

# BOAMAH, VIVIAN ETSIAPA DR. (MRS.) NEE ARHIN-SAM

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Pharmaceutical Microbiology Section  
Department of Pharmaceutics  
Faculty of Pharmacy and Pharmaceutical  
Sciences  
Kwame Nkrumah University of Science and  
Technology  
Kumasi, Ghana

## EDUCATION

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**PhD** Kwame Nkrumah University of Science and Technology (KNUST),  
Pharmaceutical Microbiology July 2016  
Dissertation: "Antibiotic use and resistant patterns of *Staphylococcus* species  
and *Escherichia coli* isolates from selected poultry farms in three regions of  
Ghana"  
Mentor: Prof. Dr. Christian Agyare

**MPharm**  
KNUST, Pharmaceutical Microbiology November 2009  
Thesis: "Groundwater quality in three peri-urban communities in Kumasi, and  
the effectiveness of anti-diarrhoeal agents against isolated organisms"  
Advisor: Prof. K. Boakye Yiadom

**BPharm**  
KNUST, Bachelor of Pharmacy May 2005

## HONOURS AND AWARDS

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### Fellowships

**UMAPS Fellow** 2012/13  
African Presidential Scholars Programme, University of Michigan, Ann Arbor,  
Michigan, USA (UMAPS)  
Six months stay at the University of Michigan, Ann Arbor.  
**Mentor – Prof. Betsy Foxman**

**L'Oreal Fellow** 2012  
L'Oreal/UNESCO Fellowship for Women in Science in Sub-Saharan Africa (FWIS-  
SSA), \$ 20,000 – Towards PhD

## Grants

**Programme Book Grant** **2019**  
European Congress of Clinical Microbiology and Infectious Disease (ECCMID) 2019  
in Amsterdam, The Netherlands

**KNUST KReF** **2019**  
KNUST Research Fund (KREF), Gh¢ 30,000.00  
Project title: Cutaneous leishmaniasis in Ghana: Validation of Novel diagnostic  
biomarkers for Vector Incrimination and Determination of Spatio-temporal  
Transmission Dynamics (Co-PI)

**African Union** **2018**  
**Sponsored Participant**, Workshop on Capacity Building Initiative on  
Inclusive/Community-Based Innovation for AU Member States, organized by the  
African Union – Science Technical Research Commission (**AU-STRC**) at the Reiz  
Continental Hotel, Abuja-Nigeria from 10<sup>th</sup> – 12<sup>th</sup> December, 2018

**University of Michigan African Studies Center Travel grant** **2017**  
4<sup>th</sup> Science Technology Engineering Mathematics (STEM) Conference in Yaoundé,  
Cameroon, May 2017

**KNUST KReF** **2016**  
Kwame Nkrumah University of Science and Technology Research Fund (KREF),  
Gh¢ 10,000.00  
Project title: Pharmaceutical excipients from locally manufactured shea butter (Co-  
PI)

**Bosch Travel Grant** **2016**  
EuroScience Open Forum (ESOF) 2016 in Manchester, UK, July 2016

**One Health Central and Eastern Africa (OHCEA) travel grant** **2015**  
2<sup>nd</sup> OHCEA International Conference in Kampala, Uganda, November, 2015

**DANIDA BSU** **2013**  
**Building Stronger Universities (BSU)** - Kwame Nkrumah University of Science  
and Technology Collaboration with Danish International Development Agency  
(DANIDA), Denmark, 2013-2016. \$ 35,000 (PI – PhD Student)

**KNUST KReF** **2012**  
Kwame Nkrumah University of Science and Technology Research and Conference  
grant. Gh¢ 10,000.00  
Project title: Antibiotic resistance in poultry (PI – PhD Student)

## RESEARCH EXPERIENCE

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Antibiotic resistance pattern and the mechanism of resistance of *Escherichia coli*, *Pseudomonas aeruginosa*, *Salmonella typhi* and *Staphylococcus aureus* isolated from poultry litter and farm hands in Ghana, KNUST, Kumasi, Ghana 2016

**Supervisor:** Prof. Dr. Christian Agyare

- Developed concept, designed study, collected samples, carried out experiments, analysed data and drafted manuscript for publication  
Successfully completed a PhD, Produced original research and peer-reviewed publications/PhD Study

Groundwater quality in three peri-urban communities in Kumasi, and the effectiveness of anti-diarrhoeal agents against isolated organisms, KNUST, Ghana 2009

**Supervisor:** Prof. K. Boakye Yiadom

- Skill/Accomplishment/Project: Developed concept and designed study, collected samples, carried out experiments, analysed data and drafted manuscript for publication/Successfully completed a Master of Pharmacy degree, Produced original research and peer-reviewed publication/Master's Degree

**KNUST, Kumasi, Ghana. 2019**

**Co-Principal Investigator**

**PI/Mentor: Dr. Kingsley Badu**

- Designed study, co-ordinated field work and sample collection, carried out supervised PCR experiments and analysed data. At the wrapping up stage of a 12-month project on vector incrimination and biomarker identification in cutaneous leishmaniasis.

**KNUST, Kumasi, Ghana. 2016**

**Co-Principal Investigator**

**PI/Mentor: Dr. Mrs. Yaa Asantewaa Osei**

- Designed study, carried out microbiology experiments and analysed data. / Successfully completed a 12-month project on using locally produced shea butter as an excipient in pharmaceutical preparations.

**University of Copenhagen, Copenhagen, Denmark. 2012-2013**

**Visiting Scientist**

**Advisor/Mentor: Prof. Anders Dalsgaard**

- Designed study, carried out PCR experiments, analysed data, improved presentation and time management skills, worked independently /

Successfully completed a 6-month visiting scholar program, drafted a manuscript for publication.

**University of Michigan, Ann Arbor, USA.**

**2012-2013**

**Visiting Scholar**

**Advisor/Mentor: Prof. Betsy Foxman**

- Designed study, carried out PCR experiments, analysed data, gained presentation/Reference/citation skills, improved time management and worked independently / Successfully completed a 6-month visiting scholar program.

**KNUST, Kumasi**

**2005 to 2014**

**Microbial Analyst**, Department of Pharmaceutics (Microbiology Section)

- Designed and carried out level of contamination and efficacy experiments on herbal medicinal products and other products submitted by the Food and Drugs Authority and individual manufacturers.

**KNUST, Kumasi**

**2005 to 2014**

**Teaching/Research Assistant/Demonstrator**, Department of Pharmaceutics (Microbiology Section)

- Introduced, guided and carried out different microbiology laboratory experiments – to Pharmacy and Herbal Medicine undergraduate students.

## **TEACHING EXPERIENCE**

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**KNUST, Kumasi, Ghana**

**August 2018**

**Senior Lecturer**, Department of Pharmaceutics (Microbiology Section)

- Taught Pharmaceutical Microbiology I and Pharmaceutical Microbiology II, an undergraduate course for Doctor of Pharmacy averaging 350 students per semester, covering the following topics: virology, bacteriophage, transduction, recombination, oncogenic viruses, principles of disinfection, dynamics of disinfection, disinfectant groups, preservative groups and dynamics of preservation, antibiotic groups, biochemical reactions, assay of antibiotics, evaluation of disinfectants and antimicrobial agents, identification of bacteria, sterile products manufacture and sterility testing.
- Taught Microbiology I and Microbiology II, an undergraduate course for Bachelor of Herbal Medicine students averaging 40 students per semester, covering the following topics: culture media, microbial contamination, staining techniques, enumeration of bacteria, assessment of herbal products, basic virology, principles of disinfection, dynamics of disinfection, disinfectant groups, preservative groups and dynamics of preservation.
- Taught Immunology, an undergraduate course for Doctor of Pharmacy averaging 350 students per semester and Bachelor of Herbal Medicine

students averaging 40 students per semester, covering the following topics: adverse immune responses, hypersensitivity reactions with specific examples, transplant immunity and anti-immunity.

- Taught Pharmaceutical biotechnology and molecular biology, an undergraduate course for Doctor of Pharmacy averaging 350 students per semester, covering the following topics: DNA manipulation, Polymerase chain reaction, cloning and gene therapy.
- Taught Chemotherapy, an undergraduate course for Doctor of Pharmacy averaging 350 students per semester, covering the following topics: anti viral agents, classes of antiviral agents, side effects, uses and dosage requirements.
- Taught Infections, antibiotics and drug resistance, a graduate course for PhD/MPhil (Pharmaceutical Microbiology) and MSc (Pharmaceutical Technology) averaging 12 students per semester, covering the following topic: overview of infectious diseases.
- Taught Advanced Sterilization, Disinfection and Sterile product Manufacture, a graduate course for PhD/MPhil (Pharmaceutical Microbiology) and MSc (Pharmaceutical Technology) averaging 12 students per semester, covering the following topic: Sterilization and disinfection.
- Taught Pharmaceutical Biotechnology, a graduate course for PhD/MPhil (Pharmaceutical Microbiology) and MSc (Pharmaceutical Technology) averaging 12 students per semester, covering the following topic: DNA extraction, purification and quantification, restriction endonucleases, polymerase chain reaction, restriction digestion and gene therapy.
- Taught Immunology and Immuno-therapeutics, a graduate course for PhD/MPhil (Pharmaceutical Microbiology) averaging 4 students per semester, covering the following topic: adverse drug responses, adverse immune reaction.
- Developed quizzes, exams, and laboratory and class exercises
- Coordinated grading and labs with a team of 4 teaching assistants

**Madonna University**, Elele Campus, Rivers State, Nigeria

May 2016 to June 2018

**Visiting Senior Lecturer**, Department of Pharmaceutics, Faculty of Pharmacy

- Taught Pharmaceutical Microbiology, an undergraduate course for Bachelor of Pharmacy averaging 100 students per semester, covering the following topics: sterile products manufacture and sterility testing.
- Taught Immunology, an undergraduate course for Bachelor of Pharmacy averaging 100 students per semester, covering the following topics: basics of immunity, antibodies, adverse immune responses, hypersensitivity reactions with specific examples.
- Developed quizzes, tests and exams.
- Carried out laboratory exercises on sterility testing.
- Coordinated grading and assessment of students.

**KNUST**, Kumasi, Ghana

April 2014 to July 2018

**Lecturer**, Department of Pharmaceutics (Microbiology Section)

- Taught Pharmaceutical Microbiology I and Pharmaceutical Microbiology II, an undergraduate course for Bachelor of Pharmacy averaging 150 students per semester, covering the following topics: virology, bacteriophage, transduction, recombination, oncogenic viruses, principles of disinfection, dynamics of disinfection, disinfectant groups, preservative groups and dynamics of preservation, antibiotic groups, biochemical reactions, assay of antibiotics, evaluation of disinfectants and antimicrobial agents, identification of bacteria, sterile products manufacture and sterility testing.
- Taught Microbiology I and Microbiology II, an undergraduate course for Bachelor of Herbal Medicine students averaging 40 students per semester, covering the following topics: culture media, microbial contamination, staining techniques, enumeration of bacteria, assessment of herbal products, basic virology, principles of disinfection, dynamics of disinfection, disinfectant groups, preservative groups and dynamics of preservation.
- Developed quizzes, exams, and tests
- Revised the syllabus during the conversion of Bachelor of Pharmacy to Doctor of Pharmacy degree.
- Revised microbiology and molecular microbiology laboratory manuals to meet accreditation standards
- Coordinated grading and labs with a team of 4 lecturers and 3 teaching assistants.

#### **Doctoral Students Advised**

Boateng, F. O., Antimicrobial and wound healing activities of *Ricindendron heudelottii*. (On-going)

Apenteng, J. A., "Isolation and characterization of anti-infective agents from marine macro algae", (On-going)

Appiah, T., "Isolation and characterization of anti-infective compounds from selected mushrooms", July 2017.

#### **Masters Students Advised**

Yeboa, C., Bacterial co-infections in cutaneous leishmaniasis wounds and their resistance patterns. (On-going).

Aglomasa, B. C., Effectiveness of selected medicinal plants against multi-drug resistant bacteria isolated from filariasis wounds. (On-going).

Obeng-Mensah, D. Antibiotic Resistance of Enteric bacteria in HIV-positive patients at KATH in Ghana. (On-going)

Sarpong, A. K., "Vulvovaginal candidiasis risk factors and resistance of *C. albicans* to antifungal agents", July 2020.

Baidoo, E. A., "Resistance of *K. aerogenes* among health facilities in Kumasi", August 2019.

Kontoh, D., "Identification and characterisation of polycarbon degrading bacteria", August 2019.

Zumbi, C. N., "Resistance mechanisms in MRSA and MDR *S. typhi* from Kumasi hospitals", February 2019.

Amiteye, D., Antimicrobial-producing microorganisms isolated from water bodies, sea and lagoon. November 2018.

Boateng, F. O., "Microbial quality of water used on poultry farms in Ashanti region", June 2018.

Odoi H., "Characterization of multi-drug resistant *Pseudomonas aeruginosa* isolated from clinical, environmental and poultry sources in the Ashanti region of Ghana", November 2016.

Successfully supervised 37 Doctor of Pharmacy, Bachelor of Pharmacy and Bachelor of Herbal Medicine undergraduate students' projects since 2012.

**KNUST**, Kumasi, Ghana

September 2010 to April 2014

**Assistant Lecturer**, Department of Pharmaceutics (Microbiology Section)

- Taught Pharmaceutical Microbiology I and Pharmaceutical Microbiology II, an undergraduate course for Bachelor of Pharmacy averaging 150 students per semester, covering the following topics: Biochemical reactions, assay of antibiotics, evaluation of disinfectants and antimicrobial agents, identification of bacteria, sterile products manufacture and sterility testing.
- Taught Microbiology I and Microbiology II, an undergraduate course for Bachelor of Herbal Medicine students averaging 40 students per semester, covering the following topics: culture media, microbial contamination, staining techniques, enumeration of bacteria, assessment of herbal products, basic virology, principles of disinfection, dynamics of disinfection, disinfectant groups, preservative groups and dynamics of preservation.
- Developed quizzes and tests
- Coordinated grading and labs with a team of 3 lecturers and 3 teaching assistants.

**KNUST**, Kumasi, Ghana

September 2006 to Aug 2010

**Demonstrator**, Department of Pharmaceutics (Microbiology Section)

- Introduced and guided Pharmacy and Herbal Medicine undergraduate students through Microbiology Laboratory work.
- Developed quizzes, tests and assignments.
- Coordinated marking and grading of labs with a team of 3 teaching assistants

**KNUST**, Kumasi, Ghana

September 2005 to Aug 2006

**Teaching Assistant**, Department of Pharmaceutics (Microbiology Section)

- Introduced and guided Pharmacy and Herbal Medicine undergraduate students through Microbiology Laboratory work.
- Developed quizzes, tests and assignments for the laboratory exercises.
- Coordinated marking and grading of labs with a team of 2 teaching assistants

#### **OTHER WORK EXPERIENCE**

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Intern Pharmacist, Komfo Anokye Teaching Hospital

2005 – 2006

Intern Pharmacist, Juliponia Pharmacy, Kumasi

2005 - 2006

#### **Supervising Pharmacist**

Dannipharma, Kumasi

2007

Habmay Pharmacy Annex, Kumasi

2008 – 2012

Kasafam limited, Kumasi

2014 – 2018

Adams Pharmacy, Anwia Nkwanta

2019

- Counseled patients on various health issues presented
- Diagnosed and treated uncomplicated diseases
- Management of a Pharmacy premises and business.

#### **PUBLICATIONS**

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##### ***H-index:***

**Google Scholar:** H-index of 10, i10 index of 12 with 398 citations at

<https://scholar.google.com/citations?user=ZWfmzZQAAAAJ&hl=en&authuser=2>

**Research gate:** Score of 16.87, H index of 11 with 338 citations at

[https://www.researchgate.net/profile/Vivian\\_Boamah](https://www.researchgate.net/profile/Vivian_Boamah)

**Scopus:** H index of 5 with 86 citations at

<https://www.scopus.com/authid/detail.uri?authorId=37116415100>

**Orcid ID:** <https://orcid.org/0000-0003-1931-693X>



## **Book Chapter**

Agyare, C., **Boamah, V. E.**, Zumbi, C. N. and Osei, F. B. Antibiotic use in poultry production and its effect on bacterial resistance In: Kumar, Y. (Editor), "Antimicrobial Resistance – A Global Threat", InTech Open Science, 2018.

## **Journal Publications**

- Fondjo, L. A, **Boamah, V. E.**, Fierti, A., Gyesi, D., Owiredu, E. W. (2019). Knowledge of preeclampsia and its associated factors among pregnant women; a possible link to reduce related adverse outcomes. *BMC Pregnancy and Childbirth*, 19(456); 1-7.
- Salihs, S. A., Forkuor, J. B., **Boamah, V. E.** (2019). Post birth challenges among working mothers in a higher educational Institute in Ghana: Implications for occupational competitiveness of working mothers. *International Journal of Social Science Studies*, 7(6); 1-10.
- Borquaye, L. S., Ekuadzi, E., Darko, G., Ahor, H. S., Nsiah, S. T., Lartey, J. A., Mutala, A. H., Boamah, V. E., Woode, E. Occurrence of antibiotics and antibiotic resistant bacteria in landfill sites in Kumasi, Ghana. *Journal of Chemistry*, 2019, pp. 1 – 10.
- Osei, F. B, **Boamah, V. E.**, Agyare, C., Abaidoo, R. C. Physicochemical Properties and Microbial Quality of Water Used in Selected Poultry Farms in the Ashanti Region of Ghana. *The Open Microbiology Journal*, 13: 2019, pp. 121 – 127.
- Adu, F., Boakye, Y. D., Agyare, C., Sam, G. H., **Boamah, V. E.**, Osei, F. B. Antibacterial resistance modulatory properties of selected Ghanaian plants. *African Journal of Pharmacy and Pharmacology*, 13(5): 2019, pp. 57-69.
- Adu, F., Agyare, C., Sam, G. H., Boakye, Y. D., **Boamah V. E.** Anthelmintic resistance modifying properties of extracts of *Cyperus difformis* L. (Cyperaceae). *Investigational Medicinal Chemistry and Pharmacology*, 1(1):3, 2018, pp.6.
- Amengor C. D., Adu K. J., Ayensu I, Boakye Y. D., Yakubu J., **Boamah V. E.**, Agyare C., Boateng J., Dobbs A. Antimicrobial, antioxidant and anti-inflammatory activities of synthesised 1,2,3-triazoles. *Investigational Chemistry and Pharmacology*, 1(1):8, 2018, pp. 10.

- Appiah T., Agyare C., Luo Y., **Boamah, V. E.**, Boakye, Y. D. Antimicrobial and Resistance Modifying Activities of Cerevisterol isolated from *Trametes* Species, *Current Bioactive Compounds*, 14:1, 2018, pp. 1-9.
- Agoba, E. E., Adu, F., Agyare C., **Boamah, V. E.**, Boakye, Y. D. Antibiotic resistance patterns of bacterial isolates from hatcheries and selected fish farms in the Ashanti region of Ghana, *Journal of Microbiology and Antimicrobials*, Vol. 9(4), 2017, pp. 35-46.
- **Boamah, V. E.**, Agyare, C., Odoi, H., Adu, F., Gbedema, S. Y., Dalsgaard, A. Prevalence and antibiotic resistance of coagulase-negative *Staphylococci* isolated from poultry farms in three regions of Ghana. *Infection and Drug Resistance*, 10: 2017, pp. 175-183.
- **Boamah, V. E.**, Agyare, C., Odoi, H., Boakye Donkor, Y., Dalsgaard, A. Antibiotic practices and factors influencing the use of antibiotics in selected poultry farms in Ghana, *Journal of Antimicrobial Agents*, 2(2): 2016, pp. 1-16.
- Boadu, R.F., Agyare, C., Adarkwa-Yiadom, M., Adu, F., **Boamah, V.E.** Boakye, Y. D. *In vitro* activity and evaluation of quality of some selected penicillins on the Ghanaian market using developed HPLC methods. *Medicinal Chemistry*, 5(1): 2015, pp. 1 - 14.
- Adu, F., Sam, G.H., Agyare, C., Apenteng, J.A., **Boamah, V.E.**, Mintah, D.N. Influence of methanol fruit and leaf extract of *Myristica fragans* (Myristaceae) on activity of some antibiotics. *African Journal of Microbiology Research*, 8(19): 2014, pp. 1982-1986.
- Saana, S.B.B.M., Adu, F., Agyare, C., Gbedema, S.Y., **Boamah, V. E.**, George, D. F. Antibiotic resistance patterns of strains of *Staphylococcus aureus* isolated from patients in three hospitals in Kumasi, Ghana. *Journal of Bacteriology Research*, 5(3), 2013, pp. 35-40.
- George, D.F., Gbedema, S.Y., Agyare, C., Adu, F., **Boamah, V.E.**, Tawiah, A.A., Saana, S.B.B.M. Antibiotic resistance patterns of *Escherichia coli* isolates from hospitals in Kumasi, Ghana. *ISRN Microbiology*, 2012, pp. 1-5
- Tawiah, A. A., Gbedema, S. Y., Adu, F., **Boamah, V. E.**, Annan, K. Antibiotic producing microorganisms from River Wiwi, Lake Bosomtwe and the Gulf of Guinea at the Doakor Sea Beach, Ghana. *BMC Microbiology* 12:234, 2012, pp. 1-8
- Agyare, C., Kuffuor, G.A., **Boamah, V.E.**, Adu, F., Mensah, K.B., Adu-Amoah, L. Antimicrobial and anti-inflammatory activities of *Pterygota macrocarpa* and

*Cola gigantea* (Sterculiaceae). Evidence-Based Complementary and Alternative Medicine, 2012, pp. 1-9

- Adu F., Gbedema S.Y., Akanwariwiak W. G., Annan K., **Boamah V.E.** The Effects of *Acanthospermum hispidum* extract on the antibacterial activity of amoxicillin and ciprofloxacin. Hygeia Journal for Drugs and Medicine. 2(1), 2011, pp. 58-63.
- Asantewaa, Y., Ofori-Kwakye, K., Kipo, S. L., **Boamah, V. E.**, Johnson, R. Investigation of the emulsifying and suspending potential of cashew tree gum in pharmaceutical formulations. International Journal of Pharmacy and Pharmaceutical Sciences, 3(4), 2011, pp. 215-219.
- **Boamah, V. E.**, Gbedema, S. Y., Adu, F. , Ofori-Kwakye K. Microbial quality of household water sources and incidence of diarrhea in three peri-urban communities in Kumasi, Ghana. Journal of Pharmaceutical Sciences and Research, 3(3), 2011, pp. 1087-1092.
- F. Adu, S. Y. Gbedema, P. Brown, K. Annan, **Boamah, V. E.** Antimicrobial and free radical scavenging activity of *Duranta Plumieri* L., International Journal of Pharmaceutical Sciences and Research, 2(2), 2011, pp. 282-287.
- Stephen Y. Gbedema, Francis Adu, Marcel T. Bayor, **Vivian E. Arhin-Sam**, Kofi Annan. In vitro antimicrobial study of the efficacy of a toothpaste formulated from *Garcinia cola* stem wood extract. International Journal of Pharmacy and Pharmaceutical Sciences. 2(2), 2010, pp. 98-101.

### ***Journal Papers in Review***

- Zumbi, C. N., **Boamah, V. E.**, Boakye, Y. D., Agyare, C. “Prevalence and Antibiotic Resistance Mechanisms of Methicillin-Resistant *Staphylococcus aureus* isolates from Selected Hospitals in Ashanti Region, Ghana”. Submitted to: Infection and Drug Resistance.
- Osei, F. B, **Boamah, V. E.**, Agyare, C., Abaidoo, R. C. “Resistance pattern of bacterial isolates from drinking water used for poultry production in Ashanti region of Ghana”. Submitted to: International Journal of Microbiology.

## Conference Papers

### Abstract-Reviewed

#### Oral Presentations

- Osei, F. B., **Boamah, V. E.**, Agyare, C., Abaidoo R. (2018). Quality of water used on selected poultry farms in the Ashanti region of Ghana. 7<sup>th</sup> Ghana Science Association (GSA) Research Seminar & Poster Presentations, KNUST, Kumasi-Ghana, 18<sup>th</sup> April, 2018. Abstract number O-12.
- Odoi, H., **Boamah, V. E.**, Agyare, C. (2017). Prevalence and antibiotic resistant genes of *Pseudomonas aeruginosa* isolates from clinical and environmental samples from the Ashanti region, Ghana. VII International Conference on Environmental, Industrial and Applied Microbiology – (BioMicroWorld 2017), Complutense University of Madrid Madrid, Spain. Abstract 286.
- **Boamah, V. E.**, Agyare, C., Odoi, H., Dalsgaard, A. (2017), Phenotypic and genotypic antibiotic resistance profiles and plasmid characterisation of *Escherichia coli* isolated from poultry farms in Ghana, 4<sup>th</sup> Science Technology Engineering Mathematics (STEM) Conference, Yaoundé, Cameroon May 29 - June 2, 2017.
- Boadi, M., Gbedema, S.Y., Adu, F., Agyare, C., **Boamah, V. E.** (2016). Antimicrobial properties of microorganisms isolated from soil, sea and the Kakum River. Ghana Biochemical Convention, University of Health and Allied Sciences, Ho, Ghana, 2<sup>nd</sup> to 4<sup>th</sup> August, 2016. Abstract number 5.
- **Boamah, V. E.**, Agyare, C., Odoi, H., Adu, F., Gbedema, S. Y., Dalsgaard, A. (2016). Prevalence and antibiotic profiles of coagulase-negative Staphylococci (CNS) isolated from poultry farms in Ghana. IV International Conference on Antimicrobial Research- ICAR2016, Torremolinos, Malaga, Spain, 29<sup>th</sup> June-1<sup>st</sup> July, 2016. Abstract number 228.
- **Boamah, V.E.**, Agyare, C., Odoi, H. (2015). Antibiotic resistance profiles and prevalence of extended spectrum beta lactamases (ESBIs) among *Escherichia coli* isolated from poultry litter and poultry farmers in three regions of Ghana. 2<sup>nd</sup> OHCEA International One Health Conference, Strategic Approach to Global Health Security through one Health Innovations: Vision 2035. Speke Resort, Munyonyo, Kampala, Uganda, 16<sup>th</sup> – 18<sup>th</sup> November, 2015. Abstract number 8.001.
- **Boamah, V. E.**, Agyare, C. and Odoi, H. (2015). Factors influencing farmers' choice of antibiotics for use on poultry farms in three regions of Ghana. 5<sup>th</sup> Ghana Association of Biomedical Laboratory Scientists, Ashanti Region

Branch Annual Regional Congress and Scientific Conference, College of Engineering Auditorium, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana, 8<sup>th</sup> October, 2015. Abstract No. 4.

- **Boamah, V. E.** (2015). Antibiotic practices among poultry farms in three regions of Ghana – A survey. Pharmacy Graduate Students' Week. Faculty of Pharmacy and Pharmaceutical Sciences, KNUST, Kumasi. Theme: From Compound to Medication: the role of research, 26<sup>th</sup> – 28<sup>th</sup> January, 2015. (1<sup>st</sup> runner up Oral Presenter)
- Agyare, C., Appiah, T., **Boamah, V. E.**, Adu, F. (2014). Antimicrobial activity of two wood decaying fungi. Session Lectures, 6<sup>th</sup> International Conference on Drug Discovery and Therapy, Dubai Women's College, Dubai, United Arab Emirates (U.A.E.), 10<sup>th</sup> to 12<sup>th</sup> February, 2014. Abstract SL 104.
- **Boamah, V. E.** and Agyare, C. (2013). Antibigram profiles of bacteria isolated from poultry farms in the Ashanti Region, Ghana. 5<sup>th</sup> Annual Scientific Meeting, College of Health Sciences, CCB Auditorium, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana, 14<sup>th</sup> - 15<sup>th</sup> November, 2013. Abstract number: B62.
- **Boamah, V.E.**, Agyare, C., Foxman, B. (2013). Vitek-II antibiotic sensitivity testing of identical genotypes of bacteria isolated from poultry farms in Ashanti region, Ghana. 5<sup>th</sup> Annual Scientific Meeting, College of Health Sciences, CCB Auditorium, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana, 14<sup>th</sup> -15<sup>th</sup> November, 2013. Abstract number: B16.
- Appiah, T., Agyare, C., **Boamah, V. E.**, Adu, F. (2013). Antimicrobial activity of two wood decaying fungi. 5<sup>th</sup> Annual Scientific Meeting, College of Health Sciences, CCB Auditorium, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana, 14<sup>th</sup> -15<sup>th</sup> November, 2013. Abstract number: A15.
- Agyare, C., Ugbooduma, A.O., Adu, F., Gbedema, S.Y., Annan, K., **Boamah, V.E.**, Agyepong, N. (2012). Antimicrobial activities of methanol extracts of *Entandrophragma angolense* stem bark. 5<sup>th</sup> Western Africa Network of Natural Products Research Scientists (WANNPRES) and AAMPS Ethnoveterinary Symposium, Ada, Osun State, Nigeria, 6<sup>th</sup> - 9<sup>th</sup> August, 2012. Abstract number SL 28.
- Gbedema, S.Y., Agyepong, N., Agyare, C., Adu, F., **Boamah, V.E.**, Ugbooduma, A.O. (2012). Antimicrobial and antioxidant activities of ethanol

extract of *Clausena anisata* Wild Hooke. 5<sup>th</sup> Western Africa Network of Natural Products Research Scientists (WANNPRES) and AAMPS Ethnoveterinary Symposium, Ada, Osun State, Nigeria, 6<sup>th</sup> - 9<sup>th</sup> August, 2012. Abstract number PO 12.

- Ugboduma, A., Adu, F., Agyare, C., Gbedema, S.Y., Annan, K., **Boamah, V.E.**, Agyepong, N. (2012). Antioxidant and wound healing properties of methanol stem bark extract of *Entandrophragma angolense* (Welw.) C.DC. 5<sup>th</sup> Annual Conference of Ghana Biomedical Convention, Noguchi memorial Institute for Medical Research, University of Ghana, Legon, Accra, 30<sup>th</sup> July- 1<sup>st</sup> August, 2012. Abstract 43
- Adu, F., Gbedema, S. Y., Annan, K., **Arhin-Sam, V. E.**, Tawiah, A. A., Sanaa, S. B. B. M, George, D. F., (2010). The effects of the alcoholic extracts of *Acanthospermum hispidum* on the antimicrobial efficacy of some antibiotics. Proceedings of the 4<sup>th</sup> Scientific Meeting of the Western Africa Network of Natural Products Research Scientists (WANNPRES). 4<sup>eme</sup> Rencontre Scientifique Sous-Regionale, Ouagadougou, Burkina Faso. Abstract number
- Adu F., Gbedema, S. Y., Annan, K., **Arhin-Sam, V. E.** (2010). The effects of *Myristica fragrans* leaf extract on the antibacterial activity of Ciprofloxacin and Amoxicillin. Proceedings of the 4<sup>th</sup> Scientific Meeting of the Western Africa Network of Natural Products Research Scientists (WANNPRES). 4<sup>eme</sup> Rencontre Scientifique Sous-Regionale, Ouagadougou, Burkina Faso. Abstract number

#### **Abstract-Reviewed (Poster presentations)**

- Osei, F. B., **Boamah, V. E.**, Agyare, C., Abaidoo R. (2018). Quality of water used on selected poultry farms in the Ashanti region of Ghana. 29<sup>th</sup> European Congress of Clinical Microbiology and Infectious Diseases (ECCMID) Amsterdam, Netherlands, 13<sup>th</sup> – 16<sup>th</sup> April, 2019. Presentation number 1228.
- Agoba, E. E., Agyare, C., Adu, F., **Boamah, V. E.** (2016). Antibiotic use and practices on fish farms in the Ashanti region of Ghana. 9<sup>th</sup> Ghana Biochemical Convention, University of Health and Allied Sciences, Ho, Ghana, 2<sup>nd</sup> to 4<sup>th</sup> August, 2016. Abstract 705.
- Agoba, E. E., Agyare, C., Adu, F., **Boamah, V. E.** (2016). Multidrug resistant bacterial isolates from hatcheries and integrated fish farms in the Ashanti region. Ghana 9<sup>th</sup> Biochemical Convention, University of Health and Allied Sciences, Ho, Ghana, 2<sup>nd</sup> to 4<sup>th</sup> August, 2016. Abstract 706.

- Olarbi, A. A., Bekoe, E. O., Agyare, C., Osafo, Newman, O., **Boamah, V. E.** (2016). *In vivo* anti-inflammatory and antioxidant properties of *Albizia zygia* D. C. Macbr. . 9<sup>th</sup> Joint Natural Products Conference, Copenhagen, Denmark, 24<sup>th</sup> to 27<sup>th</sup> July, 2016.
- Odoi, H., **Boamah, V. E.**, Agyare, C. (2016). Characterization of Multi-drug resistant *Pseudomonas aeruginosa* isolates from clinical, environmental and poultry litter samples from the Ashanti region of Ghana. IV International Conference on Antimicrobial Research–(ICAR 2016). Torremolinos-Malaga (Spain), 29 June -1 July 2016. Abstract 304.
- Nyarko, E., **Boamah, V. E.**, Odoi, H., Amankwa, F. (2015). The effectiveness of common brands of hand sanitizers used in Kumasi, Ghana. 2015 Ghana Biomedical Convention, ISSER, Legon, Theme: Cutting Edge Biomedical Research for National Building, Accra, 29<sup>th</sup> to 31<sup>st</sup> July, 2015. Abstract 327.
- Adu, F., Ugboduma, A.O., Agyare, C., Gbedema, S.Y., Annan, K., **Boamah, V. E.** Agyepong, N. (2012). Antioxidant and wound healing properties of stem bark methanolic extract of *Entandrophragma angolense*. 5<sup>th</sup> Western Africa Network of Natural Products Research Scientists (WANNPRES) and AAMPS Ethnoveterinary Sympodium, Ada, Osun State, Nigeria, 6<sup>th</sup> - 9<sup>th</sup> August, 2012. Abstract PO 13
- Adu, F., Ugboduma, A.O., Agyare, C., Gbedema, S.Y., Annan, K., **Boamah, V. E.** Agyepong, N. (2012). Antioxidant and wound healing properties of stem bark methanolic extract of *Entandrophragma angolense*. 5<sup>th</sup> Western Africa Network of Natural Products Research Scientists (WANNPRES) and AAMPS Ethnoveterinary Sympodium, Ada, Osun State, Nigeria, 6<sup>th</sup> - 9<sup>th</sup> August, 2012. Abstract PO 13
- Agyepong N., Agyare, C., Adu, F., Gbedema, S.Y., **Boamah, V. E.**, Ugboduma, A.O. Antimicrobial activities of ethanol leaf extract and fractions of *Clausena anisata*. 5<sup>th</sup> Annual Conference of Ghana Biomedical Convention, Noguchi memorial Institute for Medical Research, University of Ghana, Legon, Accra, 30<sup>th</sup> July-1<sup>st</sup> August, 2012. Abstract 49.
- Wiredu, C.B., Oduro, I.N., Agyare, C., Annan, K., **Boamah, V. E.**, Yam bean (*Pachyrhizus erosus* L. Urban) extracts as a natural source of antimicrobial agents. 5<sup>th</sup> Annual Conference of Ghana Biomedical Convention Conference, Noguchi Memorial Institute for Medical Research, University of Ghana, Legon, Accra, Ghana 30<sup>th</sup> July-1<sup>st</sup> August, 2012. Abstract 61.
- Agyare, C., Koffour, G.A., **Boamah, V.E.**, Gbedema, S.Y., Adu, F. (2011). Antimicrobial and anti-inflammatory activities of *Funtumia elastica* (Preuss)

Satpf (Apocynaceae) and *Macanaga heterophylla* Muel (Euphorbiaceae). West Africa Network of natural products research Scientists (WANNPRES) Symposium, Kumasi Ghana, 24<sup>th</sup> March, 2011. Abstract A006.

- Adu, F., Gbedema, S.Y., Agyare, C., **Boamah, V.E.**, Annan, K. (2011). Antimicrobial and antioxidant of *Thuga occidentalis* L. (Cupresaceae). West Africa Network of Natural Products Research Scientists (WANNPRES) Symposium, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana, 24<sup>th</sup> March, 2011. Abstract A026.
- Agyare, C., Appiah, T., **Boamah, V. E.**, Adu, F. (2014). Antimicrobial activity of two wood decaying fungi. Session Lectures, 6<sup>th</sup> International Conference on Drug Discovery and Therapy, Dubai Women's College, Dubai, United Arab Emirates (U.A.E.), 10<sup>th</sup> to 12<sup>th</sup> February, 2014. Abstract SL 104.
- Appiah, T., Agyare, C., **Boamah, V. E.**, Adu, F. (2013). Antimicrobial activity of two wood decaying fungi. 5<sup>th</sup> Annual Scientific Meeting, College of Health Sciences, CCB Auditorium, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana, 14<sup>th</sup> -15<sup>th</sup> November, 2013. Abstract A15.
- **Boamah, V. E.** and Agyare, C. (2013). Antibigram Profiles of Bacteria Isolated From Poultry Farms in the Ashanti Region of Ghana. Poster Presentation, KNUST College of Health Science PhD Forum, 25<sup>th</sup> July, 2013, Kumasi, Ghana. (**Best Poster**)
- **Boamah, V. E.**, Agyare, C., Foxman, B., Srinivasan, U., Li, J. J. (2013), Genotyping of Bacteria Isolated from Poultry Farms Using Eric-2 PCR. Poster Presentation, KNUST College of Health Science PhD Forum, 25<sup>th</sup> July, 2013, Kumasi, Ghana.
- **Boamah, V. E.**, Agyare, C., Foxman, B., Srinivasan, U., Li, J. J., Lafontaine, M. (2013). Vitek – II Antibiotic Sensitivity Testing of Identical Genotypes of Bacteria Isolated From Poultry Farms. Poster Presentation, KNUST College of Health Science PhD Forum, 25<sup>th</sup> July, 2013, Kumasi, Ghana.
- **Boamah, V. E.**, Agyare, C., Foxman, B., Srinivasan, U., Li, J. J. (2013), Prevalence of Class 1 Integrons in Gram Positive and Gram Negative Bacteria Isolated From Poultry Farms. Poster Presentation, KNUST College of Health Science PhD Forum, 25<sup>th</sup> July, 2013, Kumasi, Ghana.
- Agyare, C., Ugboduma, A.O., Adu, F., Gbedema, S.Y., Annan, K., **Boamah, V.E.**, Agyepong, N. Antimicrobial activities of methanol extracts of *Entandrophragma angolense* stem bark. 5<sup>th</sup> Western Africa Network of Natural Products Research Scientists (WANNPRES) and AAMPS



Ethnoveterinary Symposium, Ada, Osun State, Nigeria, 6<sup>th</sup> - 9<sup>th</sup> August, 2012. Abstract number SL 28.

- Gbedema, S.Y., Agyepong, N., Agyare, C., Adu, F., **Boamah, V.E.**, Ugboduma, A.O. Antimicrobial and antioxidant activities of ethanol extract of *Clausena anisata* Wild Hooke. 5<sup>th</sup> Western Africa Network of Natural Products Research Scientists (WANNPRES) and AAMPS Ethnoveterinary Symposium, Ada, Osun State, Nigeria, 6<sup>th</sup> - 9<sup>th</sup> August, 2012. Abstract number PO 12.
- Ugboduma, A., Adu, F., Agyare, C., Gbedema, S.Y., Annan, K., **Boamah, V.E.**, Agyepong, N. Antioxidant and wound healing properties of methanol stem bark extract of *Entandrophragma angolense* (Welw.) C.DC. 5<sup>th</sup> Annual Conference of Ghana Biomedical Convention, Noguchi memorial Institute for Medical Research, University of Ghana, Legon, Accra, 30<sup>th</sup> July-1<sup>st</sup> August, 2012. Abstract 43.
- **Arhin-Sam, V. E.**, Boakye-Yiadom, K., Ofori-Kwakye, K., Adu, F., Gbedema, S. Y. (2009). Groundwater quality in some communities in Kumasi, Ghana and the effectiveness of ten anti-diarrhoeal agents against isolated organisms. Commonwealth Pharmacists' Association/Pharmaceutical Society of Ghana Conference, Accra. 5<sup>th</sup> – 9<sup>th</sup> August, 2009. PS 047
- Gbedema, S. Y., Adu, F., Sawyer, I. K., **Arhin-Sam, V. E.**, Bayor, M. T., Annan, K. (2009). In vitro study to assess the antimicrobial activity of a toothpaste formulated from *Garcinia kola* stem wood extract. 2<sup>nd</sup> Annual Scientific Conference of the college of Health Sciences, KNUST. Kumasi. 10<sup>th</sup> -11<sup>th</sup> September, 2009.
- Adu F, Tuani G. K., Annan K., Tuani T. Y. Y., Gbedema S. Y, **Arhin-Sam V. E.** (2009). A Comparative study of the antimicrobial activity of the essential oils from some Ghanaian Plants. 2<sup>nd</sup> Annual Scientific Conference of the college of Health Sciences, KNUST. Kumasi. 10<sup>th</sup> -11<sup>th</sup> September, 2009.
- Adu F., Gbedema S. Y., Annan K., Abu M., **Arhin-Sam V. E.** (2009). Antimicrobial activity and Phytochemical screening of the leaves of *Duranta plumier* L. 2<sup>nd</sup> Annual Scientific Conference of the college of Health Sciences, KNUST. Kumasi. 10<sup>th</sup> -11<sup>th</sup> September, 2009.

## PRESENTATIONS AND INVITED LECTURES

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- Member/Rapporteur, UNESCO Open Science Advisory Committee, July 2020.
- Resource Person, Food and Organization of the United Nations, Emergency Centre for Trans-boundary Animal Diseases (FAO-ECTAD) Ghana, workshop to promote and create awareness on One Health (OH) and priority zoonotic diseases (PZDs). 9-10 July 2020, Ghana.
- **Speaker/Panel member** How to close the gender gap in science; 2020 International Day for Women and Girls in Science organised by UNESCO in partnership with International Council of Science, at the UNESCO Headquarters, Paris on 11<sup>th</sup> February, 2020.
- Special Guest and Speaker; Science and Technology Seminar Series for Females in First Cycle Institutions, Center for Disability and Rehabilitation Studies, KNUST, Kumasi, 21<sup>st</sup> June, 2018.
- Resource Person; Laboratory Safety Workshop for Technicians organized by the Faculty of Pharmacy and Pharmaceutical Sciences, KNUST-Kumasi, 24<sup>th</sup> February, 2018.
- Resource Person, 2016 World Pharmacists' Day celebration on the theme: "Pharmacists; Caring for you", organized by Ashanti regional branch of the Pharmaceutical Society of Ghana, 25<sup>th</sup> September, 2016
- Facilitator/Speaker, 3-Day Summer Molecular Biology Workshop organized by the Cancer and Infection Research Facility, College of Health Science, on "Genomic Medicine: evolving molecular-based approaches and their relevance in biomedical science practice" KNUST, Kumasi, 18<sup>th</sup> to 20<sup>th</sup> July, 2016
- Resource Person, Ghana Association of Biomedical Laboratory Scientists Ashanti Regional Branch Congress and Scientific Conference on The emerging threat of antimicrobial resistance and the role of Biomedical laboratory scientists, Kumasi, 8<sup>th</sup> October, 2015.

## PROFESSIONAL DEVELOPMENT TRAINING

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- **Participant**, Conference on Gender Mainstreaming in Higher Education and Research: Behind the Scenes; held at the Amonoo Neizer IDL Conference Center, KNUST, Kumasi, Ghana from 6<sup>th</sup> to 7<sup>th</sup> December, 2019.
- Participant and Poster Presenting Author; 29<sup>th</sup> European Congress of Clinical Microbiology and Infectious Diseases (ECCMID) Amsterdam, Netherlands, 13<sup>th</sup> – 16<sup>th</sup> April, 2019
- Participant; Workshop on “Capacity Building Initiative on Inclusive/Community-Based Innovation for AU Member States” organized by the African Union – Science Technical Research Commission (AU-STRC) at the Reiz Continental Hotel, Abuja-Nigeria from 10<sup>th</sup> – 12<sup>th</sup> December, 2018.
- Participant; Organisation for Women in Science for the Developing world (OWSD) 25<sup>th</sup> Anniversary Conference. Organised by the Ghana Chapter at the Amonoo Neizer IDL Conference Center, KNUST, Kumasi, Ghana from 8<sup>th</sup> – 9<sup>th</sup> November, 2018.
- Participant; Continuing Professional Development Programme on “Stroke: Classification, Diagnosis and Management”, organized by the Faculty of Pharmacy and Pharmaceutical Sciences and the Pharmacy Council, Ghana, 20<sup>th</sup> September, 2018.
- Participant; 8<sup>th</sup> KNUST Summer School on the theme “Improving Quality of Higher Education through Effective Measurement and Evaluation”. 20<sup>th</sup> –24<sup>th</sup> August, 2018.
- Participant; Continuing Professional Development Programme on “The Public Health Act of 2012 (Act 851)”, organized by the Faculty of Pharmacy and Pharmaceutical Sciences and the Pharmacy Council, Ghana, 26<sup>th</sup> June, 2018.
- Participant; Continuing Professional Development Programme on “Antimicrobial Stewardship”, organized by the Faculty of Pharmacy and Pharmaceutical Sciences and the Pharmacy Council, Ghana, 17<sup>th</sup> May, 2018.
- Participant; Training Workshop on Electronic Learning and Virtual Classroom organized by the Career Development Center of the College of Health Sciences, KNUST-Kumasi, 19<sup>th</sup> - 20<sup>th</sup> March 2018.
- Participant; Basic Higher Education Teaching Skills Course on “Quality assurance for the 21<sup>st</sup> century knowledge and skills workshop for higher education personnel”, organized by Association of African Universities (AAU), IDL Conference center, KNUST, 31<sup>st</sup> October to 3<sup>rd</sup> November, 2017.

- 7<sup>th</sup> KNUST Summer School on the theme “Technology, Manpower Training and Development”. 21<sup>st</sup> –25<sup>th</sup> August, 2017.
- Building Stronger Universities (BSU) Work Package II - Academia-Industry Stakeholders Conference on the theme Strengthening Academia-Industry Collaboration for National Development, 2nd August, 2017, Golden Bean Hotel, Kumasi.
- 4<sup>th</sup> Science Technology Engineering Mathematics (STEM) Conference organized by the University of Michigan; African Center of Excellence in Information and Communication Technologies (CETIC), University of Yaoundé I; Local Materials Promotion Authority (MIPROMALO) on the theme “Africa-US Frontiers in Science”, May 29 - June 2, 2017, Palais de Congres and Mont Febe Hotel, Yaoundé, Cameroon
- 3-day Women Advancement Forum on International Exchanges, Research & Academia (WAFIRA) 2017, on Passive Role Playing vs Active Career Advancement: A Look at Women and their Academic Careers. Organised by The German Academic Exchange Service (DAAD), IDL Conference center, KNUST, Kumasi, 28th - 30th March, 2017.
- Basic Higher Education Teaching Skills Course on “21<sup>st</sup> century innovative and learner-centered teaching methods in higher education”, organized by Association of African Universities (AAU), IDL Conference center, KNUST, 30<sup>th</sup> January to 2<sup>nd</sup> February, 2017.
- 6<sup>th</sup> KNUST Summer School on the theme: “Strengthening the Linkage amongst Academia, Industry and Government” from organized by the Quality Assurance and Planning Unit, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana. 15<sup>th</sup> to 18<sup>th</sup> August, 2016
- EuroScience Open Forum 2016, Manchester. Science as revolution: from cottonopolis to graphene city. Manchester city, 23<sup>rd</sup> – 27<sup>th</sup> July, 2016.
- IV International Conference on Antimicrobial Research- ICAR2016, “*Diagnosis and Therapy of Diseases Based Upon the Knowledge of Host Innate Immune Defense*” Torremolinos Congress Center, Torremolinos, Malaga, Spain, 29<sup>th</sup> June to 1<sup>st</sup> July, 2016
- 2<sup>nd</sup> OHCEA International One Health Conference, Strategic Approach to Global Health Security through one Health Innovations: Vision 2035. Speke Resort, Munyonyo, Kampala, Uganda, 16<sup>th</sup> – 18<sup>th</sup> November, 2015.

- 5<sup>th</sup> KNUST Summer School on the theme “Sustainable Development of Tertiary Institutions in Ghana amidst Economic and Security Challenges. Organized by the Quality Assurance and Planning Unit, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana, 17<sup>th</sup> to 20<sup>th</sup> August, 2015
- 6<sup>th</sup> Annual Scientific Conference of the College of Health Sciences, KNUST, on Non-Communicable Diseases: the significance of nutrition, Kumasi, 27<sup>th</sup> – 28<sup>th</sup> August, 2015.
- 2015 Ghana Biomedical Convention, ISSER, Legon, Theme: Cutting Edge Biomedical Research for National Building, Accra, 29<sup>th</sup> to 31<sup>st</sup> July, 2015.
- Retreat on Staff Development Programme for the College of Health Science, KNUST (Invitation only). Kumasi, 8<sup>th</sup> – 9<sup>th</sup> July, 2015.
- Research Communication Course organized under the auspices of the College of Health Science, KNUST, on Knowledge Sharing and Research Dissemination and Communication (KSRD&C)-BSU project. October 2014 to March 2015.
- 2-week course in Infection Microbiology (Antibiotic Resistance and Bacterial Typing)– Module B (PhD course), organized by the Graduate school of Health and Medical Sciences, Faculty of Health and Medical Sciences, University of Copenhagen, Denmark, 16<sup>th</sup> – 27<sup>th</sup> March, 2015.
- Graduate Students’ Week Celebration, Faculty of Pharmacy and Pharmaceutical Sciences, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana 26<sup>th</sup> -28<sup>th</sup> January, 2015 (Participant and Oral presenter).
- 4<sup>th</sup> KNUST Summer School Workshop for Senior Members of Kwame Nkrumah University of Science and Technology on the theme: Advancing Science and Technology through Effective Communication; organized by the Quality Assurance and Planning Unit, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana from 18<sup>th</sup> to 22<sup>nd</sup> August, 2014.
- Pharmacy Graduate Students’ Week. Faculty of Pharmacy and Pharmaceutical Sciences, KNUST, Kumasi. Theme From compound to Medication: the role of research, 26<sup>th</sup> – 28<sup>th</sup> January, 2015.
- Introductory Phylogenetics Workshop organized by Inqaba Biotec in collaboration with Noguchi Memorial Institute for Medical Research, University of Ghana, 9<sup>th</sup> – 12<sup>th</sup> December, 2014.

- 3-Day Summer Molecular Biology Workshop organized by the Cancer and Infection Research Facility, College of Health Science, on “The versatile application of PCR in research and diagnosis” KNUST, Kumasi, 21<sup>st</sup> to 23<sup>rd</sup> July, 2014.
- 7<sup>th</sup> Annual Graduate Students’ Association of Ghana (GRASAG) KNUST Research Conference on Research the key to sustainable and holistic National Development – the role of the graduate student. KNUST, Kumasi, 29<sup>th</sup> April, 2014.
- Workshop on Malaria Case Management and Supply Chain Management organized by the Pharmacy Council in Collaboration with USAID I DELIVER PROJECT and USAID MalariaCare, Miklin Hotel, Kumasi, Ghana, 24<sup>th</sup> July, 2014.
- Faculty Retreat with theme: “Achieving our Vision through Commitment” at Pempamsie Hotel, Cape Coast, Ghana, organized by Faculty of Pharmacy and Pharmaceutical Sciences, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana, 18<sup>th</sup> -20<sup>th</sup> June, 2014
- 5<sup>th</sup> Annual Scientific Conference. Theme; Trends in Cancer Research and Management, CCB Auditorium, College of Health Sciences, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana, 14<sup>th</sup> - 15<sup>th</sup> November, 2013.
- Workshop on the promotion of Women in Science in Africa. Organised by UNESCO/ANSTI. Johannesburg, South Africa. 24<sup>th</sup> – 25<sup>th</sup> September, 2013.
- Research Methodology Course conducted jointly by the University of Copenhagen and KNUST under the BSU platform on Human Health. Kumasi, 10<sup>th</sup> – 21<sup>st</sup> June, 2013.
- Academic writing workshop organized by the University of Michigan African Studies Centre, August 2012 to January 2013.
- 6<sup>th</sup> Annual Graduate Students’ Association of Ghana (GRASAG) KNUST Research Conference on Leading Innovations through Graduate. KNUST, Kumasi, 29<sup>th</sup> March, 2014.
- Health Insurance Portability and Accountability Act (HIPPA) training for the University of Michigan and the University of Michigan Health System, University of Michigan, 2012.

- Comprehensive Laboratory Safety Training (BLS009) for laboratory personnel, University of Michigan, 2012.
- 1<sup>st</sup> KNUST Summer School for staff on the theme: 'Equipping Staff for leading change in academia'. 8-12 August 2011.
- Two-week course on Learning and Teaching of Modern Cell Biology, A Route to Successful Biomedical Research, Organised by the Kumasi Center for Collaborative Research (KCCR) and the American Society for Cell Biology (ASCB), in Kumasi, Ghana, from 4<sup>th</sup> -15<sup>th</sup> July, 2011.
- WANNPRESS Ghana Chapter Symposium on Natural Product Research on 'Natural solutions to 21<sup>st</sup> century health problems: from research laboratories to commercialization'. 24<sup>th</sup> March, 2011
- Workshop organized by the Quality Assurance and Planning Unit of the Vice Chancellor's office with the theme: Integrating into the vision of KNUST', 18-19 October 2010.
- 3<sup>rd</sup> Annual Scientific Conference, College of Health Sciences, KNUST, held at Great Hall, KNUST, Kumasi, 26 – 27 August, 2010.
- 2<sup>nd</sup> Annual Scientific Conference of the College of Health Sciences, KNUST. Kumasi. 10<sup>th</sup> -11<sup>th</sup> September, 2009.
- Commonwealth Pharmacists' Association/Pharmaceutical Society of Ghana Conference on Managing Threats and crisis the vital role of pharmacy on an unstable world, Accra, Ghana. 5<sup>th</sup> – 9<sup>th</sup> August, 2009.
- Annual General Meetings of Pharmaceutical Society of Ghana, Ghana, August/September, 2007 to date.

## **PROFESSIONAL AFFILIATIONS**

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Organisation for Women in Science for the Developing world (OWSD), 2018-Present  
Member

National Chair for the Ghana Chapter – co-ordination of activities of Ghana chapter.

Women in Science, Technology, Engineering and Mathematics (WiSTEM<sub>GH</sub>), 2018-Present  
Member

Part of organisers of Girls' Camp 2018 and 2019.

Action on Preeclampsia Ghana (APEC GH), 2018-Present  
Member  
Deputy Ashanti Regional coordinator

EuroScience, 2016-Present  
Member

European Society of Clinical Microbiology and Infectious Disease (ESCMID), 2015-  
Present  
Member

African Research Academies for Women (ARA-W), 2015-Present  
Member  
Mentor – for interns  
Co-ordinator for KNUST – Ensure placement of interns with mentors for the SURP,  
organize accommodation and ensure success of the program on KNUST.  
Judge during the final SURP presentation.

One Health Central and Eastern Africa (OHCEA), 2015-Present  
Member

Ghana Biomedical Convention, 2014-Present  
Member  
Member of Local Organising Committee for CoBReG 2019

Republic Hall, KNUST, Ghana, 2012-Present  
Fellow

University Teachers' Association of Ghana, 2010-Present  
Member.

Academia, Social and Research Pharmacists' Association, 2006-Present  
Member.

Lady Pharmacists' Association of Ghana, 2006-Present  
Member

Pharmaceutical Society of Ghana, 2006-Present  
Member.



## PROFESSIONAL SERVICE

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**L'oreal For Women In Science Expert - UNESCO Open Science Advisory Committee - Member/Rapporteur, July 2020.**

### **Conference Co-Organizer**

Facilitator/Moderator for 2<sup>nd</sup> Scientific Conference APEC GH, on “**Preeclampsia: Vigilance in Screening, Diagnosis and Management**”, 22<sup>nd</sup> May, 2020.

Co-Lead organiser for the Maiden Scientific conference on Preeclampsia of APEC GH, Amonoo-Niezer Conference center, KNUST, Ghana on “**Improving management of Preeclampsia through Awareness, Research and innovation**”, 22<sup>nd</sup> May, 2019.

Lead-Organiser for Organisation for Women in Science for the Developing world (OWSD) 25<sup>th</sup> Anniversary Conference. Organised by the Ghana Chapter at the Amonoo Neizer IDL Conference Center, KNUST, Kumasi, Ghana from 8<sup>th</sup> – 9<sup>th</sup> November, 2018.

### **Peer-Reviewed Articles for:**

- 2019 to date - Scientific African
- 2019 to date - African Journal of Plant Science
- 2017 to date - African Journal of Microbiology Research
- 2017 to date - Journal of veterinary medicine and animal health

## COMMUNITY SERVICE

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### **Organisation for Women in Science for the Developing World (OWSD) Ghana Chapter**

Visit to Second Cycle Girls institutions to mentor and encourage young girls studying science to continue and take up careers in science upon completion. Ashanti Region, February 2020.

### **Millennium Development Authority (MiDA) Ghana**

[MiDA Mentor on the MiDA mentorship programme for interns. To mentor young tertiary females selected by MiDA to carry out their internships with various organisations, KNUST, 2019.

Ghana Science Association 8<sup>th</sup> Research Seminar and Poster Presentations / **Evaluator/ evaluate and grade poster presentations**, held at the College of Science Auditorium, KNUST on Wednesday 1<sup>st</sup> May, 2019.

African Research Academies for Women (ARA-W), 2015-Present

**Mentor for interns, Co-ordinator for KNUST** – see to the placement of interns with mentors for the SURP, organize accommodation and ensure success of the program on KNUST and Judge during the final SURP internship presentation.

Women in Science, Technology, Engineering and Mathematics (WiSTEM<sub>GH</sub>), 2018-  
**Part of organisers of Girls' Camp** 2018 and 2019.

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## LANGUAGES

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**Akan:** Native Language, Advanced Listener, Advanced Speaker, Advanced Reading and Advanced Writing

**English:** Official Language, Advanced Listener, Advanced Speaker, Advanced Reading and Advanced Writing

## OTHER SKILLS AND COMPETENCES

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These include

Research proposal conceptualization, execution and publication skills, teaching and supervision skills, verbal, writing and presentation skills, and leadership, event planning and execution skills. I also have good team work skills and well-developed interpersonal skills.

## OTHER

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Interests/Hobbies include bead crafts, reading, music, travelling and sightseeing

## REFERENCES

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**Esi Awuah, Prof. Mrs.**

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**Dr. Christian Agyare, Prof.**

Department of Pharmaceutics (Microbiology Section)

KNUST

FPPS

Phone: +233 246 369 803

Email: chrisagyare@yahoo.com; cagyare.pharm@knust.edu.gh

Relationship: Senior colleague, Supervisor and Mentor