

CURRICULUM VITAE
HOMAYEMEM WELI, MD MSC PHD

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Present Position: **Resident**, Clinical Pathology, Barnes-Jewish Hospital / Washington University in St. Louis, MO.

Education and Training:

2019-2021 Postdoctoral Research Associate, Washington University St Louis, in the Lab of Dr. Regina Clemens
2018 Clinical Fellow, Oncology, University Hospital of North Midlands/Royal Stoke, Newcastle-under-Lyme, UK
2013-2018 Ph.D. Cell and Tissue Engineering, Keele University, UK in the Lab of Professor Ying Yang
2015 Senior House Officer, University Hospital of North Midlands, NHS Trust, Newcastle Under Lyme, UK
2012-2013 M.Sc. Cell and Tissue Engineering (with distinction) Keele University, UK
2010-2011 Medical Intern, Braithwaite Memorial Specialist Hospital, Port Harcourt, Nigeria
2004-2010 Bachelor of Medicine, Bachelor of Surgery, University of Ilorin College of Health Sciences Nigeria

Honors and Awards:

2024 Clinical Pathology Trainee of the Month Award, Washington University in St Louis Pathology and Immunology department
2023 Excellence in Research Travel Grant Award by the Missouri Society of Pathologists, USA
2017 1st Prize, turbo talk at the 12th Annual Symposium of the Institute for Science and Technology in Medicine (ISTM), Keele University (Now School of Pharmacy & Bioengineering), UK
2017 People's Choice Poster Award at the Institute of Liberal Arts and Science (ILAS) crossing paths conference, Keele University, UK
2016 1st prize (Team Award) at the European Institute of Innovation and Technology, 2016 Innovation Day, Newcastle University, UK

Board Certification and Licensure:

2022- Temporary license- Missouri State Board of Registration for the Healing Arts, Medical Physician and Surgeon
2014- General Medical Council, United Kingdom
2011 Medical and Dental Council of Nigeria

Professional Societies and Organizations:

- 2022- Association for the Advancement of Blood & Biotherapies
 2022- Academy of Clinical Laboratory Physicians and Scientists
 2022- American Society for Clinical Pathology
 2022- College of American Pathologists

Leadership and Community Service:

- 2023-24 Clinical Pathology Medical Student Liaison, Washington University in St. Louis
 2023- College of American Pathologists Resident Delegate, Washington University in St. Louis
 2023- Medical Student Liaison, Washington University in St. Louis
 2023 Volunteer Interviewer for residency interviews, Washington University in St. Louis and College of American Pathologists mock interviews.
 2022 Inspector, Mock CAP Inspection, Barnes Jewish Hospital Core Lab (Immunology)
 2022 Alternate Representative, PGY 1 Clinical Pathology Trainee Leadership Committee

Teaching and mentoring:

- 2023 Review and discussion of Platelet function test clinical scenarios
 Coagulation case discussions with peers and attending
 Teaching of medical students during Molecular rotation on call service
 Continuing Education for technologists: Essential thrombocythemia; unique features on peripheral blood evaluation
 2022 PGY1 Clinical Pathology Semi-formal study group
 2018 Rounds Medical Student and Intern teaching, Oncology department, University Hospital of North Midlands, NHS Trust, UK
 2016 Biomedical student laboratory experience and mentoring, Guy Hilton Research Centre, Keele University, UK.

Peer Reviewed Publications:

Weli H, Frater JL, Shimer G, Oh ST, Shirai CL. Pseudo-lymphocytosis caused by circulating megakaryocyte fragments in a patient with post-essential thrombocythemia myelofibrosis. *Int J Lab Hematol*. 2024 Jun 14. doi: 10.1111/ijlh.14328. Epub ahead of print. PMID: 38873845.

Weli H, Farnsworth CW. Implementing point-of-care hemoglobin A1C testing in an obstetrics outpatient clinic. *Lab Med*. 2024 Jul 3;55(4):464-470. doi: 10.1093/labmed/lmad112. PMID: 38217552.

Fan Yang, Mingyi Suo*, **Homayemem Weli***, Mason Wong, Alex Junidi, Celeste Cummings, Ryan Johnson, Kiara Mallory, Annie Liu, Zev Greenberg, Laura Schuettpelez, Mark J. Miller, Cliff Luke, Bernd H. Zinselmeyer, Gwen Randolph, Juliane Bubeck Wardenburg and Regina A.(2023) Clemens. Staphylococcus aureus alpha-toxin impairs early neutrophil localization and clustering via electrogenic disruption of store-operated calcium entry. *Cell Reports*, 42(11) 113394. doi.org/10.1016/j.celrep.2023.113394. *denotes equal contribution by the authors

Onwudiwe, O., **Weli, H.**, Shaanu, T., Akata, N., Ebong, I. (2020). Pharmacological Treatment of COVID-19: An Update. *Journal of Global Health Reports*, 4(4), e2020090. <https://doi.org/10.29392/001c.17372>

Weli, H., Akhtar, R., Chang, Z., Li, W., Cooper, J., Yang, Y.. (2017). Advanced glycation products' levels and mechanical properties of vaginal tissue in pregnancy. 214(1), 78-85. PMID: 28494267

Weli, H., Cooper J., Yang, Y. (2017). Skin advanced glycation content reflects vaginal tissue glycation in relation to pregnancy. Full Research Article, 109(1), 84-87.
PMID: 29150302

Weli, H., Cooper, J., Yang, Y.. (2018). New insight into glycation levels and pelvic organ prolapse - A combination of clinical and biochemical studies. 231(1), 129-135 PMID: 30368090.

Peer Reviewed Abstracts:

Homayemem Weli, Christopher Farnsworth, Impact of Implementing Point of Care Hemoglobin A1C Testing in an Obstetrics Outpatient Clinic, American Journal of Clinical Pathology, Volume 160, Issue Supplement_1, November 2023, Page S115.

Selvaraj Giridharan, Apurna Jegannathen, S. Wengalil, Shahid Gilani, **Weli H.** EP1.01-98 Outcomes of Non-small cell lung cancer patients with brain metastasis treated by whole brain radiotherapy, a single institution experience. 2019. Journal of Thoracic Oncology 14(10):S949-S950

Weli H., Cooper J, Yang Y Relationship between ageing and oestrogen receptor expression gives insight into pelvic organ prolapse development. 2015. Mutagenesis.

Weli H., Zhuloa Z, Akhtar R, Cooper J, Yang Y The alteration of structural organization, nano-mechanical property and glycation content of prolapsed vaginal tissues. 2017 Abstract 0056. Blair Bell Abstracts. British Journal of Obstetrics and Gynaecology

Oral Presentations:

6.7.24: Evaluation of 13 discriminant formulas for distinguishing beta thalassemia from iron deficiency anemia. 59th Annual Academy of Clinical Laboratory Physicians and Scientists meeting, Columbia University, New York.

12.5.23: Utility of coagulation factor V levels in predicting need for liver transplantation in Acute Liver Failure. Laboratory and Genomic Medicine (LGM) Case conference, Washington University in St. Louis Pathology and Immunology Department

8.15.23: The role of molecular testing in the diagnosis and assessment of large granular leukemia. LGM Case conference, Washington University in St. Louis Pathology and Immunology Department

5.11.23: The role of EBV PCR in the management of EBV-related malignancies. LGM Case conference, Washington University in St. Louis Pathology and Immunology Department

6.9.2023: Impact of implementing point of care A1C testing in an obstetrics outpatient clinic. Academy of Clinical Laboratory Physicians and Scientists annual meeting, Charlottesville, Virginia, USA.

5.19.2023: *S. aureus* alpha-toxin (Hla) impairs neutrophil function through changes in membrane potential and calcium signaling. Physician-Scientist Training Program Symposium

4.27.2023: Coagulation Testing in Trauma- introducing ROTEM sigma. LGM Grand Rounds

4.18.2023: Impact of implementing point of care A1C testing in an obstetrics outpatient clinic. Trainee Research Day Symposium, Washington University in St. Louis Pathology and Immunology Department

3.3.2023: Acute Myeloid Leukemia: an evolving concept. Hematopathology Journal Club

9.6.2022: The utility of troponin T and I for staging and managing patients with cardiac amyloidosis.

Laboratory and Genomic Medicine (LGM) Case conference

12.6.2022: The utility of pulmonary function testing in guiding plasmapheresis decision in patients with Myasthenia gravis. LGM Case conference

9.6.2022: The utility of troponin T and I for staging and managing patients with cardiac amyloidosis. LGM Case conference

9.29.2022: High complexity ROTEM testing. Chemistry State of the Laboratory meeting

9.9.2022: Incidence of humoral hypercalcemia of malignancy among hypercalcemic patients with cancer. Chemistry Journal Club

11.1.2019: Effect of S. Aureus alpha hemolysin toxin on neutrophil functions. Dinaeur/Clemens laboratory research meeting, Washington University in St Louis

5.1.2014: The effect of ageing and alteration of connective tissue structure on pelvic organ prolapse

9.1.2015: Identifying target proteins. Guy Hilton Research Centre Lunch time protocols, Keele University, UK.

6.1.2018: A Pilot study on the efficacy of pegfilgrastim in comparison to nivistim in the same patients from 2011-2018. Oncology Clinical governance meeting at the University Hospital of North Midlands National Health Service Trust/Newcastle Under Lyme, UK

3.2.2017: An advanced glycation product level and mechanical properties of vaginal tissue during pregnancy in female Sprague Dawley rats. Royal college of Obstetrics and Gynecology and Bell Blair Research Society national conference/London, UK.

11.7.2016: Correlation of ageing, hypertension and estrogen receptor expression with advanced glycation content in prolapsed tissues. British Society of Urogynecologist and Royal College of Obstetrics and Gynecology National Conference/London, UK.

Poster Presentations:

2.18.2023 and 10.17.23: The utility of therapeutic plasmapheresis in the management of acetyl choline receptor positive myasthenia gravis poorly responsive to thymectomy. Washington University in St Louis Inaugural Pediatric Rare Disease symposium and Association for the Advancement of Blood and Biotherapies, Nashville TN.

2.29.24: Pseudo-lymphocytosis in an unusual case of essential thrombocythemia: a laboratorian's perspective. Washington University in St Louis Pediatric Rare Disease symposium.