

CURRICULUM VITAE

ISAAC ACHEAMPONG

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Professional Summary

Self-motivated, proactive, multi-skilled and results oriented practising Medical Laboratory Scientist with technical expertise and interest in Immunology and Chemical Pathology. 11 years of clinical laboratory practice and 5-6 years of medical research. Seeking challenging opportunities that will foster my career ambitions and research expertise with prospects for academic and professional development.

Current Research Interest

All aspects of immunological and molecular biology research with greater interest in host immunological response and influence on disease pathogenesis, as well as the factors that modulate the nature and development of acquired immunity that may be applicable for therapeutic development. My current research focuses on immune biomarkers and assays for TB diagnosis and treatment response.

Academic Qualifications

Aug 2020 – Date	Ph.D Candidate (Immunology) Kwame Nkrumah University of Science and Technology (KNUST), Kumasi, Ghana
Aug 2013 – Nov 2016	Master of Philosophy (MPhil) Immunology Kwame Nkrumah University of Science and Technology (KNUST), Kumasi, Ghana
<i>Courses</i>	Research Methods, Scientific Writings and Seminar Presentations.

Reading: 6.5
Writing: 6.5

Work Experience

Aug 2019- Date	PhD studentship Position
	Kumasi Centre for Collaborative Research (KCCR), (MAP-TB PROJECT)
<i>Core Duties</i>	Research using Immunological assays (IGRA In-vitro, Tam-TB, Ex-vivo, 2-Hit & ELISA) and Fieldwork.
<i>Relevance</i>	<i>Experience from this research work is necessary for my PhD studies and career in immunological research.</i>
Nov 2013 – Date	Principal Medical Laboratory Scientist
	University Health Services, Kwame Nkrumah University of Science and Technology.
<i>Core Duties</i>	Laboratory diagnosis of diseases in a general a laboratory setting comprising Haematology, Chemical Pathology, Microbiology, Serology and Immuno-Haematology. Quality assurance (internal and external).
<i>Other duties</i>	Interns and Attachment Training Coordinator.
<i>Achievements</i>	Introduction of new test Drafting of Protocols for all test carried out by the laboratory
<i>Relevance</i>	<i>Experience from continues laboratory practice in a clinical laboratory setting involving quality control and assurance, infection prevention and control, specimen handling, pipetting skills, light microscopy, flow cytometry and ELIZA techniques will be applicable in a research laboratory.</i>
Jul 2016 – March 2018	Part-time Lecturer, Clinical Chemistry, and Immunology
	Department of Medical Laboratory Technology, Mountain View Health College, Emena, Kumasi, Ghana.

<i>Duties</i>	<p>Developing lecture contents and plans, class assignments, laboratory practical sessions, mid semester examinations, end of semester examinations based on the approved curriculum.</p> <p>Participate in the review and development of curriculum to enhance lecture content.</p> <p>Supervise Students' thesis and dissertations.</p>
<i>Achievements</i>	<p>Improved performance of students in clinical chemistry</p> <p>Review of curriculum to enhance current training needs of students</p>
<i>Relevance</i>	<p><i>The presentation skills acquired from continuous student lecturing will be utilised in seminar presentations.</i></p>

Apr 2013 – Oct 2013

Medical Laboratory Scientist

Komfo Anokye Teaching Hospital (KATH), Kumasi, Ghana.

<i>Duties</i>	<p>Immunodiagnosics in transfusion medicine (specialised laboratory setting) comprising Blood Grouping, Cross-Matching, direct and indirect antihuman globulin testing, exchange transfusion and serological test for blood safety.</p>
<i>Achievements</i>	<p>Improvement in testing procedures in blood safety.</p>
<i>Relevance</i>	<p><i>Experience from continues laboratory practice in a specialised clinical immunohematology laboratory setting, quality control and assurance, infection prevention and control, specimen handling, pipetting skills, light microscopy will be applicable in a research laboratory.</i></p>

Sep 2011 – Mar 2013

Medical Laboratory Scientist on part-time

University Health Services, Kwame Nkrumah University of Science and Technology

<i>Duties</i>	<p>Laboratory diagnosis of diseases in a general laboratory setting comprising Haematology, Chemical Pathology, Microbiology, Serology and Immuno-Haematology.</p>
<i>Achievements</i>	<p>Improved turn-around time for test.</p>
<i>Relevance</i>	<p><i>Experience from continues laboratory practice in a clinical laboratory setting such as quality control and assurance, infection prevention and</i></p>

control, specimen handling, pipetting skills, light microscopy, flow cytometry and ELIZA techniques are applicable in the research laboratory.

Oct 2011 – Dec 2013

Medical Laboratory Scientist

Oforikrom Hospital, Oforikrom, Kumasi, Ghana.

Duties

Laboratory diagnosis in a general laboratory setting Parasitology, Chemical Pathology and Haematology.

Achievements

Establishment of external quality assurance system for the laboratory.

Relevance

Experience from continues laboratory practice in a generalised private clinical laboratory setting such as quality assurance, infection prevention and control, specimen handling, pipetting skills, light microscopy are applicable in a research laboratory.

Oct 2010 – Aug 2011

Intern Medical Laboratory Scientist

University Health Services, Kwame Nkrumah University of Science and Technology.

Duties

Observation and training under supervision to carry out test in Haematology, Chemical Pathology, Microbiology, Serology and Immuno-Haematology.

Achievements

Monthly presentations helped improve established protocols for some test in the laboratory.

Relevance

Experience from the laboratory training was requisite for the attaining of my clinical laboratory licence and subsequent practice and such experience will be relevant in a research laboratory.

Jun 2010 – Sep 2010

Remedial Teacher

Nadenzeng Remedial School, Bolgatanga, Ghana.

Duties

Teaching Biology and Integrated Science

Achievements

General improved student performance

Relevance

The presentation skills acquired from continuous student lecturing will be will be utilised in seminar presentations.

Activities/ Positions of Responsibility

Aug 2018- Date

General Secretary

Ghana Association of Medical Laboratory Science (GAMLS)-
Ashanti Regional Chapter.

Activities

Ensuring the administrative running of the regional chapter of the association including all correspondence in respect of the regional association.

June 2019

Regional Facilitator (Trainer of Trainers), National Malaria Control Program

Activities

Training of district trainers on new guidelines in Malaria Case Management

June 2019

Facilitator, AHPC & GAMLS CPD Program

Activities

CPD training on Quality Control of Serological Test

Jan 2018 – Date

Executive Secretary

Learning-to-Learn Africa (An NGO)

Activities

Bringing aid to deprived communities in Africa through intervention programs in education, health and sanitation
(flagship program: Cancer HopeGH)

Oct 2016 – Date

Member, Quality Assurance Subcommittee of QAPU,
University Health Services, Kwame Nkrumah University of
Science and Technology.

Activities

Ensuring quality assurance in all units of the University Health Services

Nov 2016 – Date

Founder and CEO of Grace-Care LSS (Private Enterprise)

Activities

Laboratory Consultancy Services

Dec 2013 – Date	Malaria Microscopy Facilitator of Malaria Control Program, University Health Services, KNUST.
<i>Activities</i>	Malaria microscopy training and update for laboratory staff
Feb 2016 – Apr 2016	Project Manager , HIV mentored pilot research project, Medical Education Partnership Initiative, KNUST.
<i>Activities</i>	Managed the success completion of a pilot project on “Determinants of the outcome of PMTCT measures at three ART centres in Kumasi over a three-year period.
Dec 2014 – Date	Member, Ebola Rapid Response Team , University Health Services, KNUST.
<i>Activities</i>	On-call for rapid response in any suspended case of Haemorrhagic viral disease.
Jan 2015	District Facilitator , 2 ND edition, IDSR, EVD, Cholera, Meningitis Surveillance, Ghana Health Service
<i>Activities</i>	Training of district health service practitioners in the Ashanti region on surveillance and outbreak response for Viral Haemorrhagic fevers, Cholera and Meningitis.
Aug 2008 – Jun 2010	Student Volunteer , Centre for the development of deprived communities, Kumasi Branch.
<i>Activities</i>	Health education and screening for deprived communities in the Ashanti region on infectious diseases.
Jan 2007 – June 2010	Student Member , Students against HIV/AIDS (SAA), Kwame Nkrumah University Of Science And Technology, Kumasi.
<i>Activities</i>	Education of students on sexually transmitted infections and free HIV screening for students.

Seminars/ Conferences/ Workshops/Professional Development Training

14/12/2021-16/12/2021	1st Conference on Public Health in Africa (CPHIA)
<i>Organisers</i>	<i>African Union, African Centre for Disease Control and Prevention</i>
<i>Relevance:</i>	<i>Africa's response to the COVID-19 pandemic, explore how digitisation, modelling and analytics can be deployed to advance public health goals and discover what it means to take a whole-of-society approach to combatting emerging infectious diseases and future pandemics.</i>
29/09/2021-30/09/2021	9th Biennial Conference of the College of Health Sciences, KNUST, Kumasi
<i>Organisers</i>	<i>College of Health Sciences, KNUST, Kumasi.</i>
<i>Relevance:</i>	<i>I did a poster presentation of my Research on "Identification of predictive biomarkers for tuberculosis treatment response using integrated analysis and data visualization tools."</i>
1/08/2021-5/08/2021	11th African congress of Immunology-Poster Presenter
<i>Organisers</i>	<i>African Congress of Immunology</i>
<i>Relevance:</i>	<i>I did a Poster Presentation of my Research on "Diagnostic utility of short-term IFN-γ based in-vitro assay for tuberculosis (TB) in a high-burden clinical setting"</i>
10/06/2021	Certificate-Implementation Research in Infectious Disease of Poverty.
<i>Organisers</i>	<i>World Health Organisation/ TDR, ARTC-UG</i>
<i>Relevance:</i>	<i>Modular course and training on Implementation Research</i>
28/03/2021	Professional Certificate-Monitoring and Evaluation in Global Health
<i>Organisers</i>	<i>University of Washington</i>
<i>Relevance:</i>	<i>Program Monitoring and Evaluation in Health and Research</i>

30/08/2018	Advancing medical laboratory practice through skills and technology (2018 Regional Scientific Congress)
<i>Organisers</i>	Ghana Association of Medical Laboratory Scientist, Haematology Department, Komfo Anokye Teaching Hospital and Sysmex WCA.
<i>Relevance:</i>	<i>Presentation of abstracts and refresher training on Disorders of WBC morphology and clinical implications; acute and chronic myeloproliferative disorders.</i>
17/08/2017	Haematology results interpretation training
<i>Organisers</i>	Sysmex WCA Accra, Komfo Anokye Teaching Hospital
<i>Relevance</i>	<i>Interpretation of haematology results in disease diagnosis.</i>
26/07/2017	Blood transfusion safety, “serious hazards of transfusion”
<i>Organisers</i>	National blood service, Ghana, Komfo Anokye Teaching Hospital
<i>Relevance</i>	<i>Refresher training on serious hazards of blood transfusion and blood safety practices in transfusion medicine.</i>
8/06/2017	Basic life support according to American Heart Association Model
<i>Organisers</i>	Africa Partners Medical, Ghana, Ghana Health Service, Ghana Medical and Dental Council.
<i>Relevance</i>	<i>Refresher training on CPR by the health professional</i>
30/05/2017	Blood transfusion safety, “right blood, right patient, right time, right place”
<i>Organisers</i>	National Blood Service, Ghana, Ghana, Komfo Anokye Teaching Hospital
<i>Relevance</i>	<i>Refresher training on choosing the right blood component for the right patient at the right time to save lives.</i>

6/05/2017	Laboratory Quality Management Systems Workshop.
<i>Organisers</i>	Ghana Association of Medical laboratory Scientist, Allied Health Professions Council, Ghana Health Service.
<i>Relevance</i>	<i>Training on how to fully implement quality management systems (ISO 15189:2012) in the laboratory for certification.</i>
5/05/2016	Medical Laboratory Science: key to evidence based medicine (2016 annual regional congress and scientific conference)
<i>Organisers</i>	Ghana Association of Biomedical Laboratory Scientist
<i>Relevance</i>	<i>Establishing quality assurance systems in the laboratory for quality service delivery.</i>
8/10/2015	The emerging threat of antimicrobial resistance; the role of the biomedical scientist (2015 annual regional congress and scientific conference)
<i>Organisers</i>	Ghana Association of Biomedical Laboratory Scientist
<i>Relevance</i>	<i>Abstract presentations, curtailing antimicrobial resistance in Ghana.</i>
21/09/2015	HIV research workshop
<i>Organisers</i>	Medical Education Partnership Initiative (KNUST), Komfo Anokye Teaching Hospital, Ghana College of Physicians and Surgeons, University of Michigan, Republic of Ghana.
<i>Relevance</i>	<i>HIV epidemiology, research ethics, quantitative and qualitative research methods, research design, mentored research exercises, grant proposal writing, collaborating in research.</i>
18/08/2015	Sustainable development of tertiary institutions in Ghana amidst economic and security challenges (5th summer school)
<i>Organisers</i>	Quality assurance and planning unit, Kwame Nkrumah, University of Science and Technology
<i>Relevance</i>	Ensuring quality delivery services for the tertiary institution.
29/05/2015	Biostatistics and computer-aided research application

<i>Organisers</i>	Department of Molecular Medicine, School of Medical Sciences, Kwame Nkrumah University of Science and Technology.
<i>Relevance</i>	Training in the use of statistical tools for data analysis (SPSS 22, GraphPad Prism 5)
18/08/2014	Advancing Science and Technology through effective communication (4 th KNUST Summer School Workshop)
<i>Organisers</i>	Quality Assurance and Planning Unit (Kwame Nkrumah University of Science and Technology)
<i>Relevance</i>	Effective communication in a tertiary institution
13/08/2014	Ebola Workshop , Preparing the Health Workers in the Ashanti Region for a possible Ebola outbreak
<i>Organisers</i>	Ghana Health Service, Regional Health Directorate
<i>Relevance</i>	Trained as a facilitator to train district hospitals on Ebola, Meningitis and Cholera surveillance and rapid response.
18/12/2013	Refresher training for malaria diagnosis
<i>Organisers</i>	Ghana Health Service, Presidential Malaria Initiative, Centre for Disease Control/ USAID, USA.
<i>Relevance</i>	Trained as a microscopist for the introduction of the malaria speciation and parasite count to replace the plus system.
19/07/2013	Regional scientific conference (Upholding ethical standards and promoting quality medical laboratory practice in Ghana)
<i>Organisers</i>	Ghana Association of Medical Laboratory Scientist
<i>Relevance</i>	Scientific abstract presentations and refresher training on ethical standards in the clinical laboratory.
14/05/2012	New technologies for malaria diagnosis
<i>Organisers</i>	Research and Development Unit, Komfo Anokye Teaching Hospital, University of Alberta, Canada.

<i>Relevance</i>	Scientific presentation on advances in new technologies for malaria diagnosis
26/04/2012	2nd scientific conference (confronting emerging challenges in Ghana's health care delivery; the role of the medical laboratory scientist)
<i>Organisers</i>	Ghana Association of Medical Laboratory Scientist
<i>Relevance</i>	Abstract presentations and refresher training on how to handle emerging challenges in the health care delivery system of Ghana.
06/07/2011	Global management of communicable diseases, the role of the laboratory scientist
<i>Organisers</i>	Komfo Anokye Teaching Hospital (KATH), Ghana Association of Medical Laboratory Scientist
<i>Relevance</i>	Handling infectious diseases in the laboratory, quality assurance, infection prevention and control
26/01/2011	Malaria vaccine development
<i>Organisers</i>	Dr Rolf Fendel, Fraunhofer IME, RWTH, AACHEN, Kumasi Centre for Collaborative Research (KCCR)
<i>Relevance</i>	Update on advances in the malaria vaccine development
19/01/2011	How to write a good grant application
<i>Organisers</i>	Kumasi Centre for Collaborative Research, Royal Society of London
<i>Relevance</i>	Training on how to write a good grant application.
01/2010	Investment, planning, entrepreneurship and corporate excellence seminar
<i>Organisers</i>	Legacy and Legacy (Springboard)
<i>Relevance</i>	Workshop on how to emerge and advance as an entrepreneur and ensure corporate excellence

3/02/2009	Professional development seminar in clinical parasitology (Protozoa, Helminths, Case study reports-parasitic diseases)
<i>Organisers</i>	Komfo Anokye Teaching Hospital, University of Utah, USA
<i>Relevance</i>	Case study reports on protozoans and helminths.

Professional Associations

- ❖ Ghana Association of Medical Laboratory Scientist (GAMLS)
- ❖ African Society for Laboratory Medicine (ASLM)
- ❖ Validate Network
- ❖ Immunology Society of Ghana

Grant

<i>Team Members:</i>	Dr Ayisi-Boateng, Mr Isaac Acheampong , Mr Isaac Nkrumah
<i>Mentors:</i>	Dr Anthony Enimil, Dr Osei Kwaku Wusu-Ansah
<i>My Role in the Project:</i>	Project Manager
<i>Project Title:</i>	<i>Determinants of the outcome of PMTCT measures at three art centres in Kumasi over a three-year period</i>
<i>Grant Amount:</i>	GH¢ 10,000
<i>Period/ Status:</i>	Feb – Apr 2016 (completed in time)

Entrepreneurship Venture

- ❖ Grace-Care laboratory Supply and Services
- ❖ Learning-to-Learn Africa (CancerHope GH), NGO

Publications

- ❖ Obirikorang, C., Fondjo, L., Adomako, S., Bio, F., and **Acheampong, I.** (2015). Iron Deficiency among Pregnant Women Attending Antenatal Clinic at the KNUST Hospital, Kumasi, Ghana. *Br. J. Med. Med. Res.* 6: 823–832.

- ❖ Obirikorang, C., Quaye, L., and **Acheampong, I.** (2012). Total lymphocyte count as a surrogate marker for CD4 count in resource-limited settings. *BMC Infect. Dis.* 12: 128.
- ❖ Obirikorang, C., Quaye, L., Bio, F.Y., Amidu, N., **Acheampong, I.**, and Addo, K. (2012). Asymptomatic Bacteriuria among Pregnant Women Attending Antenatal Clinic at the Uni-versity Hospital, Kumasi, Ghana. *J. Med. Biomed. Sci.* 1: 38–44.
- ❖ Frimpong, C., Agyemang-yeboah, F., Obirikorang, C., Hardy, Y., Nyame, K., **Acheampong, I.**, Kwame, O., Donkor, S., Afranie, B. O., & Amoah, B. (2020). Procalcitonin as a Surrogate Marker of Sepsis in People Living with HIV / AIDS : *Journal of Clinical Chemistry and Procalcitonin as a Surrogate Marker of Sepsis in People Living with HIV / AIDS : A Case Study at Komfo Anokye Teaching Hospital , Ghana.* *J. Clin. Chem. Lab. Med.* 3, 1–7.

Scholarship

2002 – 2005

Government of Ghana scholarship for brilliant students

Ofori Panin Secondary School

Computer Skills

Statistical Software

SPSS, GraphPad Prism 5

Referencing Software

Zotero, Mendeley

Computer Software

MS Word, PowerPoint, MS Excel, Excellent Typing Skills

References

Academic

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Professional

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