**DR. ISAAC ACHEAMPONG (**CURRICULUM VITAE)

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 ***Biosketch***

*Isaac Acheampong is a Lecturer at the Department of Medical Diagnostics, Kwame Nkrumah University of Science and Technology (KNUST) with expertise in Immunology. His current research work focuses on infection immunology, exploring innovative immunological tools for tuberculosis diagnosis in children. He carries out his research with the Infection Immunology Group at the Kumasi Centre for Collaborative Research in Tropical Medicine (KCCR). Before this, he worked as a part-time lecturer at the Kumasi Technical University (KsTu) and as a Medical Laboratory Scientist for many years, working at the University Hospital, KNUST and the Komfo Anokye Teaching Hospital (KATH), Kumasi, Ghana.*

*Isaac Acheampong is also passionate about entrepreneurship and is the CEO of Grace-care Diagnostics, a biomedical enterprise involved in medical laboratory diagnostics and ultrasound imaging. Additionally, Isaac is passionate about mentoring the next generation and recently founded PASE foundation, a start-up NGO with the goal to raise and develop future leaders for Africa and Ghana through well-structured mentorship in career planning, apprenticeship and business development.*

***General Research Interest***

*My general research interest is 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 diagnostics, treatment monitoring, vaccines and therapeutic development.*

***Important links (Recent publications)***

*Research Gate:* [*https://www.researchgate.net/profile/Isaac-Acheampong-2/research*](https://www.researchgate.net/profile/Isaac-Acheampong-2/research)

ORCiD ID: 0000-0002-6065-3594

Google Scholar profile: <https://scholar.google.com/citations?user=8_RTE08AAAAJ&hl=en>

***Work Experience***

**3/07/2025 – Date Lecturer (Immunology)**

Institution Department of Medical Diagnostics, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana.

*Core Duties Developing lecture contents and plans, class assignments, laboratory practical sessions, mid-semester examinations, end-of-semester examinations based on the approved curriculum, undergraduate project supervision and thesis evaluation.*

**12/10/2022 – 2/07/2025 Asst. Lecturer (Immunology)**

Institution Department of Medical Diagnostics, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana.

*Core Duties Developing lecture contents and plans, class assignments, laboratory practical sessions, mid-semester examinations, end-of-semester examinations based on the approved curriculum, undergraduate project supervision and thesis evaluation. Participate in the review and development of curriculum to enhance lecture content.*

**01/11/2019 – 31/07/2024 PhD studentship Position**

InstitutionKumasi Centre for Collaborative Research (KCCR), Kumasi, Ghana (MAP-TB PROJECT)

*Core Duties Research using Immunological Assays (IGRA In-vitro, Tam-TB, Ex-vivo, 2-Hit, CBA & ELISA) and Fieldwork.*

**01/11/2013 – 31/10/2019 Principal Medical Laboratory Scientist**

Institution University Health Services, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana.

*Core Duties* *Laboratory diagnosis of diseases in a general laboratory setting comprising Haematology, Chemical Pathology, Microbiology, Serology and Immuno-Haematology, Quality assurance (internal and external). Other Duties (Interns and Attachment Training Coordinator).*

**01/07/2019 – 31/03/2021 Part-time Assistant Lecturer**

Institution Kumasi Technical University, Kumasi, Ghana, Department of Medical Laboratory Technology, Kumasi, Ghana.

*Core Duties* *Developing lecture contents and plans, class assignments, laboratory practical sessions, mid-semester examinations, and end-of-semester examinations based on the approved curriculum.*

*Participate in the review and development of curriculum to enhance lecture content.*

**10/04/2013 – 31/10/2013 Medical Laboratory Scientist**

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

*Core Duties* *Immunodiagnostics 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.*

***Academic Qualifications***

**01/10/2020 – 29/01/2025 Ph.D. (Immunology)**

*Institution**Kwame Nkrumah University of Science and Technology (KNUST), Kumasi, Ghana.*

**01/08/2013 – 01/11/2016 Master of Philosophy (MPhil) Immunology**

*Institution Kwame Nkrumah University of Science and Technology (KNUST), Kumasi, Ghana.*

**01/08/2006 – 07/06/2010 Bachelor of Science (BSc) Medical Laboratory Technology,**

*Institution Kwame Nkrumah University of Science and Technology (KNUST), Kumasi, Ghana.*

***English Proficiency***

**28/07/2018 IELTS (British Council); Overall band Score: 7.5**

 Speaking: 7.5

 Listening: 8.5

 Reading: 6.5

 Writing: 6.5

***Activities/ Positions of Responsibility***

**01/03/2023 - 31/10/2024 Member, Immunology Panel of the Scientific and Research Committee,**

*Institution**Ghana Association of Medical Laboratory Scientist (GAMLS), Ghana.*

01/10/2017 – 31/09/2019 **Regional Secretary, Ashanti GAMLS**

*Institution Ghana Association of Medical Laboratory Scientist (GAMLS), Ghana.*

**01/06/2018 – 01/06/2019** **Member, Regional Facilitation Team**

*Institution National Malaria Programme, Regional Health Directorate, Ashanti Region, Ghana*.

**05/10/2016 – 31/01/2018 Member, Quality Assurance Subcommittee of QAPU,**

*Institution University Health Services, KNUST, Ghana.*

**011/01/2015 – 28/01/2016 District Facilitator**, 2ND edition, IDSR, EVD, Cholera, Meningitis Surveillance,

*Institution**Ghana Health Service, Ashanti Region, Ghana.*

***Seminars/ Conferences/ Workshops/Professional Development Training***

**29/01/2025 – 14/02/2025 Certificate- Introductory Course in Epidemiology & Medical Statistics,**

*Institution London School of Hygiene & Tropical Medicine, Unit, The Gambia.*

*Role: Participant*

**18/12/2023-23/12/23 Certificate-Good Clinical Practice (GCP),**

*Institution Global Health and Infectious Diseases Research Group (KCCR).*

*Role Participant*

**14/12/2021-16/12/2021 1st Conference on Public Health in Africa,**

*Institution**African CDC.*

*Role Participant*

**1/08/2021-5/08/2021 11th African Congress of Immunology,**

*Institution Federation of African Immunology Societies (FAIS).*

*Role Poster presenter*

**12/03/21- 30/06/2021 Certificate- Monitoring and Evaluation** (University of Washington)

*Institution University of Washington*

*Role Participant*

**06/04/2021 - 10/06/2021 Certificate-Implementation Research in Infectious Disease of Poverty.**

*Institution World Health Organisation/ TDR, ARTC-UG*

*Role: Participant*

***Recent Grants***

**GSK Open Lab. Grant-2023 *Amount (€86,827.88), Role (Co-PI), Project:*** *Utility of improved techniques of specimen collection by sputum induction and the evaluation of non-sputum-based biomarkers for pediatric tuberculosis diagnosis in Ghana.*

*Funding Institution GSK*

**KNUST KREF Grant 2022 *Amount (GH¢45,000), Role (Co-PI), Project:*** *T-cell immunophenotyping and high dimensional analysis in the identification of novel biomarkers for TB diagnosis among children in Ghana.*

*Funding Institution Office of Grants and Research, KNUST.*

**PEPFAR HIV GRANT 2016 Amount (*GH¢10,000), Role (Project Manager),*** *Project: Determinants of the outcome of PMTCT measures at three art centres in Kumasi over a three-year period.*

*Funding Institution Office of Grants and Research, KNUST.*

***Entrepreneurship***

* CEO, Grace-care Diagnostics, Kumasi Ghana, a biomedical diagnostic and ultrasound imaging services.

***Professional Associations***

* Ghana Association of Medical Laboratory Scientist (GAMLS)
* African Society for Laboratory Medicine (ASLM)

***Research Associations***

* Associate Member, Validate Network, University of Oxford, UK.
* Member, Immunology Society of Ghana.

***License Details***

Type of License Medical Laboratory Scientist

Licence Issuer Allied Health Professions Council, Ghana

Professional license No. 09018912

*Scholarship*

**2002 – 2005 Government of Ghana scholarship for brilliant students**

*Institution Ofori Panin Secondary School, Ghana.*

***References***

Research Prof. Ricard Odame Phillips, Scientific Director, KCCR-K NUST, Phone: +233209140451, Email: phillips@kccr.de

***Recent Publications***

* **Acheampong, I**., Minadzi, D., Adankwah, E., Aniagyei, W., Vivekanandan, M.M., Yeboah, A., et al. (2023). Diminished Interleukin-7 receptor expression on T-cell subsets in tuberculosis patients. Hum Immunol S0198-8859(23)00309–9.
* **Acheampong, I.**, Minadzi, D., Laing, E.F., Frimpong, M., Vivekanandan, M.M., Yeboah, A., et al. (2024). Differences in PPD- and mitogen-induced T-cell activation marker expression characterize immunopathology in acute tuberculosis patients. Eur J Clin Microbiol Infect Dis.
* Ahor, H.S., Vivekanandan, M.M., Adankwah, E., Minadzi, D., **Acheampong, I.,** Aniagyei, W., Yeboah, A., Arthur, J.F., Lamptey, M., Abass, M.K., Kumbel, F., Osei-Yeboah, F., Gawusu, A., Petzsch, P., Köhrer, K., Debrah, L.B., Owusu, D.O., Debrah, A., Mayatepek, E., Seyfarth, J., Phillips, R.O., Jacobsen, M., 2024. Monocyte transcriptome signatures of inflammation and enhanced neutrophil recruitment characterize immunopathology in the blood of tuberculosis patients. Journal of Infection 89, 106359. https://doi.org/10.1016/j.jinf.2024.106359
* Ahor, H.S., Schulte, R., Adankwah, E., Harelimana, J.D.D., Minadzi, D., **Acheampong, I.**, Vivekanandan, M.M., Aniagyei, W., Yeboah, A., Arthur, J.F., 2023. Monocyte pathology in human tuberculosis is due to plasma milieu changes and aberrant STAT signalling. Immunology 170, 154–166.
* Debrah, L.B., Arthur, J.F., Yeboah, A., Owusu, D.O., Adankwah, E., **Acheampong, I.**, Minadzi, D., Lamptey, M., Opoku, V.S., Aniagyei, W., 2024. Diversity of Culicoides in the middle belt of Ghana with Implications on the transmission of Mansonella perstans; a molecular approach. Parasites & Vectors 17, 123.
* Dansoa, C.S., Anaba, N.Y., Zangine, R.T., Kodji, C., Bonsu, F.A., Abbiw, G.O., **Acheampong, I**., Wireko, S., Domfeh, S.A., 2024. Bacteriuria Among Type 2 Diabetes Mellitus Patients Attending Ejisu Government Hospital in the Ashanti Region, Ghana. International Journal of Microbiology 2024, 1120083.
* Vivekanandan MM, Adankwah E, Aniagyei W, **Acheampong I**, Minadzi D, Yeboah A, et al. Impaired T-cell response to phytohemagglutinin (PHA) in tuberculosis patients is associated with high IL-6 plasma levels and normalizes early during anti-mycobacterial treatment. Infection 2023. https://doi.org/10.1007/s15010-023-01977-1.
* Vivekanandan, M. M., Adankwah, E., Aniagyei, W., **Acheampong, I**., Yeboah, A., Arthur, J. F., Lamptey, M. N. K., Abass, M. K., Gawusu, A., Kumbel, F., Osei-Yeboah, F., Debrah, L. B., Owusu, D. O., Debrah, A., Mayatepek, E., Seyfarth, J., Phillips, R. O., & Jacobsen, M. (2022). Plasma cytokine levels characterize disease pathogenesis and treatment response in tuberculosis patients. Infection. <https://doi.org/10.1007/s15010-022-01870-3>.
* Yeboah, A., Vivekanandan, M., Adankwah, E., Owusu, D.O., Aniagyei, W., Minadzi, D., **Acheampong, I**., Arthur, J.F., Lamptey, M., Abass, M.K., Kumbel, F., Osei-Yeboah, F., Gawusu, A., Debrah, L.B., Debrah, A., Mayatepek, E., Seyfarth, J., Phillips, R.O., Jacobsen, M., 2024. Concomitant parasite infections influence tuberculosis immunopathology and favor rapid sputum conversion of pulmonary tuberculosis patients. Annals of Clinical Microbiology and Antimicrobials 23, 97. <https://doi.org/10.1186/s12941-024-00756-6>

***Other Publications***

* 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. https://bmcinfectdis.biomedcentral.com/articles/10.1186/1471-2334-12-128
* 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. https://www.ajol.info/index.php/jmbs/article/view/77109