

Diarrhoea is the second-leading cause of death worldwide among children under the age of five, killing an estimated three-quarters of a million children annually and hospitalizing millions more, mostly in developing countries. The most common cause of severe infantile diarrhoea is rotavirus; almost all children are infected with rotavirus before their third birthday regardless of geographic location or economic status. Rotavirus is also responsible for up to 40% of deaths from diarrhoea, resulting in more than 200,000 deaths in children younger than 5 years old globally with 90% of these deaths occurring in the world's poorest countries.

In Ghana, rotavirus is responsible for more than 40% of all diarrhoea hospitalizations with the peak infection occurring during the months of October to February. Rotavirus diarrhoea is the third most common cause of hospitalization in Ghanaian children after pneumonia and malaria.



Rotavirus particles detected in a diarrhoea patient

Children in low-income countries are at greater risk of severe rotavirus disease because they are more likely to be infected earlier in life; access to urgent medical care can be limited or unavailable, and there is a greater prevalence of malnutrition and other co-morbidities. In addition to causing loss of life, rotavirus places a burden on health-care systems and families. Rotavirus infection is primarily acquired through the fecal-oral route. Studies in both developing and developed countries indicate that improved sanitation alone will not control rotavirus infection. Treatment is symptomatic, with an emphasis on maintaining hydration either by oral administration of fluids or, in severe disease, via the intravenous route. Unfortunately, provision of this basic supportive care in many impoverished areas of the world is limited, contributing to the high mortality rate observed.

Vaccination thus offers the best hope for protecting all infants, regardless of economic status, against rotavirus disease. It remains the most effective public health strategy to reduce the burden of severe rotavirus infections. Four vaccines have been licenced by the WHO for use worldwide. More than 80% of countries in Africa have included rotavirus vaccination in their national immunization programme for children. Unfortunately, Oral Rotavirus Vaccines have traditionally shown lower efficacy in low and middle income countries (LMICs) as compared to developed countries (48% vrs 85%).

They have not performed optimally in resource-poor country populations because of believed interference by other viruses, bacteria and other pathogens in the intestine. Additionally, maternal rotavirus antibodies transferred through the placenta (because of the high exposure of the virus in LMICs) during pregnancy contribute to the neutralization of the vaccine, thus impeding the establishment of protective immunity in the children.

Scientific evidence shows that some of these challenges can be obviated by a parenterally administered rotavirus vaccine. One such vaccine, recently developed and certified to be safe in children, is the trivalent P2-VP8 subunit rotavirus vaccine which is being evaluated in a multinational clinical trial in three sites in Africa (Ghana, Zambia and Malawi) with sponsorship from the Bill and Melinda Gates (BMG) Foundation through PATH (Program for the Appropriate Technology in Health). The clinical trial "A double-blind, randomized, active comparator-controlled, sequential, multinational trial" has, as its major objective, the assessment of the safety and efficacy of the trivalent P2 VP8 subunit rotavirus vaccine in the prevention of severe rotavirus gastroenteritis in healthy children. The trial was designed to be conducted in two stages. The first stage involved the enrolment of a total of 3000 infants from Ghana, Malawi and Zambia who were given 3 doses of the trivalent P2-VP8 vaccine or comparator (Rotarix rotavirus vaccine) given at 6, 10 and 14 weeks of age. Participants will then be followed up until they are 2 years old. Stage 2 of the study will involve the increase of enrolment to 8,200 with the inclusion of an additional site in India. However, this will be based on an Interim Futility Analysis which will be conducted per the study objectives when 30 cases of severe rotavirus gastroenteritis have been recorded from all the sites. If futility is met, study will be stopped and not proceed to stage 2. All participants yet to reach 24 months of age will be enrolled into an ancillary observational study and observed until they reach 24 months of age.

A total of 1224 children under six weeks of age from the Shai Osu-Doku District (Asutuare, Bawaleshie, Akumada, Ayikuma, Asebi, Shai Hills, Doryumu, Amrahia, Dodowa Odumase, Kordiabe and Oyarifa) were screened and 1200 enrolled into the study after informed consent had been obtained from their parents and care givers. All the enrolled participants were randomized to receive 3 doses of either the trivalent P2-VP8 vaccine or comparator vaccine Rotarix® at 6, 10 and 14 weeks of age and followed up through 2 years of life. One hundred and twenty four participants who either failed the rigid follow up requirements, had consent to participate in study withdrawn by parents or were lost for follow up, were withdrawn from the study. On August 31 2022, interim analysis showed that futility had been met. At that time the Ghana site had completed enrollment and was in the follow up stage. A total of 1076 (90%) children completed the study, data cleaning and reconciliation is ongoing to allow the inclusion of the cleaned data in the final study data analysis. All participants who had not reached 24 months of age by 31st August 2023 have been enrolled in a follow up ancillary observation study and are being followed until they reach 24 months of age when they will be closed out of the study. We are looking forward to a final study report early next year.



Vaccine being administered



Dr. Fred Aboagye-Antwi

Mosquito Ecology Research Targets Malaria Transmission

A purpose-built modern laboratory for the study of mosquito ecology is in operation at the Department of Animal Biology and Conservation Science, where an innovative method of targeting malaria is being investigated. Dr Aboagye Antwi, Senior Lecturer (Medical Entomology and Parasitology) acting as Principal Investigator is collaborating with scientists at University of Oxford and Keele University in the United Kingdom. The study is supported by Dr. Lucas Among-Etego, West Africa Centre for Cell Biology of Infectious Pathogens (WACCBIP) and Dr. Samuel K. Dadzie and Dr. Jewelna Akorli, Noguchi Memorial Institute for Medical Research (NMIMR), Dr. Benthel Kwansa-Bentum and Dr. Isaac Frimpong Aboagye at the Department of Animal Biology and Conservation Science, and Professor Yaw Asare Afrane of the Department of Medical Microbiology.

The project is a partnership with Target Malaria, a not-for-profit research consortium working to develop sustainable genetic technologies to modify mosquitoes and reduce malaria transmission. The World Malaria Report 2022 states that, in spite of the tremendous progress in reducing the malaria burden around the world since 2015, progress has stagnated in the past few years. The World Health Organization warns that the global response to malaria has reached the “crossroad”, if new tools are not found, key targets of WHO’s global malaria strategy will likely be missed. The Target Malaria consortium consists of 14 academic institutions across the global, collaborating to develop and share new cost-effective and sustainable genetic technologies. The project aims at reducing the population of malaria transmitting mosquitoes in sub-Saharan Africa.

There are three African research/academic institutions on the project located in Burkina Faso, Ghana, and Uganda, and constitute an extension of the parent organization (Target Malaria), hosted at Imperial College – London.

The consortium receives core funding from the Open Philanthropy and the Bill and Melinda Gates Foundation.

Target Malaria is modelled on an innovative methodology aimed at reducing the population of female vector mosquitoes, thus reducing the transmission of the disease. The targeting of malaria transmitting vectors is being implemented against a background of a decline in the effectiveness of current interventions, such as drug treatments, insecticide treated bed nets and indoor residual sprays. Whilst these interventions have helped to lower the burden of malaria, they have not been able to eradicate the disease in many countries.

At the University of Ghana, the mosquito ecology research laboratory is facilitating the work of the team to study the ecological role of malaria transmitting mosquitoes within the ecosystem and to predict the consequence of removing the malaria vector from the ecosystem. The outcome of the research is expected to provide guidance on the viability of deployment of such a method for reducing the population of female mosquitoes. The study sites are, Abutia Amegame and Mafi Agorve in the Volta Region, chosen for the unique mosquito population rather than a mixed populace to allow the study of vector population dynamics and genetics.



Climate chambers

The other aspect of the project, seeks to better understand the biology of the male mosquito to ensure that any modified mosquitoes to be implemented in future would be fit enough to cope with the environmental stresses, outcompete wild males and mate with the wild females to spread the traits of interest to yield the desired effects. It is through this method, that the goal of suppressing the population of the *Anopheles gambiae* mosquitoes could be achieved.

The project comprises two research studies;

Study I: An ecological observatory to study malaria-transmitting mosquitoes

This component describes a work plan to set up and operate an "ecological observatory" to study the ecological consequences of suppressing or eliminating the major mosquito transmitting malaria in Africa.

Study II: Scaling up for rollout: rearing, transport, and release of male mosquitoes (Mosquito rearing and male fitness *Anopheles gambiae* study)

This component of the proposal aims to develop protocols for the rearing, transport, and release of mosquitoes that ensure the gene drive constructs we develop will be introduced into natural populations in an efficient manner. While the outcome of the project will inform our management of modified mosquitoes, **the research is not being done using modified mosquitoes.**

The project offers training opportunities for PhD candidates and is working with the West Africa Centre for Cell Biology of Infectious Pathogens (WACCBIP) and the Noguchi Memorial Institute for Medical Research (NMIMR).



PhD candidates at work in the laboratory

The main objectives are;

- 1) Developing larval rearing conditions that maximize the survival of mass-produced males
- 2) Testing rearing protocols that boost male mating competitiveness and mate choosiness
- 3) Improving methods for packaging, transport, and release of mass-produced males to minimize negative effects on male survival and mating competitiveness

The construction and equipping of the Mosquito Ecology Research facility was funded by the Target Malaria consortium with the support of Open Philanthropy, through Keele University and Oxford University, and is key to the success of the global fight to ease the burden on malaria endemic countries. Funding for the study is from the Open Philanthropy Foundation. The project duration is six years (September 2018 to April 2024) when the funding cycle is scheduled to end. Additional funding will be required to keep the ecology lab functioning to enable scientist scale up their findings and towards the successful implementation of the gene drive vector control approach for effective malaria control.



Pro VC (RID) tours insectary at research facility

Outstanding Doctoral Thesis - Sciences

Awarded to

DR. AFUA ASABEA AMOABENG NTI
School of Public Health



Doctoral Thesis Title:

The effects of Particulate Matter Exposure on Cardiopulmonary Health of Informal E-waste Workers at Agbogbloshie, Accra

ABSTRACT

Background: Air pollution is a serious global public health concern, given its detrimental effects on human health and the environment. According to the World Health Organization (WHO), 91% of all city dwellers in low and middle-income countries (LMIC) are disproportionately exposed to particulate matter (PM) levels exceeding the WHO annual air quality standards. Globally, 7.6% of all global deaths were attributed to air pollution in 2016. Of these deaths, 43% was attributable to chronic obstructive pulmonary disease (COPD), 29% to lung cancer, 25% to ischaemic heart diseases, and 24% from stroke deaths. Various human and animal studies have linked particle air pollution exposure to several cardiopulmonary conditions including nonfatal heart attacks, irregular heartbeat, and aggravated asthma, decreased lung function, and increased respiratory symptoms, such as airway irritation, cough, and difficulty breathing. Informal electronic waste recycling activities are a major contributor to ambient air pollution, yet studies describing the effects of continuous exposure to particulates on cardiopulmonary health among informal e-waste workers are unavailable. Although studies have reported elevated concentrations of PM_{2.5}, PM₁₀, and PM_{10-2.5} in the ambient and personal air samples of e-waste recycling workshops and the breathing zone of e-waste workers, studies on PM exposures and effects on the cardiopulmonary dysfunction of informal e-waste workers are lacking.

Aim: This study did not only assess the effect of PM exposure on the cardiopulmonary health of e-waste waste workers but examined the evidence for improved health via improvements in air quality standards and creation of decent work environment for the informal sector workers as well as contributing to scholarship on the health effects of informal e-waste recycling.

Outstanding Doctoral Thesis - Humanities

Awarded to

DR. SYLVESTER AFRAM BOADI

Department of Geography and Resource
Development



Doctoral Thesis Title:

*Socio-Economic Potential of Agroforestry as an Alternative
Livelihood Strategy for Cocoa Farmers in Ghana*

ABSTRACT

Background: Cocoa (*Theobroma cacao*) cultivation in Ghana is dominated by smallholder farming households who derive most of their incomes from the crop. Currently, climate change is adding to inherent boom-and-bust cycles associated with cash cropping and reducing cocoa yields and household incomes. Current research suggests that cocoa agroforestry practices have the potential to increase the resilience of these farms, offer more stable yields and incomes, and improve plot-level technical efficiency. Despite these, there are few studies with scientifically proven socio-economic models comparing the profitability and technical efficiency of cocoa agroforestry systems to cocoa monocultures.

Aims of study: This thesis thus seeks to evaluate cocoa farmers' current cultivation practices and assess the profitability and technical efficiency of different cocoa systems classified based on the level of tree diversity.

Study methodology: Data were collected through household surveys in 402 cocoa farming households and for 1040 cocoa plots in 12 communities across the Transform, Adjust, and Cope climate impact zones in Ghana for a normal and drought year. The level of vulnerability of these zones to climate risks increases from the Cope to the Transform zone. Additional data were collected using focus group discussion (FGDs), plot visitation and measurements, and field observations. The FGDs are analysed using context analysis techniques and combined with the analysis of the survey data to evaluate farmers' cultivation practices. The policy analysis matrix (PAM) model is applied to compare the financial and economic profitability of the different cocoa systems, and a stochastic frontier analysis is used to assess their technical efficiencies.

Findings and conclusion: This thesis finds that male headed households maintain significantly higher total number of non-cocoa trees per hectare on cocoa plots (9 trees/ha) than female headed households (6 trees/ha). In addition, cocoa farmers enjoy consistent and sustained profit in both normal and drought years if they implemented a more tree diverse cultivation system as opposed to a low tree diverse system. The study findings show that cocoa farmers were producing 22.3% below the levels their current inputs use should yield, and deviations from the optimum production possible were due to factors within farmers' control. Based on these findings, it is recommended that cocoa farmers consider implementing higher tree diversity levels on their plots especially as changes in climate continue to affect the frequency and magnitude of droughts and dry spells, which as demonstrated in this study affects profitability from low tree diversity cocoa plots.

College of Basic and Applied Sciences

FUNDER	UG LEAD	ORIGINATING UNIT	PROJECT TITLE
African Academy of Sciences	Dr. Paulina Tindana	West Africa Centre for Cell Biology of Infectious Pathogens (WACCBIP)	Examining Key Emerging Ethical Issues in the Planning, Review and Implementation of COVID-19 Research in Africa, and the Preparedness and Responsiveness of Research Review Authorities
African Academy of Sciences (AAS)	Dr. Edem Mahu	Department of Marine and Fisheries Sciences	Oyster Shell Models for Hindcasting Holocene Environmental Conditions in Equatorial Atlantic Coastal Waters of Africa
Bill and Melinda Gates Foundation	Dr. Peter Quashie	West Africa Centre for Cell Biology of Infectious Pathogens (WACCBIP)	Using Antibody Technology to Decipher the Immunological Impact of SARS-CoV-2 Variants on Pandemic Control
Bill and Melinda Gates Foundation	Dr. Peter Quashie	West Africa Centre for Cell Biology of Infectious Pathogens (WACCBIP)	Using Antibody Technology to Decipher the Immunological Impact of SARS-CoV-2 Variants on Pandemic Control
British Council	Prof. Frederick Obese	Department of Animal Science	Enhancing Smallholder Dairy Feeding Systems to Improve Productivity and Mitigate Climate Change Impacts in Malawi* - University of Bristol (the University) and University of Ghana
Carnegie Corporation of New York	Prof. Emmanuel Nyarkson	Department of Materials Science and Engineering	Hydrophobic Nano Photocatalyst-Dispersant and Nano Photocatalyst Sorbent Systems for Oil Spill Remediation
Carnegie Corporation of New York	Dr. Nostamle Amisah	Department of Crop Science	CAPREX Supplementary Award
Carnegie Corporation of New York	Dr. Angela Parry-Hanson Kunadu	Department of Nutrition and Food Science	Profiling and Genomic Characterization of Carbapenem Resistance of E. Coli Pathovars in Fresh-Cut Fruits
Carnegie Corporation of New York	Dr. Mary Ghana	Department of Chemistry	Purpose of the Grant- "Purchase Small Equipment and Consumables
Carnegie Corporation of New York	Dr. Richard Osei-Amponsah	Department of Animal Science	Genome Analyses for Sustainable Use and Conservation of the Ashanti Dwarf Pig of Ghana
Carnegie Corporation of New York / University of Cambridge	Dr. Fred Abongye-Antwi	Department of Animal Biology and Conservation Science	Biotic and Abiotic Factors Influencing the Fitness Cost of Plasmodium Falciparum Infections in Anopheles Gambiae S. S.
Carnegie Corporation of New York / University of Cambridge	Dr. Theresa Manful Gwira	West Africa Centre for Cell Biology of Infectious Pathogens (WACCBIP)	CAPREX Small Grants Application

FUNDER	UG LEAD	ORIGINATING UNIT	PROJECT TITLE
Carnegie Corporation of New York / University of Cambridge	Dr. Joseph Okant Hanger	Soil and Irrigation Research Centre (SIREC)	Characterisation of <i>Pectobacterium</i> Species Isolated from Yams in Ghana
Carnegie Corporation of New York / University of Cambridge	Dr. Lydia Masi	Department of Biochemistry, Cell and Molecular Biology	Microbial Profiling of Nose Masks in the COVID-19 Era
Carnegie Corporation of New York / University of Cambridge	Prof. Kwaku Kyeremeh	Department of Chemistry	Ers CAPREx Supplementary Award
Danida Fellowship Centre / INNITI / Kwasir Technologies	Prof. Filibu Kwesi Saalia	Department of Food Process Engineering	Carbon Capture for Microbial Protein Synthesis in Burkina Faso (CAP-BFA)
Erasmus +	Dr. Yaw Agyemang Boatu	Centre for Climate Change and Sustainability Studies	Mobility for Learners and Staff – Higher Education Student and Staff Mobility
Federal Ministry for Economic Cooperation and Development / Deutsche Gesellschaft Für Internationale Zusammenarbeit (GIZ)	Dr. Edem Mahu	Department of Marine and Fisheries Sciences	Mangroves as Nature-based Solutions to Coastal Hazards in Eastern Ghana (MANDOGA) Project
Food and Agriculture Organisation of the United Nations (FAO)	Dr. Gloria Ethel Otoo	Department of Nutrition and Food Science	Food and Nutrition Assessments for School Children in Ghana
Foreign, Commonwealth and Development Office and Wellcome Trust	Prof. Gordon Awandare	West Africa Centre for Cell Biology of Infectious Pathogens	Expansion and Support of SARS-CoV-2 Sequencing in West and Central Africa
Google LLC	Dr. Jamal-Deen Abdulai	Department of Computer Science	Master Sponsored Research Agreement (the "MSRA")
HBNU Focany Global Health Consortium	Prof. Gordon Awandare	West Africa Centre for Cell Biology of Infectious Pathogens	Partnership for Global Health Research Training Program. (5043TW010543-05)
International Atomic Energy Agency ("IAEA")	Dr. John Elebli	West Africa Centre for Crop Improvement (WACCI)	Radiation-induced Crop Diversity and Genetic Associations for Accelerating Variety Development - Mapping of Genetic Associations of Number of Pods Per Plant and Number of Seeds Per Pod in Cowpea
International Development Research Centre (IDRC)	Prof. Kwasi Agyemang Addo	Institute for Environment and Sanitation Studies (IESS)	Coastal Vulnerability in the Ghana Coastlands to Relative Sea-Level Rise
Johns Hopkins University Applied Physics Laboratory LLC through Montana State University	Dr. Richard Dery Suu-Ire	School of Veterinary Medicine	Zoonotic Contact Tracing: Cross-species Contact Tracing for Pandemic Source Attribution
MasterCard Foundation through Kosmos Innovation Centre Foundation LBG	Prof. Irene Egyir	Department of Agricultural Economics and Agribusiness	Implementation of the KIC AgriTech Challenge (Classic and Pro) and Incubation Modules
Medicines for Malaria Venture (MMV)	Dr. Richard Amewu	Department of Chemistry	South African Malaria Drug Discovery (SAMDD) Programme
MMV Medicines for Malaria Venture ("MMV")	Dr. Richard Amewu	Department of Chemistry	Hit Validation of Whole Cell <i>P. falciparum</i> Asexual Blood Stage HTS Actives

FUNDER	UG LEAD	ORIGINATING UNIT	PROJECT TITLE
National Geographic Society (NGS) through University of Massachusetts Amherst	Dr. Allison Felix Hughes	Department of Physics	Making Case for Reducing Air and Noise Pollution in School Environments in Accra, Ghana
National Institute of Mental Health	Prof. Gordon Awandare	West Africa Centre for Cell Biology of Infectious Pathogens	Public Understanding of Big Data in Genomics Medicine in Africa (PUBGEM-Africa)
National Institutes of Health (NIH)	Prof. Gordon Awandare	West Africa Centre for Cell Biology of Infectious Pathogens	HI-GENES Africa: Hearing impairment Genetic Studies in Africa
Norwegian Agency for Development Cooperation (Norad)	Dr. Samuel Addo	Department of Marine and Fisheries Sciences	Capacity Building in Aquatic Animal and Environmental Health in West Africa
Norwegian Agency for Development Cooperation (Norad)	Prof. Chris Gordon	Institute for Environment and Sanitation Studies (IESS)	Building Capacity to Crosslink Coastal Pollution with Climate Change (BC5)
O.R. Tambo Africa Research Chairs Initiative (ORTARCHI)	Prof. Kwesi Saalia	Department of Food Process Engineering	O.R. Tambo Africa Research Chair
Oppenheimer Generations Foundation / Trustee EOSon NFO PTC Limited	Dr. Benedicta Yayra Fosu-Mensah	Institute for Environment and Sanitation Studies (IESS)	Microplastics and Plastic-Derived Chemical Contaminants in Africa: Implication on Human Health and the Loss of Aquatic Biodiversity
PASET Regional Scholarship and Innovation Fund	Dr. Abigail Ampomah Adaku	Department of Agricultural Economics and Agribusiness	Innovating Out of the Urban Street Food Safety Challenges (Urban Safe)
Swiss Innovation Agency (Innosuisse)	Dr. Joycelyn Quansah	Department of Nutrition and Food Science	Fruit to Bar – Innovative Post-Harvest Processing of Depulped Cocoa Beans and Pulp thereof for Single Source Chocolate
The Alexander Von Humboldt Foundation	Dr. Benoit Florent Sehba	Department of Mathematics	The Second German Research Chair in Mathematics and Its Applications
The Government of the United Kingdom (UK Great Britain and Northern Ireland acting / the Foreign, Commonwealth and Development office ("FCDO"))	Prof. Gordon Awandare	West Africa Centre for Cell Biology of Infectious Pathogens (WACCBIP)	Comprehensive National Surveillance for COVID-19 and Building Laboratory Capacity for Sustainable Disease Control in Ghana
The International Development Research Centre (IDRC)	Dr. Dzidzo Yeenya-Tawiah	Institute for Environment and Sanitation Studies (IESS)	Transforming Institutions to Advance Women Leaders in Science Technology Engineering and Mathematics (STEM)
The Society of Exploration Geophysicists, INC (Geoscientists without Borders®)	Dr. Elikplim Able Dzikinoo	Department of Earth Sciences	Provision of Potable Water to Communities in Northeastern Ghana
The Wellcome Trust, UK	Prof. Gordon Awandare	West Africa Centre for Cell Biology of Infectious Pathogens	Cellular Dissection of Plasmodium falciparum Erythrocyte Invasion
The World Academy of Sciences (UNESCO-TWAS)	Dr. Cornelia Applah-Kwarteng	School of Veterinary Medicine	Molecular Comparison of Tichuris sp of Grasscutters, Livestock and Humans in Ghana

FUNDER	UG LEAD	ORIGINATING UNIT	PROJECT TITLE
UK Funding Body – Engineering and Physical Sciences Research Council (EPSRC) and Belmont	Dr. Yaw Agyeman Boateng	Centre for Climate Change and Sustainability Studies	Re-Energize Governance of Disaster Risk Reduction and Resilience for Sustainable Development
UK Research and Innovation + GCRF	Dr. Adelina Mensah	Institute for Environment and Sanitation Studies (IESS)	The COVID Observatories: Monitoring the Interaction of Pandemics, Climate Risks, and Food Systems among the World's Most Disadvantaged Communities
United Nations Industrial Development Organization (UNIDO)	Prof. Kwame Afreh-Nuamah	Forest and Horticultural Crop Research Centre (FOHCRC)	Promoting Public Health and Social Resilience against COVID-19 by Strengthening the Domestic Supply Chain of Personal Protective Equipment under a Circular Economy Approach
USAID	Dr. Yvonne Loh	Department of Earth Science	Global Hunger and Food Security Research Strategy: Climate Resilience, Nutrition and Policy – Feed the Future innovation Lab for Small Scale Irrigation
West African Center for Cell Biology of Infectious Pathogens	Mr. Kwesi Zandoh Tandon	West Africa Centre for Cell Biology of Infectious Pathogens (WACCBIP)	Visiting Research Agreement
World Bank	Dr. Thomas Armah	Department of Earth Science	Partnership Agreement between Challenge Co Ltd. and University of Ghana
World Bank and Others through International Centre of Insect Physiology and Ecology (ICIPE), Kenya	Prof. Irene Egyir	Department of Agricultural Economics and Agribusiness	The Management of Research Support, Innovation and Capacity Building Activities of the Regional Scholarship and Innovation Fund (RSIF) under the Partnerships for Skills in Applied Sciences, Engineering and Technology (PASET) Initiative
Worldwide Universities Network (WUN)	Prof. Kwesi Appaning Addo	Institute for Environment and Sanitation Studies (IESS)	Building Capacity to Monitor and Manage Sargassum Seaweed Inundations in Western Africa (SARCAP)
Worldwide Universities Network (WUN)	Prof. Elsie Effah Kaufmann	Department of Biomedical Engineering	The Design and Development of Appropriate MedTech Products for in-Country Use: A Regional Comparison of West and East Africa



College of Education

FUNDER	UG LEAD	ORIGINATING UNIT	PROJECT TITLE
British Educational Research Association (BERA)	Dr. Eslam Kayi	Department of Distance Learning	Examining the Impact of Blended Learning on Distance Education Learners' Learning Outcomes: Perspectives from Instructors and Learners
Capacity Development Institute	Prof. Michael Tagoe	Department of Adult Education and HR Studies	Capacity (GAP) Assessment Platform Agreement
The British Council through Liverpool John Moores University	Dr. Samuel Ampomah	Department of Distance Learning	THEMIS (Evaluating Gender Equity and Equality in the English Language Teacher Curriculum, ICT Policies and Learning Materials in Botswana, Ghana, Nigeria and South Africa)
UKRI/ERC	Dr. Issahaka Fuseini	Department of Adult Education and HR Studies	(Re)Thinking the off-Grid City 2019: Reimagining Infrastructure: How is Marginalised People's Food and Nutrition Security Shaped by a Continuum of Urban Infrastructure Assemblages?
US Department of State (American Embassy, Accra)	Dr. Abena Yeboah-Banin	Department of Communication Studies	State of the Ghanaian Media Report



College of Health Sciences

FUNDER	UG LEAD	ORIGINATING UNIT	PROJECT TITLE
Bill and Melinda Gates Foundation / Duke University (Duke Global Health Institute)	Prof. Justice Nonvignon	Department of Health Policy, Planning and Management	Laying the Foundation for Development of a Transition's Framework for Key Stakeholders
Bill and Melinda Gates Foundation	Prof. Justice Nonvignon	Department of Health Policy, Planning and Management	Assessing Opportunity Costs of Seasonal Malaria Chemoprevention in SSA
Bill and Melinda Gates Foundation	Prof. Justice Nonvignon	Department of Health Policy, Planning and Management	Cost-Effectiveness of COVID-19 Vaccination Strategies in Ghana and Benin
Bill and Melinda Gates Foundation / Duke University	Prof. Justice Nonvignon	Department of Health Policy, Planning and Management	Developing the Evidence Base to Support Country Transition Planning
Cambridge Africa Partnership for Research Excellence (CAPREx) / Carnegie Corporation of New York	Dr. Jewelina Akorli	Department of Parasitology	Supplementary CAPREx Award
Cambridge-Africa ALBORADA Research Fund	Dr. Prince Asare	Department of Bacteriology	Detailed Characterization of Mycobacterium Bovis of Animal Origin and Tracking of Zoonotic Transmission between Bovine and Human Hosts in Ghana
Cambridge-Africa ALBORADA Research Fund	Dr. Dorotheah Obiri	Department of Immunology	Biomarkers of Placental Dysfunction to Predict Preeclampsia in Women with Sickle Cell Trait and Sickle Cell Disease
Carnegie Corporation of New York / Cambridge Africa Partnership for Research Excellence (CAPREx)	Dr. Beverly Egyir	Department of Bacteriology	Antimicrobial Resistance and Molecular Characteristics of Bacterial Species Recovered from Water for Human Consumption/Use (and Recreation) in Rural and Urban Areas in Ghana
European and Developing Countries Clinical Trials Partnership (EDCTP)	Prof. Dorothy Yeboah-Manu	Department of Bacteriology	Creating A Gender Sensitive Platform for Clinical Research in West African Network for TB, AIDS and Malaria (WANETAM) - TALENT
European and Developing Countries Clinical Trials Partnership (EDCTP)	Prof. Dorothy Yeboah-Manu	Department of Bacteriology	West African Network for TB, AIDS and Malaria (WANETAM 3)
Fleming Fund, UK Department of Health	Dr. Eric Sampson Donkor	Department of Medical Microbiology	One Health Surveillance of AMR in Non-Typhoidal Salmonella, Klebsiella Pneumoniae, and Other Gram-Negative Bacteria
German Research Foundation (Deutsche Forschungsgemeinschaft (DFG))	Dr. John Garba	Department of Population, Family and Reproductive Health	Uneven Geographies of Vaccine Manufacturing in the Global South: Assessing the Relations between Research & Development and Global Equity
Global Fund through the Ghana Health Service	Prof. Kwasi Torpey	Department of Population, Family and Reproductive Health	Integrated Bio-behavioral Surveillance Survey (IBSS) amongst Men who have Sex with Men (MSM) in Ghana

FUNDER	UG LEAD	ORIGINATING UNIT	PROJECT TITLE
Higher Education Funding Council for England (HEFCE) through Edge Hill University	Dr. Benedict Weobong	Department of Social and Behavioural Sciences	Validating Measures for Measures of Alcohol Use and Mental Health: A Study in Ghana
IDRC	Prof. Amos Laar	Department of Population, Family and Reproductive Health	Developing Evidence and Action toward a Double-Duty Food-Based Policy Bundle to Ensure Healthier Diets in Ghana
International COVID-19 Data Alliance - ICODA	Dr. Patricia Akweongo	Department of Health Policy, Planning and Management	Impact of COVID-19 on Health Service Delivery and Institutional Mortality: A Multi-Country Consortium
Mastercard Foundation	Dr. John Ganle	Department of Population, Family and Reproductive Health	Young Africa Works: Disability Inclusion Research Partner
MOTT MACDONALD LTD through London School of Hygiene and Tropical Medicine (LSHTM), UK	Dr. Nicholas Dayie	Department of Medical Microbiology	Fleming Fellowship Grant
National Heart, Lung and Blood Institute under the NIH	Prof. Solomon ofori-Agyaah	Department of Medical Laboratory Sciences	Sickle Cell Genomics Network of Africa (SickleGenAfrica)
National Institute of Health	Dr. Yvonne Dei-Adomakoh	Department of Haematology	Development and Evaluation of Community-Based Approaches and Donor Care Intervention Models for Improving Availability and Safety of Blood for the Management of Severe Anemia in Ghana
National Institute of Health (NIH)	Prof. Mark Tettey	Department of Surgery	AHOMKA: A Culturally-adapted mHealth Platform for Management of Hypertension in an Urban and Rural Region of Ghana
National Institute of Health (NIH)	Prof. Eric Sampene Donkor	Department of Medical Microbiology	Invasive Pneumococcal Disease and Carriage among Children with Sickle Cell Disease in Ghana: A Post-vaccination Study
National Institute of Health	Prof. Kwasi Torpey	Department of Population, Family and Reproductive Health	Survey on Trans Women Project in Greater Accra, Central, Ashanti and Volta Regions of Ghana
New York Genome Centre (NYGC)	Dr. Nicholas Israel Nii Trebi	Department of Medical Laboratory Sciences	Genetic Determinants of Susceptibility to SARS-CoV-2 and Severity of COVID-19 Outcomes Among Ghanaians
NIHR / King's College London of Strand	Dr. Benedict Weobong	Department of Social and Behavioural Sciences	NIHR Global Health Research Group on Interventions for Youth with Depression and Anxiety Disorders in African Countries
Norwegian Agency for Development Cooperation, Norad / the University of Bergen	Prof. Julius Fobi	Department of Biological, Environmental and Occupational Health	Water ESSENCE Africa Creating Synergy to Meet the Global Challenges
Research Council of Norway	Prof. Justice Norvignon	Department of Health Policy, Planning and Management	Supporting Inclusive and Accountable Health Systems Decisions in Ghana and Kenya for Universal Health Coverage (SUPPORT-SYSTEMS)
Rideau Hall Foundation (RHF) Through McGill University	Prof. Richmond Aryeetey	Department of Population, Family and Reproductive Health	Netlinks: An Anglophone-Francophone Network Linking Scholars and Non-Academic Change Agents to Enhance Health Equity and Sustainable Inclusive Growth in Rural West Africa
The Leona M. and Harry B. Helmsley Charitable Trust through Brigham and Women's Hospital	Dr. Leonard Baaloms	Department of Health Policy, Planning and Management	Redesigning Care, Protecting the Vulnerable: Building Universal Access for Type one Diabetes (T1D) and other Severe Chronic Noncommunicable Diseases for the World's Poorest People by 2030
WHO - TDR	Prof. Phyllis Dako-Gyeke	Department of Population, Family and Reproductive Health	2nd Phase of TDR Postgraduate Training Scheme with a Focus on Implementation Research

College of Humanities

FUNDER	UG LEAD	ORIGINATING UNIT	PROJECT TITLE
Agriculture Marketing Group	Dr. George Acheampong	Department of Marketing and Entrepreneurship	Collaboration Agreement for the Purpose of Establishing the University of Ghana Business School (UGBS) Innovation Hub
British Academy	Dr. Joaria Sefu Yendork and Dr. Franklin Giczah	Department of Psychology	Leisure or Livelihoods? A Participatory Study of Youth Perspectives on Gambling and its Social, Economic and Health Impacts in Ghana and Malawi
British Council	Dr. Kobby Mensah	Department of Marketing and Entrepreneurship	Innovation and Youth Entrepreneurship for Sustainable Tourism in Africa
Carnegie Corporation of New York / the University of Pretoria, South Africa	Dr. Ebenezer Amankwa	Department of Geography and Resource Development	Analysing Dynamic Adaptation Strategies of the Urban Poor to Improve Well-being (ADAPT)
Chemonics International Inc.	Dr. Roger Atinga	Department of Public Administration and Health Services Management	Training of Trainers for Supply Chain Management: Northern and Eastern Regions
DANIDA / Danish Institute for International Studies	Prof. Abdul-Gafaru Abdulai	Department of Public Administration and Health Services Management	Energy Struggles: Renewable Energy in Africa
Deutscher Akademischer Austauschdienst German Academic Exchange Service (DAAD) / University of Stuttgart	Prof. Martin Oteng-Akaho	Department of Geography and Resource Development	Sustainable Cities, Circular Economy, Sub Sahara Africa 2024, SuCCESS 24
Economic and social Research Council, UK	Prof. Joseph Teye	Centre for Migration Studies	GCRF Inclusive Societies-Migration for Inclusive African Growth
European Union	Prof. Albert Ahenkan	Department of Public Administration and Health Services Management	Mobility for Learners and Staff - Higher Education and Staff Mobility
Ford Foundation	Prof. Abdul-Gafaru Abdulai	Department of Public Administration and Health Services Management	Political Economy of Oil Resource Distribution and Implications for Persistent Spatial Inequalities in Ghana New African Cities Research Consortium Project
Foreign Commonwealth and Development Office (UK aid) / the University of Manchester	Prof. Abdul-Gafaru Abdulai	Department of Public Administration and Health Services Management	inequalities in Ghana New African Cities Research Consortium Project
International Centre for Migration Policy Development (ICMPD)	Prof. Joseph Teye	Centre for Migration Studies	Action against Trafficking in Persons into, from and within Ghana (AATIP)
International Development Association (the Public Sector Reform Secretariat, office of the Senior Presidential Advisor)	Prof. Justice Owusu	Department of Public Administration and Health Services Management	Consulting Service to Serve as an Independent Verification Agent
International Development Research Centre (IDRC)-Canada	Dr. Edward Asiedu	Department of Finance	Nudging Small and Medium Sized Enterprises in Ghana to Adopt Digital Technologies: Experiments Promoting Inclusive Innovation
International Development Research Centre (IDRC)-Canada	Prof. Peter Quartey	Institute of Statistical, Social and Economic Research (ISSER)	Teacher Capacity Building for Play-based Early Learning in Ghana and Sierra Leone

FUNDER	UG LEAD	ORIGINATING UNIT	PROJECT TITLE
International Telecommunication Union (Geneva, Switzerland)	Dr. Edward Asiedu	Department of Finance	Improving Resilience in Developing Countries: Digital Health Provision through Telemedicine-Ecosystem against Pandemic, Epidemics and Natural Disasters in Sub-Saharan Africa
Ministry of Foreign Affairs of Denmark (Danish Fellowship Centre) / Aarhus University	Dr. George Acheampong	Department of Marketing and Entrepreneurship	Port Effectiveness and Public Cooperation for Competitiveness II (PEPP II)
National Research Foundation (NRF)	Dr. Meame Adwoa Gyekye-Jandoh	Department of Political Science	Developing Resilient African Cities and their Urban Environment Facing the Pro-Vision of Essential Urban SDGs
Research Council of Norway (RCN) / University of Oslo	Prof. Samuel Agyei-Mensah	Department of Geography and Resource Development	Epidemic Traces, Remains of Infectious Disease Control in Africa, and How they Shape Future Health
Research England / University of York	Dr. John Manyimadin Kusimi	Department of Geography and Resource Development	Using Photovoice in Artisanal and Small-Scale Goldmining Communities in Southern Ghana
Russell Hall Foundation (RHF) / the Governors of the University of Calgary	Prof. Mavis Dako-Gyeke	Department of Social Work	Partnering for Innovation in Women-led Social Work and Social Science in West Africa
Social Sciences and Humanities Research Council (SSHRC)	Prof. Joseph Teye	Centre for Migration Studies	Urban Sanctuary, Migrant Solidarity and Hospitality in Global Perspective
The Arts and Humanities Research Council / the University of Exeter	Prof. Kodzo Gavua	Department of Archaeology and Heritage Studies	Imagining Futures through Un/Archived Pasts
The Chancellor, Masters and Scholars of the University of Oxford	Prof. Kodzo Gavua	Department of Archaeology and Heritage Studies	African Cultural Heritage Programms
Tides Foundation / Massachusetts Institute of Technology Research Administration Services	Dr. Edward Asiedu	Department of Finance	Supporting Female Entrepreneurs During a Pandemic: Evidence from a Field Experiment in Ghana
UKRI-BCRF Newborn Fund. / the Chancellor, Master, and Scholars of the University of Cambridge	Prof. Joseph Osafo	Department of Psychology	Psychosocial Effects of the COVID-19 Pandemic on Families with Young Children: A Comparison of Four Middle-income Countries (EBLS-C19)
WASU and German Government	Prof. Joseph Teye	Centre for Migration Studies	Migration and Translocality in West Africa Project (Mitra-WA)
Wellcome Trust / Birkbeck University of London	Dr. Caesar Attane and Dr. Lily Kpodo	Department of Philosophy and Classics	Re-Examining the 'Ghinal' in Ghinal Mental Health: African Understanding of Mental Disorder and Intellectual Disability
World Bank	Dr. Ernestina Dankyi	Centre for Social Policy Studies (CSPS)	Social Protection COVID-19 Responsive System Study
World Health Organisation (WHO)	Prof. Samuel Agyei-Mensah	Department of Geography and Resource Development	To Organize a Conference on the Development of Urban Health Policy Tracking within the Urban Health initiative (UHI) 2021/1168635
World Health Organisation (WHO)	Prof. Samuel Agyei-Mensah	Department of Geography and Resource Development	Urban Health Initiative: Tracking Land-Use Effects on Health in Accra
World Health Organisation (WHO)	Prof. Samuel Agyei-Mensah	Department of Geography and Resource Development	Provision of Logistical and Organizational Support for BreatheLife/Urban Health initiative Regional Workshop for African Cities in June 2022

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