

Dr Oluseye A. Ogunbayo's Publications

• 2025

- Mandara Muralidhar Harikar, Tejas Venkataram, Shreyas Kashyap, **Oluseye Abayomi Ogunbayo**, Benjamin Aribisala (2025). Prediction of stroke in symptomatic carotid stenosis using machine learning and its implications on clinical trial enrichment. **J Med Artif Intell** 2025. <https://dx.doi.org/10.21037/jmai-24-197> (2025). doi: 10.21037/jmai-24-197

• 2024

- Tejas Venkataram, Shreyas Kashyap, Mandara M. Harikar, Francesco Inserra, Fabio Barone, Mario Travali, Valerio Da Ros, Giuseppe E. Umana, **Oluseye A. Ogunbayo**, Benjamin Aribisala (2024). The application of machine learning for treatment selection of unruptured brain arteriovenous malformations: A secondary analysis of the ARUBA trial data. **Clinical Neurology and Neurosurgery** (2024). <https://doi.org/10.1016/j.clineuro.2024.108681>
- Omolara Adenaike, Evelyn N. Fatokun, Grace O. Abapka, **Oluseye A. Ogunbayo** (2024). DETECTION METHODS OF FOODBORNE PATHOGENS. **Carpathian Journal of Food Science and Technology**, 2024, 16(3), 167-191. <https://doi.org/10.34302/crpjfst/2024.16.3.14>

• 2023

- Ssemanda, I., Kalembe, B., Vonje, R. J., Mwengwe, K., Tukei, O.J.M., **Ogunbayo, O.A.**, (2023). Evaluating the implementation outcome acceptability of the Eight Antenatal Care contacts, and modelling the predictors that determine compliance by women attending Antenatal care clinics in Wakiso district. doi: <https://doi.org/10.1101/2023.01.06.23284275>

• 2021

- Ssemanda, I., Kaonga, P., Jacob, C. Tukei, O.J.M., **Ogunbayo, O.A.**, (2021). Effectiveness and efficacy of implementing the "SAFE" strategy for the elimination of trachoma and other related blindness in African communities: A Systematic Review and a meta-analysis. **International Journal of Innovative Research and Knowledge**. Volume-6 Issue-11, November 2021

• 2019

- Amira D Mahmoud, Andrew P. Holmes, Sandy Macmillan, **Oluseye A. Ogunbayo**, Prem Kumar, Marc Foretz, Benoit Viollet A. Mark Evans (2019). *The hypoxic ventilator response is supported by the activation of LKB1-AMPK signalling pathways downstream of the carotid bodies*. **Biorxiv**, The preprint server for Biology doi: <https://doi.org/10.1101/604900>.

• 2018

- **Oluseye A. Ogunbayo**, Jingxian Duan, Jian Xiong, Qiaochu Wang, Xinghua Feng, Jianjie Ma, Michael X. Zhu, and A. Mark Evans (2018). *mTOR controls lysosomal Ca²⁺ release through the two-Pore channel TPC 2*. **Sci Signal**. 11(525): doi:10.1126/scisignal. aao5775.

• 2016

- Mark Evans, Nicola Fameli, **Oluseye A. Ogunbayo**, Jingxian Duan, Jorge Navarro-Dorado (2016). *From contraction to gene expression: nanojunctions of the sarco/endoplasmic reticulum deliver site- and function specific calcium signals*. **Science China Life Sciences**. Vol. 59 No. 7: 1-15. Doi: 10.1007/s11427-016-5071-0
- Maja Tarailo-Graovac, Ph.D., Casper Shyr, Ph.D., Colin J. Ross, Ph.D., Gabriella A. Horvath, M.D., Ph.D., Ramona Salvarinova, M.D., Xin C. Ye, M.Sc., Lin-Hua Zhang, Ph.D., Amit P. Bhavsar, Ph.D., Jessica J.Y. Lee, B.Sc., Britt I. Drögemöller, Ph.D., Mena Abdelsayed, Ph.D., Majid Alfadhel, M.D., Linlea Armstrong, M.D., Matthias R. Baumgartner, M.D., Ph.D., Patricie Burda, Ph.D., Mary B. Connolly, M.D., Jessie Cameron, Ph.D., Michelle Demos, M.D., Tammie Dewan, M.D., Janis Dionne, M.D., A. Mark Evans, Ph.D., Jan M. Friedman, M.D., Ph.D., Ian Garber, M.D., Suzanne Lewis, M.D., Ph.D., Jiqiang Ling, Ph.D., Rupasri Mandal, Ph.D., Andre Mattman, M.D., Margaret McKinnon, M.D., Aspasia Michoulas, M.D., Daniel Metzger, M.D., **Oluseye A. Ogunbayo, Ph.D.**, Bojana Rakic, Ph.D., Jacob Rozmus, M.D., Peter Ruben, Ph.D., Bryan Sayson, B.Sc., Saikat Santra, M.D., Kirk R. Schultz, M.D., Kathryn Selby, M.D., Paul Shekel, Ph.D., Sandra Sirrs, M.D., Cristina Skrypnik, M.D., Andrea Superti-Furga, M.D., Ph.D., Stuart E. Turvey, M.D., Ph.D., Margot I. Van Allen, M.D., David Wishart, Ph.D., Jiang Wu, Ph.D., John Wu, M.D., Dimitrios Zafeiriou, M.D., Ph.D., Leo Kluijtmans, Ph.D., Ron A. Wevers, Ph.D., Patrice Eydoux, Ph.D., Anna M. Lehman, M.D., Hilary Vallance, M.D., Sylvia Stockler-Ipsiroglu, M.D., Ph.D., Graham Sinclair, Ph.D., Wyeth W. Wasserman, Ph.D., and Clara D. van Karnebeek, M.D.,

Ph.D. (2016). *Exome Sequencing and the Management of Neurometabolic Disorders*. DOI: 10.1056/**New England Journal of Medicine** oa1515792

➤ Mahmoud AD, Lewis S, Juričić L, Udoh UA, Hartmann S, Jansen MA, **Ogunbayo OA**, Puggioni P, Holmes AP, Kumar P, Navarro-Dorado J, Foretz M, Viollet B, Dutia MB, Marshall I, Evans AM. (2016). *AMP-activated Protein Kinase Deficiency Blocks the Hypoxia Ventilatory Response and Thus Precipitates Hypoventilation and Apnea*. **Am J Respir. Crit. Care Med.** 193(9): 1032-43. doi: 10.1164/rccm.201508-1667OC.

• **2015**

➤ Evans AM, Lewis SA, **Ogunbayo OA**, Moral-Sanz J. (2015). *Modulations of the LKB1-AMPK Signalling Pathway Underpins Hypoxic Pulmonary Vasoconstriction and Pulmonary Hypertension*. **Adv Exp Med Biol.** 860:89-99. doi: 10.1007/978-3-319-18440-1_11. Review.

➤ **Oluseye A. Ogunbayo**, Yingmin Zhu, Bing Shen, Ejaife Agbani, Jie Li, Jianjie Ma, Michael X. Zhu, A. Mark Evans (2015). *Organelle-specific subunit interactions of the vertebrate Two Pore Channel Family*. **J Biol. Chem.** 290(2): 1086-95. doi: 10.1074/jbc.M114.610493.

• **2014**

➤ Nicola Fameli, **Oluseye A. Ogunbayo**, Cornelis van Breemen, A. Mark Evans (2014). *Cytoplasmic Nanofunctions Between Lysosomes and Sarcoplasmic Reticulum Are Required for Specific Calcium Signaling*. **F1000Res.**3:93. doi: 10.12688/f1000research.3720.1. eCollection 2014.

• **2013**

➤ **Ogunbayo A. Oluseye** and Michelangeli Francesco (2013). *Related flavonoids cause cooperative inhibition of the sarcoplasmic reticulum Ca^{2+} ATPase by multimode mechanisms*. **FEBS J.** doi: 10.1111/febs.12621.

• **2011**

➤ Adisa R.A., **Ogunbayo O.A.**, Olorunsogo O.O., Ademowo O.G (2011). *Sulphadoxine- pyrimethamine alters the antioxidant defense system in blood of rabbit*. **Niger. J. Physiol. Sci.** 26 (December 2011) 207 – 211.

➤ **Ogunbayo OA**, Zhu Y, Rossi D, Sorrentino V, Ma J, Zhu MX, Evans AM. (2011). *Cyclic adenosine diphosphate ribose activates ryanodine receptors, whereas NAADP activates two-pore domain channels*. **J. Biol Chem.** 286(11):9136-40.

➤ Ross FA, Rafferty JN, Dallas ML, **Ogunbayo O**, Ikematsu N, McClafferty H, Tian L, Widmer H, Rowe IC, Wyatt CN, Shipston MJ, Peers C, Hardie DG, Evans AM. (2011). *Selective expression in carotid body type I cells of a single splice variant of the large conductance calcium- and voltage-activated potassium channel confers regulation by AMP-activated protein kinase*. **J Biol Chem.** 286(14):11929-36.

➤ **Ogunbayo, O.A.**, Zhu, Y., Agbani, E., Evans, A.M., Zhu, M.X. (2011). *Cross-talk between acidic compartments and the endoplasmic reticulum Ca^{2+} store triggered by Ca^{2+} release via two-pore segment channels*. *Biophysical Journal - BIOPHYS J* 01/2011; 100 (3). Pg 82a. DOI:10.1016/j.bpj.2010.12.657

• **2010**

➤ Hawley SA, Ross FA, Chevtzoff C, Green KA, Evans A, Fogarty S, Towler MC, Brown LJ, **Ogunbayo OA**, Evans AM, Hardie DG. (2010). *Use of cells expressing gamma subunit variants to identify diverse mechanisms of AMPK activation*. **Cell Metab.** 11(6):554-65.

• **2009**

➤ Evans AM, Hardie DG, Peers C, Wyatt CN, Viollet B, Kumar P, Dallas ML, Ross F, Ikematsu N, Jordan HL, Barr BL, Rafferty JN, **Ogunbayo OA**. (2009). *Ion channel regulation by AMPK: the route of hypoxia-response coupling in the carotid body and pulmonary artery*. **Ann N Y Acad. Sci.** 1177: 89- 100.

➤ Francesco Michelangeli, **Oluseye A. Ogunbayo**, Laura L. Wootton, Shahla Z. Khan, Pei F. Lai, Fawaz Al-Mousa, Robert M. Harris, Rosemary H. Waring & Christopher J. Kirk (2008). *Endocrine disrupting alkylphenols: Structural requirements for their adverse effects on Ca^{2+} pumps, Ca^{2+} homeostasis and Sertoli TM4 cell viability*. **Chem. Biol. Interact.** 176 (2-3): 220-226.

- **2008**

- **Oluseye A. Ogunbayo**, Robert M. Harris, Rosemary H Waring, Christopher J. Kirk & Francesco Michelangeli (2008). *Inhibition of the Sarcoplasmic / Endoplasmic Reticulum Ca^{2+} -ATPase (SERCA) by Flavonoids: A Quantitative Structure-Activity Relationship Study*. **IUBMB Life**. 60 (12): 853-8.

- **Ogunbayo, O.A**, Lai, P.F, Connolly, T.J & Michelangeli, F. (2008). *Tetrabromobisphenol A (TBBPA), induces cell death in TM4 Sertoli cells by modulating Ca^{2+} transport proteins and causing dysregulation of Ca^{2+} homeostasis*. **Toxicology in Vitro** 22: 943 - 952.

- **2007**

- **Oluseye A. Ogunbayo** & Francesco Michelangeli (2007). *The widely utilized brominated flame retardant, Tetrabromobisphenol A, is a potent inhibitor of SERCA Ca^{2+} pumps*. **Biochem J**. 408 (3): 407- 415.

- **Oluseye A. Ogunbayo**, Karina T. Jensen & Francesco Michelangeli. (2007). *The Interaction of the brominated Flame-Retardant: Tetrabromobisphenol A with Phospholipid Membranes*. **Biochimica et Biophysica Acta** 1768 (2007) 1559- 1566.

- **2006**

- **OA. Ogunbayo**, RA. Adisa, OG. Ademowo & OO. Olorunsogo (2006). *Incidence of Chloroquine Induced Oxidative Stress in the Blood of Rabbit*. **International Journal of Pharmacology** 2(1): 121-125.

- **2005**

- Francesco Michelangeli, **Oluseye A. Ogunbayo** & Laura Wotton (2005). *A plethora of Interacting Organellar Ca^{2+} stores*. **Current Opinion in Cell Biology**. 17:135- 140.

- **2004**

- George O. Ademowo, **Abayomi O. Ogunbayo**, Adetutu R. Adisa & Olufunso O. Olorunsogo (2004). *Effect of Chloroquine on the oxidative System and Lipid-peroxidation*. **The American journal of Tropical Medicine and Hygiene** (supplement). Vol. 71 Number 4 (Oct). Page 185.