CURRICULUM VITAE

ODIANOSEN EIGBIRE-MOLEN, M.D.
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PERSONAL DATA

Office Address: Arkana Laboratories
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EDUCATION

Georgetown University School of Medicine
M.D, 08/01/2013 - 05/21/2017

Washington University in St. Louis
B.S, Biomedical Engineering, 08/29/2005 - 05/18/2007

Regis University
B.S, Mathematics, 01/09/2003 - 05/06/2007
Magna cum Laude

BOARD CERTIFICATION

Diplomate of the American Board of Pathology, May 25th 2021 (Board certified in Anatomic and Clinical Pathology).

HONORS AND AWARDS

The Stowell-Orbison/Surgical Pathology/Autopsy Award, USCAP 2023.
The Renal Pathology Society Liliane Striker Young Investigator Award, 2022.
The Georgetown University Pellegrino Center for Clinical Bioethics, Annual Bioethics Award, 2017.
Saint Louis University Medical Center Department of Pathology Microscopic Photo Contest Winner, 2019.
The American Society of Hematology Minority Medical Student Award, 2014 & 2015.
Honorable mention, COMAP Mathematical Contest in Modelling 2004.

EMPLOYMENT

Renal Pathologist, Arkana Laboratories, 07/2023 - Current

Jr. Attending, Renal Fellowship, Arkana Laboratories, 07/2022 - 06/2023

EXPERIENCE

Pathology Resident, St. Louis University Hospital, 07/2017-06/2021.
Participated in sign-out reporting of surgical biopsies and resection specimens including bone marrow and lymph node biopsies. Provided clinical laboratory, blood bank, and apheresis support by recommending the next best test for patient management, working up transfusions reactions, and overseeing apheresis procedures. Presented cases for discussion at Lung and Melanoma tumor boards. Taught medical and dental students pulmonary pathology laboratory, gastrointestinal and liver pathology, bone and soft tissue pathology lectures. Performed yearly quality review of all autopsies performed which lead to better standardization of autopsy reports.
Office of graduate medical education Wellness champion representative for the department of pathology.

Medical student, Georgetown University School of Medicine, 08/2013-05/2017.
President, Radiology Interest Group, 09/2015-07/2016
Organized speaker events for first and second year medical students to explore their interests in radiology. Speakers included radiology faculty, residents and 4th year matches.
Managed the group budget of $300/ academic year.

Medical Student Volunteer, HOYA Clinic DC, 09/2013-07/2015
Volunteered 30 hours of community service at Hoya clinic, a free student run clinic in DC. Provided direct patient care including obtaining vitals, clinical history and proposing a treatment plan to the attending.

Medical Student Volunteer, SNMA Health Fair, 2013 & 2016
Volunteered at the blood pressure booth: Discussed patient's health history, performed blood pressure checks, provided diet and exercise counselling.

Summer medical student researcher, Children's National Medical Center, DC, 2014 & 2015.
Contributed to an IRB approved retrospective study using Brain MRI's to compare brain volumes of adolescents with sickle cell disease against age and gender matched healthy controls (see publications).

Process Engineer, PowerVision Inc. Belmont CA, 09/2008-07/2013.
R&D process engineer for a startup medical device company developing an accommodating intraocular lens (A-IOL) for cataract eye surgery. Responsibilities included developing and characterizing new acrylic materials for the accommodating intraocular lens, executing and reporting ISO verification protocols for regulatory submission.

Research Associate, Apieron Inc. Menlo Park CA, 10/2007-08/2008.
Member of a startup team that built an FDA approved medical device to determine the severity

of airway inflammation in asthma patients. The device measured the levels of nitric oxide from the patient's exhaled breath as a possible marker of airway inflammation. Responsibilities were designing and executing calibration protocols for the device, and sensor performance characterization including interference testing for regulatory submission.

Undergraduate Research Assistant, Washington University Medical Center, St Louis, MO 06/2006-05/2007.
Processed and analyzed gene chip data for clinical research to understand mammalian immune response to infection. Wrote R scripts that determined differentially expressed genes. Generated graphs annotated tables of target gene probes with links to online gene databases and prepared plots for presentations.

Undergraduate Research Assistant Mechanics Lab, Washington University, St Louis, MO 02/2006 – 12/2006.
Developed an instrument to characterize the mechanical properties of biological tissue to support ongoing research on bioartificial tissue constructs. Designed and implemented a new pivot assembly on the instrument that provided variable stretch amplitude. Repaired/installed electrical and mechanical parts, including a stepper motor control and other fixtures.

ABSTRACTS AND PUBLICATIONS

Machine Learning Classification of Kidney Biopsy Smartphone Images For Adequacy Assessment. Odianosen J. Eigbire-Molen, Clarissa A. Cassol, Shana M. Coley, Daniel J. Kenan, Johnathan O. Napier, Shree G. Sharma. **ASN Kidney Week 2023 (in review).**

Post-transplant Outcomes of Patients with End-Stage Renal Disease Caused by Lupus Nephritis. Odianosen Eigbire-Molen MD, Johnathan O. H. Napier MS, Shana M. Coley MD PhD, Tiffany N. Caza MD PhD. **USCAP Annual Meeting 2023.**

Evaluation of the Response To Oral Budesonide By the New Histology Scoring System Developed For Eosinophilic Esophagitis Patients. Peyman Dinarvand, Odianosen Eigbire-molen, Miguel A Guzman, Danielle Carpenter. Abstract, **USCAP Annual Meeting 2020.**

Pernicious Anemia: An Unrecognized Risk Factor For Hip Fracture. Madison Hibshman, Lucas Gu, Odia Eigbire-Molen, Adam Fritz. Abstract, **ACP Missouri Annual Meeting 2019.**

Progressive loss of brain volume in children with sickle cell anemia and silent cerebral infarct: A report from the silent cerebral infarct transfusion trial. Deepika S. Darbari, Odianosen Eigbire-Molen, Maria R. Ponisio, Mikhail V. Milchenko, Mark J. Rodeghier, James F. Casella, Robert McKinstry, Michael R. DeBaun. **Am J Hematol. 2018;93(12):E406-E408.**

Progressive Loss of Brain Volume in Children with Sickle Cell Anemia: A Report from the Silent Cerebral Infarct Transfusion Trial Cohort. Odianosen Eigbire-Molen, Deepika S. Darbari, Maria R. Ponisio, Mikhail V. Milchenko, Mark J. Rodeghier, James F. Casella, Robert McKinstry, Michael R. DeBaun. Abstract, **Blood, Dec 2015, 126 (23) 546**; *Available at: http://www.bloodjournal.org/content/126/23/546.*

Fragile X Syndromes' Impact on Development. Benjamin Tom, Mark Amirtharaj, Jessica Hawken. Current Opinions in Sexual Development and Reproduction. **An academic journal of the School of Medicine, Georgetown University Medical Center, Volume 5 (M1); 2014.**

ORAL PRESENTATIONS

"Machine Learning for Renal Pathology"
Oral presentation, Arkana Laboratories, Arkansas, 02/2023.

"IgA Nephropathy: From MEST to MEST-C"
Oral presentation, Arkana Laboratories, Arkansas, 01/2023.

"Lysozyme-Induced Nephropathy"
Oral presentation, Arkana Laboratories, Arkansas, 10/2022.

"Lenvatinib-Induced TMA"
Oral presentation, Arkana Laboratories, Arkansas, 11/2022.

"Progressive Loss of Brain Volume in Children with Sickle Cell Anemia"
Oral presentation, American Society of Hematology Annual Meeting, Florida, 12/2015.

"Brain Volumes of Adolescent Patients with Sickle Cell Disease"
Oral presentation, American Society of Hematology Annual Meeting, San Francisco, 12/2014.

MEMBERSHIPS

Renal Pathology Society

United States and Canadian Academy of Pathology

American Society of Clinical Pathology

American Society of Nephrology

American Society of Hematology

OTHER SKILLS

Digital Pathology and Machine Learning (Keras, TensorFlow).

Chemical analysis skills including GC, HPLC, and UV-Vis spectrophotometry.
Familiar with UV and thermal curing processes, and plasma treatment.
Statistics programs: Jmp, R.
Programming: Python, Matlab.