

3.0 LEAD- CHEMPATH



Dr. Emmanuel Timmy Donkoh

Research Interests:

Early diagnosis of cancer in hard-to-reach and marginalized populations using molecular markers of disease: Dr. Emmanuel Timmy Donkoh and his team of experts conduct research on cancer prevention in vulnerable populations such as sex-workers and women living with HIV/AIDS in Ghana. His work helps to make cancer diagnostics more available and accessible to the populations who need it most and in a timely, cost-efficient fashion. His research also allows us to appreciate the molecular epidemiology of cancer-causing infectious agents and the efficacy of vaccines against papillomaviruses (HPV).

Monitoring cardiovascular disease risk in high-risk populations using molecular markers:

Dr. Emmanuel Timmy Donkoh and his research group conducts population-based research to monitor populations for cardiovascular risk factors and generate knowledge that could be used to prevent complications.

Education:

PhD Chemical Pathology

BSc. Biochemistry

Cert. Epidemiology

Cert. Implementation Science

Cert. Project Management

Projects undertaken:

2020-Present: Feasibility and acceptability of genital self-sampling for the diagnosis of female genital schistosomiasis in endemic areas in Ghana.

2018-Present:- Cervical Cancer Screening Options for Adolescent Girls and Attitude To National Primary Prevention Strategy in Brong Ahafo

2014-Present:- Seroprevalence of HSV-1 and HSV-2 Among Women Attending Routine Cervicare Clinics In Ghana

2014-Present:- Assessment of Haemato-Biochemical Indices In Diabetics Mellitus.

2014-Present:- Characterization of HPV Genotypes found among women living with HIV in Ghana

Workshops/conferences/public lectures attended

Donkoh, E. T., (2021). Critical role of clinical laboratories in the COVID-19 pandemic. February 15-17, 2021. International Federation of Clin. Chemistry 2021 Virtual Conference

Owiredu, W. K. B. A., Obirikorang, Chris., Ofori-Boadu, W. I., Boadu, K. O., **Donkoh, E. T.**, (2019). *Association Between Anaemia and Chronic Kidney Disease Among Pre-Dialysis Diabetes Patients in Kumasi, Ghana*. Book of Abstracts 71st AACC Annual Scientific Meeting & Clinical Lab Expo, 4-8 August, 2019, Anaheim, USA

D. A. Berkoh, W. K. B. A. Owiredu, S. F. Gyasi, **E. T. Donkoh**, R. A. Ngala, (2019). *Factors Associated with Compliance Behaviour in a Peri-Urban Diabetic Clinic*

using a Mixed-Methods Approach. Book of Abstracts, 31st Biennial Conference of the Ghana Science Association, Sasakawa Center, University of Cape Coast, 30th July- 2nd August, 2019, Sasakawa Center, University of Cape Coast, Ghana.

Debrah O., Agyemang-Yeboah F., **Donkoh E.T.**, Asmah R.H., Seini M.M., Owusu-Dabo E. (2018). Relationship between cervical epithelial cell abnormalities and co-infection with herpes simplex virus and human papillomavirus among unscreened women in Ghana. Book of Abstract 3rd Global Congress on Vaccine and Vaccinations, 14-15 November, 2018, Roma, Italy, p.28

Debrah O, Agyemang-Yeboah F., Owusu-Dabo E, Asmah R. H, **Donkoh E. T.**, Seini MM, Fondjo L. A. Seroprevalence of HSV-1 and HSV-2 Among Women Attending Routine Cervicare Clinics in Ghana at the 2016 UNESCO-MARS Conference, Addis Abbaba, Ethiopia.

Selected Publications

1. Timmy Donkoh E, Wiredu E. K, Yeboah F. A., Asmah R. H Prevalence of Cervical Cancer and Pre-Cancerous Lesions in Unscreened Women in Kumasi. *Medicine* 2019 98:13.
2. Debrah, O., Agyemang-Yeboah, F., Asmah, R.H., Timmy Donkoh, E., Seini, M.M., Fondjo, L.A. and Owusu-Dabo, E., 2018. SERO-prevalence of herpes simplex virus type 1 and type 2 among women attending routine Cervicare clinics in Ghana. *BMC infectious diseases*, 8(1), p.378.
3. Agyemang-Yeboah, F., Debrah, O., Timmy Donkoh, E., Asmah, R.H and Seini, M.M., 2018. Co-Infection Prevalence of Herpes Simplex Virus Types 1 and 2 with Human Papillomavirus and Associated Risk Factors among Asymptomatic Women in Ghana. *International Journal of Infectious Diseases and Therapy*, 3(3), p.45.

4.0 Ecology Research Group

Lines of research

1. **Ecology and Distribution**
2. **Phenology and Dynamics**
3. **Ecosystem services and ecological function**

Members

1. **Bismark Ofosu-Bamfo (Chief Investigator)** (hyperlink to my bio – www.ofbamlab.wordpress.com or university website bio)
2. **Daniel Yawson (Snr. Lab Technician)**
3. **Kwame Asare Baffour (Research Assistant)**
4. **Isaac Kojo Buabeng (Teaching Assistant)**
5. **Vanessa Ohui Dadebo (Teaching Assistant)**
6. **Isaac Sarkodie (Field Assistant)**
7. **Kwaku Kodom (Tree Spotter)**

Our focus

To conduct largescale study across multiple ecosystem types to establish the ecology and distribution of woody plants in tropical forest ecosystems and how this is affected by climate and land use change.

To set up long term study plot to investigate patterns and drivers of woody plant phenology and forest dynamics in different tropical forest ecosystems.

To assess the extent to which ecological structure translates into function and services and to promote sustainable utilization and conservation of ecosystems.

Grants/Scholarships/Awards

1. July 2021 – International Foundation for Science (IFS) Grant D-6590-1 to investigate Liana community structure in relation to climatic and edaphic factors across five forest ecosystem types in Ghana. Funding amount USD 14511
 - a. Principal Investigator: Bismark Ofosu-Bamfo
 - b. Collaborators: Prof. Patrick Addo-Fordjour, Dr. Ebenezer JD Belford, Prof. Hans Verbeeck, Dr. Sruthi Krishna Moorthy Parvathi
2. March 2021 – The Royal Society of Edinburgh grant award to the African Phenology Network for International networking and research collaboration ahead of COP26.
Collaborators: Dr. Emma Bush (PI, Scotland), Robyn Whytock (Co-PI, Scotland), Bismark Ofosu-Bamfo (Investigator, Ghana), Herve Memiaghe (Investigator, Gabon), Asenath Adiengi (Investigator, Kenya).
3. August 2020 – IdeaWild Equipment Grant: Binoculars (1), GPS eTrex 10 handheld GPS navigator (1) and diameter tapes (2).
4. November 2018 – GNPC Foundation Capacity Development Award (2018 – 2021) towards funding of PhD academic fees.

Collaborations

- KNUST, Kumasi
- African Phenology Network (APN)
- CAVELab UGent
- RGBE, Edinburgh

Contact details

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Other Faculty Members