

Pet-Paul Wepeba

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Objective

A result driven, meticulous scientist, who enjoys a challenging working environment encompassing both practical and analytical areas; I am a self-motivated person with positive ideas and attitude towards life, dedicated, hardworking and trustworthy. A team player with good interpersonal relationship and always seeking an opportunity to bring about strategic value and enjoy further personal development.

Education

2021 PhD. Forensic Genetics, University of Central Lancashire, Preston, UK

- Relevant Scientific Areas: Molecular and cellular biology, advanced molecular and population genetics in relation with forensic analysis.

2012 MSc. Forensic Science, Anglia Ruskin University, Cambridge UK.

- Relevant Scientific Areas: Forensic biology (blood spatter analysis, body fluid identification etc) toxicology, crime scene management, body print, document, fibre, hair, paint, ink in relation with forensic analysis.

2006 BSc (*Hons*) Biomedical Science, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana.

- Relevant Scientific Areas: Chemical Pathology, Haematology, Microbiology, Histopathology, Anatomy, and Physiology.

Information Technology

- Relevant Scientific Areas: Developed knowledge, technical and self-directed learning skills in computer science, proficient in computer software and troubleshooting, Microsoft office documents such as MS word, Excel spreadsheet and PowerPoint.

Work Experience

2016-2021: Researcher, Forensic Genetics, University of Central Lancashire, Preston, UK

2015 –2016: Ass. Lecturer, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana.

2007– 2015: Biomedical/Forensic Scientist

2008-2010: Lecturer (Part time), Narh-bitu University College, Tema, Ghana

2006-2008: Biomedical Scientist In-charge (Part time), Midway Clinic, Accra, Ghana.

2006 – 2007: Internship, 37 Military Hospital, Accra, Ghana.

2004 – 2006: Laboratory training placements, Komfo Anokye Teaching Hospital, Kumasi, Ghana.

2002 – 2004: Laboratory Trainee Scientist (Vacation Placement) Atibie Government Hospital, Kwahu, Ghana

2000-2002: Laboratory Assistant (Part time), SABS Hospital, Nkawkaw, Ghana

1996-2002: Laboratory Assistant Holy Family Hospital, Nkawkaw, Ghana

Experience & Skills

Communication:

- Strong communication/presentation skills: presented data clearly and confidently to both small and large groups within the UK and abroad, adopting styles and content suitable to the knowledge level of the audience.
- Strong writing and information technology skills: wrote scientific articles in international peer-reviewed journals, as well as the highly technical replies to the questions raised by the reviewers.

Interpersonal skills:

- Collaborated with other scientists, outlining objectives, methodology, and conclusions, actively listening to people, and stimulating interest and discussion.
- Editor and peer reviewer for International Association of Scientists and Researchers (IASR), Science and Justice scientific journals.
- Exchanged constructive feedback and support and learned to share experiences.

Adaptability:

- Collaborated and communicated at all professional levels, and with people from diverse origins and cultures. Can work both independently and in team settings.

Management and organization:

- Managed several projects and collaborations in parallel, planned work to achieve goals and targets on time, set realistic objectives, developed creative solutions to problems.
- Used to seek and critically assess information, to define the cause of problems, determine available options and to use my own experience and that of others to move things forward.

Teaching:

- Supervised and taught B.Sc.; M.Sc. students, adapting to different scientific levels and backgrounds, stimulating discussion and reflection.
- Participated in evaluation of course works and marked MSc. theses.

Professional Competencies & Skills

- Laboratory health & safety: General laboratory management and quality control
- Working knowledge of International Organisation for Standardization (ISO) 17025 procedures in a forensic DNA laboratory.
- Handling ABI 3500 Genetic Analyser and fragment analysis software, GeneMapper IDX.
- Next Generation Sequencing or Massively Parallel Sequencing (NGS/MPS) Analysis
- Bioinformatics: Attended Bioinformatics course at Leicester University. Worked with Arlequin software, Convert, PowerStats software, Structure software, Distruct software, Structure Harvester, Familias software for data analysis, FORSTAT, STRAF GenAIEX etc.
- Proficient in using MS Office and 'R' statistical analysis software.
- Isolation of DNA from various human tissues; Quantitation of DNA extracts using agarose gel electrophoresis, Nanodrop spectrophotometer, Qubit fluorometer and Quantifiler® Trio kit.
- Designing and using Picogreen in Real-time PCR assays and TaqMan® assays on QuanStudio 5 Real-Time PCR machine; PCR and multiplex PCR; Use of forensic multiplex assays like Powerplex 16; Yfiler® Plus; GlobalFiler™ and Fusion® etc.
- Familiar with procedures of an 'expert witness' in legal proceedings – a knowledge attained through expert witness module in taught master's course and observing expert testimonies at the Magistrate court, UK.

Research Theses

- Evaluation of DNA Polymorphisms for Forensic Applications in the Populations of Ghana Using Capillary Electrophoresis and Massively Parallel Sequencing (Thesis submitted in partial fulfilment for the award of PhD.)
- *The effect of high temperature on latent fingerprints and DNA recovery* (Thesis submitted in partial fulfilment for the award of MSc. Forensic Science, 2012)
- *The prevalence of pulmonary tuberculosis at autopsy, at the Komfo Anokye Teaching Hospital, Kumasi, Ghana* (Thesis submitted in partial fulfilment for the award of BSc (Hons) Biomedical Science, 2006)

Professional Memberships

- International Society for Forensic Genetics (ISFG)
- Ghana Academy of Forensic Sciences (GAFS)
- Ghana Association of Medical Laboratory Scientists (GAMLS)

Publications and Presentations

- **Wepeba, P.**, Iyengar, A. and Goodwin, W. (2019) 'Heterozygous 21 STR loci and triplet alleles observed in population genetic analysis of the GlobalFiler STR loci in the Ghanaian population', *Forensic Science International: Genetics Supplement Series*, 7(1), pp. 753-754
- Alsafiah, H.M., Goodwin, W.H., Hadi, S., Alshaikhi, M.A. and **Wepeba, P.P.** (2017) 'Population genetic data for 21 autosomal STR loci for the Saudi Arabian population using the GlobalFiler((R)) PCR amplification kit', *Forensic science international: Genetics*, 31, pp. e59-e61
- Singh R.K , Sharma M, Tarannum A , **Pet-Paul W** , Bernard L. (2018). 'A Case of Three Deltas in a Fingerprint', *Journal of Forensic Research: 9(2)*

Contribution of Forensic Data to International databases:

- Y-chromosome STR Haplotype Reference Database (YHRD) and is available from **YHRD, release 62** (YA004641-Akan; YA004643-Ewe; YA004644-Ga-Adangbe and YA004645- Mole-Dagomba, (2020)
- STRs for Identity ENFSI Reference Database (STRidER) issued with the **accession number STR000270, (2020)**

International Presentations

- The effect of high temperature on latent fingerprint and DNA recovery': 3rd International Conference on Legal Medicine, Medical Negligence and Litigation in Medical Practice and 3rd International Conference on Current Trends in Forensic Sciences, Forensic Medicine and Toxicology, Delhi-India (2012)
- Forensic and population genetic analysis of the GlobalFiler STR loci in the Ghanaian population-Poster presentation, UCLan, UK (2018)
- Forensic and population genetic analysis of the GlobalFiler STR loci in the Ghanaian population-Oral presentation UCLan, UK (2018)
- Heterozygous 21 STR loci and triplet alleles observed in population genetic analysis of the GlobalFiler STR loci in the Ghanaian population-Poster presentation: The 28th Congress of the International Society for Forensic Genetics, Prague-Czech Republic (2019)

AWARD (First prize)

Poster presentation on the topic:

- 'The effect of high temperature on latent fingerprint and DNA recovery' (February 2012), India

Personal Interests

Reading, travelling, and meeting people.

References

Available on request.