Olorunseun Ogunwobi

Professor of Biology

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Education:

- MBBS., 2000, College of Medicine, University of Ibadan, Nigeria
- M.S., 2004, University of Hull, United Kingdom

- Ph.D., 2007, University of East Anglia, United Kingdom
- Post doc., 2007-2014, University of East Anglia/Virginia Commonwealth University/University of Florida

Research Interest:

- **Cancer Biology**

The overall goal of our laboratory is to elucidate the mechanisms of metastasis in solid cancers. Ongoing studies include examination of the role of circulating tumor cell biology and epigenetics in the metastasis of solid cancers. Also, our laboratory is investigating the biological mechanisms underlying the racial disparities in specific solid cancers. The cancer models we are currently focused on are hepatocellular carcinoma, pancreatic cancer, colon cancer, and prostate cancer.

Selected Publications:

- Zambrano CN, Lu W, Johnson C, Beeber M, Panitz A, Ibrahim S, Fraser M, Ma GX, Navder K, Yeh M, Ogunwobi OO. Dietary behavior and urinary gallic acid concentration differences among underserved elder racial and ethnic minorities in New York City. Cancer Causes & Control. 2022, doi: 10.1007/s10552-022-01581-y.
- Awah C, Winter J, Ogunwobi OO. Genome scale CRISPR Cas9a knockout screen reveals genes that control glioblastoma susceptibility to the alkylating agent temozolomide. All Life. 2022, 15 (1): 88–93, DOI: https://doi.org/10.1080/26895293.2021.2024895 .
- Akingboye A, Mahmood F, Amiruddin N, Reay M, Nightingale P, Ogunwobi OO. Increased risk of COVID-19 related admissions in active solid organ cancer patients in the West Midlands region of the United Kingdom: A Retrospective cohort study. BMJ Open. 2021;11: e053352. DOI: http://dx.doi.org/10.1136/bmjopen-2021-053352 .
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- Naidoo M, Levine F, Gillot T, Orunmuyi AT, Olapade-Olaopa EO, Ali T, Krampis K, Pan C, Dorsaint P, Sboner A and Ogunwobi OO. MicroRNA-1205 regulation of FRYL in prostate cancer. Frontiers in Cell and Developmental Biology. 2021, 9:647485. DOI: 10.3389/fcell.2021.647485.
- Asante-Asamani E, Pal G, Liu L, Ogunwobi OO. Prostac: a new composite score with potential predictive value in prostate cancer. Front. Oncol. 2021, 11:644665. DOI: 10.3389/fonc.2021.644665.
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- Beales ILP, Ogunwobi OO. Leptin activates Akt in oesophageal cancer cells via multiple atorvastatin-sensitive small GTPases. Molecular and Cellular Biochemistry 2021; doi: 10.1007/s11010-021-04067-8.
- Ogunwobi OO, Segura MF. Editorial: PVT1 in cancer. Front. Oncol. 2020, 10: 588786; doi: 10.3389/fonc.2020.588786.
- Ogunwobi OO, Mahmood F, Akingboye A. Biomarkers in Colorectal Cancer: Current Research and Future Prospects. Int. J. Mol. Sci. 2020, 21(15), 5311; https://doi.org/10.3390/ijms21155311 .

- Huaman J, Ogunwobi OO. Circulating Tumor Cell Migration Requires Fibronectin Acting through Integrin B1 or SLUG. Cells 2020, 9(7), 1594; https://doi.org/10.3390/cells9071594 .
- Pal G, Di L, Orunmuyi A, Olapade-Olaopa EO, Qiu W, Ogunwobi OO. Population Differentiation at the PVT1 Gene Locus: Implications for Prostate Cancer. G3: Genes, Genomes, Genetics, 2020; 10 (7): 2257-2264.
- Onagoruwa OT, Pal G, Ochu C, Ogunwobi OO. Oncogenic Role of PVT1 and Therapeutic Implications. Front. Oncol. 2020, 10:17, doi: 10.3389/fonc.2020.00017.
- Alegbeleye BJ, Ogunwobi OO. Primary Diffuse Large B-Cell Lymphoma of the Breast: A Rare Case Report and Review of the Literature. International Journal of Scientific Advances. 2020, 1 (2): 79-86.
- T.I. Shireman, A.C. Adia, Y. Tan, L. Zhu, J. Rhee, O.O. Ogunwobi, G.X. Ma, Online Versus In-Person Training of Community Health Workers to Enhance Hepatitis B Virus Screening Among Korean Americans: Evaluating Cost & Outcomes, Preventive Medicine Reports (2020), doi: https://doi.org/10.1016/j.pmedr.2020.101131 .
- Pal G, Ogunwobi OO. Copy number - based quantification assay for non - invasive detection of PVT1 - derived transcripts. PLoS ONE. 2019, 14(12): e0226620. https://doi.org/10.1371/journal.pone.0226620
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- Pal G, Huaman J, Levine F, Orunmuyi AT, Olapade-Olaopa EO, Onagoruwa OT, Ogunwobi OO. Long Noncoding RNA from PVT1 Exon 9 Is Overexpressed in Prostate Cancer and Induces Malignant Transformation and Castration Resistance in Prostate Epithelial Cells. Genes. 2019, 10(12), 964; https://doi.org/10.3390/genes10120964 .
- Harricharran T, Ogunwobi OO. Oxytocin and oxytocin receptor alterations decreased survival and increased chemoresistance in patients with pancreatic cancer. Hepatobiliary & Pancreatic Diseases International. 2020, DOI: 10.1016/j.hbpd.2019.12.002.
- Anand P, Filipenko P, Huaman J, Lyudmer M, Hossain M, Santamaria C, Huang K, Ogunwobi OO, Holford M. Selective inhibition of liver cancer cells using venom peptide. Marine Drugs. 2019, 17(10), 587; https://doi.org/10.3390/md17100587 . Featured in PBS/NOVA's "Beyond the Elements: Reactions": https://www.pbs.org/wgbh/nova/video/beyond-the-elements-reactions/

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- Huaman J, Naidoo M, Zang X, Ogunwobi OO. Fibronectin Regulation of Integrin B1 and SLUG in Circulating Tumor Cells. Cells 2019, 8, 618.
- Derderian C, Orunmuyi AT, Olapade-Olaopa EO, Ogunwobi OO. PVT1 signaling is a mediator of cancer progression. Front. Oncol. 2019; 9: 502.
- Halpern, M. T., Dodd, SJ, Fang, C. Y., Tan, Y., Zhu, L., Ogunwobi, O. O. & Ma, G. X. Evaluation of a transdisciplinary cancer research training program for under-represented minority students. Informing Science Institute. 2019: 99 -108; https://doi.org/10.28945/4343 .
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