PROFESSOR AMOS OLALEKAN ABOLAJI
Professor of Biochemistry

Affiliations:

1. Department of Biochemistry, College of Medicine, University of Ibadan, Nigeria
2. Team Lead, *Drosophila* Research & Training Centre (DRTC), Basorun, Ibadan

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1. EDUCATION AND TRAINING

Institution and Location	Degree	Year	Field of Study
Obafemi Awolowo University, Ile-Ife, Osun State, Nigeria	B.Sc.	1998	Biochemistry
University of Lagos, Lagos, Nigeria	M.Sc.	2003	Biochemistry
University of Calabar, Calabar, Nigeria	Ph.D.	2010	Biochemistry

2. PROFESSIONAL PROFILE

Amos Olalekan Abolaji is a Professor of Biochemistry in the Molecular Drug Metabolism and Toxicology Unit, Department of Biochemistry, Faculty of Basic Medical Sciences, College of Medicine, University of Ibadan. He earned his B.Sc. in Biochemistry from Obafemi Awolowo University, Ile-Ife (1998), his M.Sc. from the University of Lagos (2003) and his Ph.D. from the University of Calabar (2010). He is the current Deputy Provost (Administration), Postgraduate College, University of Ibadan (2024-2026)

His research lies at the interface of molecular toxicology, oxidative stress biology and disease modelling. Working with both rodent and Drosophila melanogaster models, he has led and co-led projects that elucidate the redox and molecular mechanisms through which environmental contaminants exert their effects, and that examine how phytochemicals can confer protection against them. Over the course of his career, he has supervised more than 140 undergraduate, master's and doctoral students, and currently supervises or co-supervises six Ph.D. candidates at the University of Ibadan; a record that reflects his ability to build, mentor and sustain a productive research team.

In 2014, following postdoctoral training at the Federal University of Santa Maria, Brazil, Professor Abolaji established the first Drosophila melanogaster laboratory in the Department of Biochemistry at the College of Medicine, University of Ibadan (DROSLABUI). Now well equipped, the laboratory maintains active collaborations with scientists in the United Kingdom, the United States, Germany, Spain and Brazil, and has trained staff and students from 21 Nigerian institutions in the use of Drosophila for experimental medicine.

Since 2019 he has served as a Visiting Lecturer on the M.Sc. in International Health and Tropical Medicine at the Nuffield Department of Medicine, University of Oxford. The role followed a 2018 Africa-Oxford Visiting Fellowship in the Department of Biochemistry (Ilan Davis' laboratory), where he received further training in Drosophila imaging.

Professor Abolaji has received numerous awards and fellowships, among them are the WHO/TDR Travel Fellowship to the Fifth MIM Pan-African Malaria Conference in Nairobi (2009), the CNPq-TWAS Postdoctoral Fellowship at the Federal University of Santa Maria, Brazil (2013–2014), the SOT/AstraZeneca Endowment Fund Travel Award (2015) and the Africa-Oxford Visiting Fellow Award

(2018). His research has been supported by a CRP-ICGEB grant (2018), Cambridge-Africa ALBORADA Research Grants (2016, 2018 and 2026) and an International Society for Neurochemistry CAEN grant (2016). He is a member of the Society of Toxicology, the Society for Redox Biology and Medicine, the European Teratology Society, the Genetics Society of America and the Neuroscience Society of Nigeria. He has authored more than 90 peer-reviewed publications and, according to Google Scholar, holds an h-index of 32, more than 3,600 citations and an i10-index of 67 (July 2026). His work is underpinned by international collaborations spanning Africa, Brazil, Europe, the United Kingdom and the United States.

Alongside his university appointment, Professor Abolaji serves, on a non-salaried basis, as Team Lead of the Drosophila Research and Training Centre (DRTC LTD/GTE; Company Reg. No. 1783524; www.drosophilartc.org). A non-profit institute, the DRTC advances the use of Drosophila melanogaster as a cost-effective, genetically tractable model organism for biomedical research and training across sub-Saharan Africa. It works closely with DROSLABUI, supporting postgraduate students with consumables, training and access to facilities, and has donated laboratory consumables and basic equipment to research groups in institutions across Nigeria.

3. ACADEMIC AND PROFESSIONAL APPOINTMENTS

2021 - date	Professor of Biochemistry, Department of Biochemistry, University of Ibadan, Nigeria.
2019 - date	Team Lead (Non-Salaried), *Drosophila* Research and Training Centre (DRTC), Basorun, Ibadan, Nigeria.
2019 - date	Visiting Lecturer, M.Sc. International Health and Tropical Medicine, University of Oxford, UK.
2018	Academic Visitor / AfOx Fellow, Department of Biochemistry, University of Oxford, UK.
2017 - date	DrosAfrica Collaborator.
2017 - 2021	Associate Professor, Department of Biochemistry, University of Ibadan, Nigeria.
2014 - 2017	Senior Lecturer, Department of Biochemistry, University of Ibadan, Nigeria.
2011 - 2014	Lecturer I, Department of Biochemistry, University of Ibadan, Nigeria.
2007 - 2011	Lecturer, Covenant University, Ota, Ogun State, Nigeria.

4. HONOURS, FELLOWSHIPS AND AWARDS

1. **2018 Africa-Oxford Initiative Fellowship (Academic Visitor)** - Department of Biochemistry, University of Oxford, UK (August-September 2018).
2. **SOT/AstraZeneca Endowment Fund Travel Award** - to attend and present at the 2015 Society of Toxicology Annual Meeting, March 22-26, 2015, San Diego, CA, USA.
3. **2012/2013 CNPq-TWAS Postdoctoral Fellowship Award** - awarded by the Brazilian National Council for Scientific and Technological Development (CNPq) and TWAS (The Academy of Sciences for the Developing World) to investigate “Molecular and Biochemical Toxicity Studies on 4-Vinylcyclohexene and its Metabolites in *Drosophila melanogaster* Model” at the Federal University of Santa Maria, Brazil (April 2013-March 2014).
4. **2008/2009 Joint NAM S&T-ICCBS Ph.D. Sandwich Fellowship** - Non-Aligned and Other Developing Countries Science and Technology Centre, India, in conjunction with the International Centre for Chemical and Biological Sciences (ICCBS), University of Karachi, Pakistan; to conduct part of Ph.D. bench work at the Dr Panjwani Centre for Molecular Medicine and Drug Research, University of Karachi, Pakistan.

5. RESEARCH GRANTS (SELECTED)

1. Cambridge-Africa ALBORADA Research Fund, UK - FLY-NEUROCAN Workshop: Frontiers in *Drosophila* Research for Neurodegeneration and Cancer (2026).

2. International Centre for Genetic Engineering and Biotechnology (ICGEB), Trieste, Italy - FLY-NEUROCAN Workshop: Frontiers in *Drosophila* Research for Neurodegeneration and Cancer (2025-2026).
3. Company of Biologists, UK - FLY-NEUROCAN Workshop: Frontiers in *Drosophila* Research for Neurodegeneration and Cancer (2026).
4. Motsepe Foundation / Harvard University - Discovering the Molecular Mechanisms Underlying Toxicity of Environmental Pollutants in Nigeria (2023-2025).
5. CRP-ICGEB, Trieste, Italy - Unravelling the molecular therapeutic mechanisms of resveratrol rescue-driven in *Drosophila melanogaster* models of Parkinson's Disease (2019-2024).
6. Committee for Aid and Education in Neurochemistry (CAEN, Category 1B) - Possible chemopreventive mechanism of xanthophyll carotenoid astaxanthin (ATX) against neurotoxin MPTP-induced Parkinsonism in *Drosophila melanogaster* (2017).
7. Cambridge-Africa ALBORADA Research Fund - Building capacity for developmental biology research through analysis of the ovotoxic effects of 4-vinylcyclohexene (VCH) and its metabolites in the egg chamber of *Drosophila melanogaster* (2017).
8. ICGEB Workshop Grant - DrosAfrica-ICGEB Course, "*Drosophila melanogaster* in Biomedical Research: Low Cost and Profitable", University of Ibadan, Nigeria, 18-29 July 2017.
9. AXA Mansard Insurance-PIUTA Ibadan Centre Mini Fellowship - Biochemical mechanisms of toxicity of the ovotoxic carcinogen 7,12-dimethylbenz[a]anthracene in a *Drosophila melanogaster* model (2016).
10. Thomas-Basir Biomedical Foundation - Toxicological mechanisms of the ovotoxicant and carcinogen 7,12-dimethylbenz(a)anthracene (DMBA) in *Drosophila melanogaster* (2015).

6. MEMBERSHIP OF LEARNED SOCIETIES

- Society of Toxicology, USA
- American Society of Biochemistry and Molecular Biology
- Genetics Society of America
- Africa Society for Drosophila Research
- American Association for Cancer Research

7. RESEARCH INTERESTS AND COMPLETED PROJECTS

Research Interests

Certain drugs and environmental toxins are known to predispose to a range of human diseases. My research investigates the molecular mechanisms by which such drugs and environmental toxins contribute to neurodegenerative diseases (e.g., Parkinson's disease), female reproductive dysfunction and cancer, using *Drosophila melanogaster* and rodents as model organisms. I also design concepts for prevention and possible therapy using phytochemicals.

Completed Research

1. Establishing *Drosophila melanogaster* as a Model for Toxicology and Biomedical Research
Publications in this project:

2. Neurodegeneration and Parkinson's Disease: Neuroprotection by Dietary Phytochemicals
Publications in this project:

3. Heavy-Metal and Metalloid Toxicity and Metal-Chelation Therapeutics

4. Nicotine, E-Cigarette and Vaping Neurotoxicology

5. Environmental, Industrial and Food-Additive Chemical Toxicity

6. Reproductive and Endocrine Toxicology: 4-Vinylcyclohexene, Industrial Solvents and Drug Safety.

7. Antimalarial Drug Safety and Malaria Research

8. Diabetes, Aging and Lifespan Modulation

9. Pesticide and Neurotoxicant Organ Toxicity in Mammalian Models

10. Natural-Product Characterization, Phytochemistry and Ethnopharmacology

11. Computational Discovery and Personalized Disease Models (Cancer and Drug Targets)

12. Research Metrics and Science Policy

Doctoral Dissertation

Ph.D. Thesis (Abolaji, A. O., 2010): Standardisation, Biochemical and Reproductive Toxicity Studies on Local *Artemisia annua* in Wistar Rats. University of Calabar, Nigeria.

8. TEACHING EXPERIENCE

(a) Undergraduate Level

Lectures delivered to B.Sc. Biochemistry; MBBS/BDS; B.Sc. Physiotherapy; B. Pharm; B.Sc. Microbiology; B.Sc. Human Nutrition; and B.Sc. Nursing students.

- **B.Sc. project supervision:** 85 undergraduate projects supervised to date.
- **Adjunct Lecturer:** Department of Biochemistry, Adeleke University, Ede, Osun State (2015); and Landmark University, Omu-Aran, Kwara State (2016).

(b) Postgraduate Level

- Supervised/co-supervised numerous M.Sc. students in Biochemistry, Pharmaceutical Chemistry and Pharmacognosy; currently co-supervising Ph.D. students.
- **Visiting Lecturer** (February & December 2019; virtual 2020-2026), University of Oxford, UK - Oxford Centre for Tropical Medicine and Global Health, Nuffield Department of Medicine; M.Sc. International Health and Tropical Medicine, Module: Challenges and Change in International Health (CCIH). Lecture topic: Environmental Toxins.

Selected Areas of Teaching

Chemistry and Metabolism of Carbohydrates; Chemistry and Metabolism of Proteins; Comparative Biochemistry; Advanced Lipid Biochemistry; Biochemistry and Immunology of Parasitic Diseases; Biochemistry of Nucleic Acids; Biochemical Toxicology.

9. RESEARCH SUPERVISION

Doctoral Students (Selected)

1. **Opeyemi Balogun (Ph.D.)** - “A Study of the Chemistry and Some Biological Activities of Three Varieties of *Plectranthus esculentus* (N.E.Br) Tubers and Leaves.”
   Department of Pharmaceutical Chemistry, University of Jos. Graduation: 2021. Supervisors: Prof. Alemika Taiwo; Prof. Amos Abolaji.
2. **Aghogho Oyibo (Ph.D.)** - “Cytoremediative Potentials of *Vitellaria paradoxa* (Gaertn. C.F) in Arsenic-induced Toxicity in Wistar Rat and Harwich Fruit Fly, and its Antiproliferative Activity in MCF-7 Cells.”

Department of Biochemistry, College of Medicine, University of Ibadan. Graduation: 2021. Supervisors: Prof. Oyeronke Odunola; Prof. Amos Abolaji.

3. **Adeola Adedara (Ph.D.)** - "Effects of Kaempferol, Hesperetin and Hesperidin on MPTP-induced Parkinsonism: *Drosophila melanogaster* as Model Organism."
   Department of Biochemistry and Molecular Biology, Federal University of Santa Maria, Brazil. Graduation: 2024. Supervisors: Prof. Nilda Berenice Barbosa; Prof. Amos Abolaji.
4. **Judith Madu (M.Phil.)** - "Interactive Actions of N-Methyl-N-Nitrosourea and Benzo[a]pyrene-induced Oxidative Stress in *Drosophila melanogaster*."
   Department of Biochemistry, College of Medicine, University of Ibadan. Graduation: 2024. Supervisors: Prof. O. A. Adaramoye; Prof. Amos Abolaji.
5. **Onaara Ashaolu (Ph.D.)** - "Physiological Changes in the Gut of Oregon Strain of *Drosophila melanogaster* Following Consumption of Diets Containing Selected Heavy Metals."
   Department of Physiology, University of Ibadan. Graduation: 2025. Supervisors: Prof. S. B. Olaleye; Prof. Amos Abolaji.
6. **Zeniat Oyaluna (Ph.D.)** - "Therapeutic and Antimicrobial Evaluation of Alliin-Rich Garlic Extract in a *Drosophila melanogaster* Model of Sucrose-Induced Type 2 Diabetes."
   Department of Pharmaceutical Chemistry, University of Ibadan. Graduation: 2025. Supervisors: Prof. Peace Chinedum Babalola; Prof. Amos Abolaji.
7. **Zaynab Mohammed (Ph.D.)** - "Neuroprotective Properties of Bioactive Peptides from Selected Nigerian Medicinal Plants."
   Department of Pharmacognosy, University of Ibadan. Graduation: 2025.
   Supervisors: Prof. Omonike Ogbole; Prof. Amos Abolaji.

Master's Students (Selected)

Name	Title of Project
Fasae, Kehinde	Curcumin attenuates oxidative damage, locomotor deficits and neurotoxicity in *Drosophila melanogaster*.
Iwezor, Chism	Rescue role of curcumin in copper-induced toxicity in *Drosophila melanogaster*.
Adeyeye, Peter	Ameliorative effect of curcumin-resveratrol combination on aluminium chloride-induced alterations in the brain, uterus and ovary of Wistar rats.
Popoola, Samuel Taiwo	Repro-protective effect of curcumin-resveratrol co-administration on aluminium chloride-induced toxicity in female Wistar rats.
Ikotu-Otumu, Christian	Recovery role of curcumin-resveratrol combination in aluminium chloride-triggered reproductive toxicity in female Wistar rats.
Otenaike, Titilayomi Ayomide	Therapeutic effect of selected phytochemicals on chemical- and genetic-induced models of Parkinson's disease in *Drosophila melanogaster*.
Babatunde, OreOluwa	Rescue role of trans-astaxanthin in rotenone-induced Parkinson's disease in *Drosophila melanogaster*.
Omotayo, Tolulope Mercy	Protective role of trans-astaxanthin in a *Drosophila melanogaster* model of MPTP-induced Parkinsonism.
Akinade, Temitope Christinah	Therapeutic role of trans-astaxanthin in a rotenone-induced Parkinson's disease model in *Drosophila melanogaster*.

10. ADMINISTRATIVE EXPERIENCE

University of Ibadan

- Deputy Provost (Admin), PG College, University of Ibadan **2024-2026**
- Postgraduate Departmental Coordinator **2017**
- Assistant B.Sc. Coordinator **2011-2015**
- Member, Departmental Academic Board **2011-date**
- Coordinator, MBBS/BDS Programme **2015**

Covenant University

- Member, Convocation Subcommittee (Media) **2010**
- Chairman, Media Subcommittee, International Biotechnology Symposium (IBS)**2009-2010**
- 400-Level Students' Adviser **2009-2010**
- 100-Level Students' Adviser **2007-2008**
- Assistant Departmental Examination Officer **2007-2008**

11. PROFESSIONAL SERVICE AND PEER RECOGNITION

Workshops and Events

1. Co-organizer and Secretary, Local Organizing Committee: DrosAfrica-ICGEB Course, University of Ibadan, Nigeria (July 2017).
2. Workshop Facilitator: "*Drosophila melanogaster*: A Versatile Model in Experimental Medicine", WHO Africa Centre of Excellence in Phytomedicine Research and Development, University of Jos, Nigeria (December 2016).
3. Co-Facilitator: One-day interactive session on *Drosophila* Models for Biomedicine (February 2016).
4. Workshop Facilitator: "Applications of Biotechniques to Medicinal Plant Research", Obafemi Awolowo University, Ile-Ife, Nigeria (June 11-16, 2018).

Editorial and Advisory Boards

- Editorial Board Member, Universal Journal of Pharmaceutical Research, India.
- Editorial Board Member, Jacobs Journal of Drug Metabolism and Toxicology, USA.
- Advisory Board Member, Hamdard Medicus Journal, Pakistan.

Reviewing and Other Service

- **Journal Reviewer** for: Toxicology and Applied Pharmacology; Toxicology; Human and Experimental Toxicology; Food and Chemical Toxicology; Pharmaceutical Biology; Natural Product Research; and Environmental Toxicology and Pharmacology.
- **Grant Reviewer:** Health and Medical Research Fund, Government of the Hong Kong Special Administrative Region (2013-date).
- **Chairperson:** Alternative to Mammalian Model III Poster Session, 2015 Society of Toxicology Annual Meeting, San Diego, CA, USA (March 22-26).

12. BIBLIOMETRIC SUMMARY

Google Scholar (as at August 2026): Total Citations 3,613 • h-index 32 • i10-index 66.
Profile: ***scholar.google.com/citations?user=rMitq2AAAAAJ***

13. PUBLICATIONS

Ninety-seven (97) peer-reviewed publications and book chapters, listed in reverse chronological order.

1. Oyeniyi, F.A., Oladokun FA, Ajayi AA, Ibrahim A, Aladeloye RS, Akinfe OA, Oludaiye FR, Moens TG, Badmos HA, **Abolaji AO,** Cagan R. Functional Exploration of African Colorectal Cancer Patients Using Personalised *Drosophila* Avatars. bioRxiv [Preprint]. 2026 Mar 30:2026.03.26.714433. doi: 10.64898/2026.03.26.714433. PMID: 41959337; PMCID: PMC13060073.
2. Adeyemi, O. E., Monteiro, C. S., Emanuelli, T., **Abolaji, A. O.,** Aguiyi, J. C., Jaryum, K. H., Johnson, T. O. (2026). Hydroxybenzoate-based hits from methanolic leaf fraction of *Ficus exasperata* Vahl: Integrative biochemical, molecular, and computational discovery against Bisphenol toxicity. Scientific Reports. https://doi.org/10.1038/s41598-026-62445-y

3. Madu, J.C., **Abolaji, A.O.,** Adaramoye, O.A. (2026). Co-Exposure of N-Methyl-N-Nitrosourea and Benzo[A]Pyrene Elicits Toxicity in *Drosophila Melanogaster*. *Journal of Biochemical and Molecular Toxicol*ogy **40(6):e70915.** doi: 10.1002/jbt.70915.
4. Otenaike, T.A., Farodoye, O.M., Rocha, J.B.T., **Abolaji, A.O.,** Loreto, E.L.S. (2026). Mechanisms of nicotine toxicity and addiction-like behavior in *Drosophila melanogaster*: The role of α7 & β2 nicotinic acetylcholine receptor subunits in sensory valence and cellular stress. *Neurotoxicology* **115:103499.** doi: 10.1016/j.neuro.2026.103499.
5. Farodoye OM, Otenaike TA, Mombach DM, Silva MM, Abolaji AO, Loreto ELDS. Diving Deeper into Mechanisms of Acrylamide-Induced Toxicity: RNA Sequencing Reveals Transcriptomic Alteration and Retrotransposon Expression in *Drosophila melanogaster*. Environ Toxicol. 2026 Feb 23. doi: 10.1002/tox.70054. Epub ahead of print. PMID: 41725541.
6. Otenaike TA, Farodoye O, Silva KK, **Abolaji AO** (2026). Loreto ELS. E-cigarette exposure impairs associative memory: role of α7 and β2 nicotinic acetylcholine receptors. J Neurogenet. 23:1-18. doi: 10.1080/01677063.2026.2613797.
7. Oyibo A., Adedara-Balogun A., Ojo O.B., Molik Z.A., Otenaike T.A., Aschner M., **Abolaji A.O.** (2026). Harnessing *Drosophila melanogaster* to unravel micro/nanoplastics-induced neurotoxicity and protective mechanisms: A new frontier in environmental neurotoxicology. Advances in Neurotoxicology, Academic Press, 2026, ISSN 2468-7480, https://doi.org/10.1016/bs.ant.2026.03.007.
8. Otenaike. T. A., Farodoye, O. M., Olaniyan, H., Teibo, J. O., Faleke, H. A., Akinola, I. A., Molik, Z. A., Aschner, M., **Abolaji, A. O. (2026).** Neurotoxicity of heavy metals across the lifespan: The beneficial role of nutrition from fetus to the elderly. In *Advances in Neurotoxicology*, ISSN 2468-7480. Elsevier. https://doi.org/10.1016/bs.ant.2026.03.003
9. Alaka HO, Ajayi TO, **Abolaji AO** (2025). Oxidative stress and fertility studies of selected plants using female *Drosophila melanogaster.* BMC Res Notes. 18(1):473. doi: 10.1186/s13104-025-07536-1.
10. Otenaike TA, Farodoye OM, de Silva MM, Loreto JS, Adedara AO, Dos Santos MM, de Prestes AS, Barbosa NV, da Rocha JBT, Lobo LE, Wagner R, **Abolaji AO**, Loreto ELS (2024). Nicotine and Vape: Drugs of the Same Profile Flock Together. J Biochem Mol Toxicol. 38(12):e70075. doi: 10.1002/jbt.70075.
11. **Abolaji AO,** Adedara AO, Madu JC, Owalude OT, Ogunyemi OM, Omoboyowa DA, Omage FB, Whitworth AJ, Aschner M. Experimental and computational insights into the therapeutic mechanisms of resveratrol in a *Drosophila* α-synuclein model of Parkinson's disease. Sci Rep. 2025 May 22;15(1):17769. doi: 10.1038/s41598-025-00698-9. PMID: 40404673; PMCID: PMC12098997.
12. Okonta C, Ogunyemi OM, Olabuntu B, **Abolaji AO.** Ameliorative role of naringenin in MPTP-induced Parkinsonism: Insights from *Drosophila melanogaster* experimental model combined with computational biology. Toxicol Rep. 2025 Mar 20;14:102004. doi: 10.1016/j.toxrep.2025.102004. PMID: 40213420; PMCID: PMC11982306.
13. Akano JM, Molik ZA, Abolaji AO, Ogbole OO. Mitigating aluminum chloride-induced toxicity in *Drosophila melanogaster* with peptide fractions from *Euphorbia* species. Drug Chem Toxicol. 2025 May;48(3):687-696. doi: 10.1080/01480545.2024.2421916. Epub 2024 Nov 5. PMID: 39501706.
14. Ashaolu OP, Odukanmi OA, Salami AT, Abolaji AO, Olaleye SB. Kolaviron: a Bioflavonoid from Seed Extract of *Garcinia kola* Attenuates Chromium (VI)-Induced Gut Dysfunction and Oxidative Damage in *Drosophila melanogaster*. Biol Trace Elem Res. 2025 Jun;203(6):3366-3375. doi: 10.1007/s12011-024-04414-y. Epub 2024 Oct 19. PMID: 39425879.
15. Oyaluna ZE, **Abolaji AO**, Bodede O, Olanlokun JO, Prinsloo G, Steenkamp P, Babalola CP. (2024). Chemical analysis of alliin-rich *Allium sativum* (garlic) extract and its safety evaluation in *Drosophila melanogaster*. https://doi.org/10.1016/j.toxrep.2024.101760.

16. Asejeje FO, Asejeje GI, Ogunro OB, Adedara AO, **Abolaji AO** (2024). Protective role of hesperetin in *Drosophila melanogaster* model of ferrous sulphate-induced toxicity. BMC Pharmacol Toxicol. 25(1):70. doi: 10.1186/s40360-024-00792-0. PMID: 39334451; PMCID: PMC11438368.
17. Farodoye OM, Otenaike TA, Loreto JS, Adedara AO, Silva MM, Barbosa NV, Rocha JBTD, **Abolaji AO**, Loreto ELS. (2024) Evidence of acrylamide-induced behavioral deficit, mitochondrial dysfunction and cell death in *Drosophila melanogaster*. Comp Biochem Physiol C Toxicol Pharmacol. 284:109971. doi: 10.1016/j.cbpc.2024.109971. Epub ahead of print. PMID: 38972620.
18. Adebowale A, Oyaluna Z, Falobi AA, Abolaji AO, Olaiya CO, Ojo OO (2024). Magainin-AM2 inhibits sucrose-induced hyperglycaemia, oxidative stress, and cognitive dysfunction in *Drosophila melanogaster*. Free Radic Biol Med. S0891-5849(24)00545-8. doi: 10.1016/j.freeradbiomed.2024.06.028. Epub ahead of print. PMID: 38964592.
19. Adedara AO, Bressan GN, Dos Santos MM, Fachinetto R, **Abolaji AO**, Barbosa NV. (2024). Antioxidant responses driven by Hesperetin and Hesperidin counteract Parkinson's disease-like phenotypes in *Drosophila melanogaster.* Neurotoxicology.101:117-127. doi: 10.1016/j.neuro.2024.02.006.
20. Asejeje FO, Alade TF, Oyibo A, Abolaji AO. (2024). Toxicological assessment of sodium benzoate in *Drosophila melanogaster*. J Biochem Mol Toxicol. 38(1):e23586. doi: 10.1002/jbt.23586. Epub 2023 Nov 20. PMID: 37986221.
21. Oyibo A, **Abolaji AO,** Omoboyowa DA, Odunola OA. (2023). *Vitellaria paradoxa* Inhibits Arsenic-induced Toxicity in *Drosophila melanogaster* Via the Augmentation of Antioxidant System. Toxicology. 153590. doi: 10.1016/j.tox.2023.153590. Epub ahead of print.
22. Omotayo T, Otenaike TA, Adedara AO, Adeyemi OE, Jonhnson TO, **Abolaji AO.** (2023). Biological interactions and attenuation of MPTP-induced toxicity in *Drosophila melanogaster* by Trans-astaxanthin. Neurosci Res. S0168-0102(23)00110-4. doi: 10.1016/j.neures.2023.06.005.
23. Adedara AO, Otenaike TA, Farodoye OM, **Abolaji AO.** (2023). Ellagic acid mitigates rotenone-induced damage via modulating mitochondria function in *Drosophila melanogaster*. J Biochem Mol Toxicol. 37(6):e23332. doi: 10.1002/jbt.23332.
24. Adedara AO, Wildner G, Loreto JS, Dos Santos MM, **Abolaji AO,** Barbosa NV. (2023). Kaempferol counteracts toxicity induced by 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine in *D. melanogaster*: An implication of its mitoprotective activity. Neurotoxicology. 95:23-34. doi: 10.1016/j.neuro.2022.12.008.
25. Adedara AO, Otenaike TA, Olabiyi AA, Adedara IA, **Abolaji AO.** (2023). Neurotoxic and behavioral deficit in *Drosophila melanogaster* co-exposed to rotenone and iron. Metab Brain Dis. 38(1):349-360. doi: 10.1007/s11011-022-01104-3.
26. Asejeje FO, Ogunro OB, Asejeje GI, Adewumi OS, **Abolaji AO.** (2023). An assessment of the ameliorative role of hesperidin in *Drosophila melanogaster* model of cadmium chloride-induced toxicity. Comp Biochem Physiol C Toxicol Pharmacol. 263:109500. doi: 10.1016/j.cbpc.2022.109500.
27. Omeiza NA, Bakre A, Ben-Azu B, Sowunmi AA, Abdulrahim HA, Chimezie J, Lawal SO, Adebayo OG, Alagbonsi AI, Akinola O, **Abolaji AO**, Aderibigbe AO. (2023). Mechanisms underpinning *Carpolobia lutea* G. Don ethanol extract's neurorestorative and antipsychotic-like activities in an NMDA receptor antagonist model of schizophrenia. J Ethnopharmacol. 301:115767. doi: 10.1016/j.jep.2022.115767.
28. Fasae, K.D., Adeyemi, O., Faleke, H.O., **Abolaji, A.O.** (2023). Neurotoxicity of iron (Fe) in *Drosophila* and the protective roles of natural products. Advances in Neurotoxicology, 2023, 9, pp. 321-342
29. Akinade TC, Babatunde OO, Adedara AO, Adeyemi OE, Otenaike TA, Ashaolu OP, Johnson TO, Terriente-Felix A, Whitworth AJ, **Abolaji AO.** (2022). Protective capacity of carotenoid trans-

astaxanthin in rotenone-induced toxicity in *Drosophila melanogaster*. *Scientific Reports* 12(1):4594. doi: 10.1038/s41598-022-08409-4.

30. Adedara AO, Babalola AD, Stephano F, Awogbindin IO, Olopade JO, Rocha JBT, Whitworth AJ, **Abolaji AO.** (2022). An assessment of the rescue action of resveratrol in parkin loss of function-induced oxidative stress in *Drosophila melanogaster*. *Scientific Reports* 12(1):3922. doi: 10.1038/s41598-022-07909-7.
31. Fasae KD, **Abolaji AO.** (2022). Interactions and toxicity of non-essential heavy metals (Cd, Pb and Hg): lessons from *Drosophila melanogaster. Current Opinion Insect in Science* 51:100900. doi: 10.1016/j.cois.2022.100900. Epub 2022 Mar 7.
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14. CONFERENCE AND WORKSHOP PRESENTATIONS (SELECTED)

1. **Abolaji, A.O.,** Eteng, M.U., Ebong, E.P., Dar A., Brisibi, A., Choudhary, I.M. (2009): Developmental toxicity study of *Artemisia annua* from the second to the third trimester of pregnancy in Wistar rats. Presented at **the Fifth MIM Pan-African Malaria Conference**, 2nd-6th November 2009, Nairobi, Kenya.
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3. **Abolaji, A.O.**, Adedara, I.A., Ikenna, M.C., Elizabeth, O.I., Farombi, E.O. (2012): Erythrocytes antioxidant response and lipid peroxidation level of artemisinin administration in female Wistar rats. **3rd UNIBADAN Conference of Biomedical Research**, July 24-27, 2012.
4. **Abolaji, A.O**., Eteng, M.U., Omonua, O., Adenrele, Y. (2012): Artemether and lumefantrine co-exposure altered plasma biochemical indices and induced oxidative stress in erythrocytes of female Wistar rats**. European Molecular Biology Organisation (EMBO) Meeting, Nice, France**, 22nd - 25th September, 2012.
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7. **Abolaji, A.O**., Kamdem, J.P., Lugokenski, T., Nascimento, T.K., Rocha, J.B., Farombi E.O. (2014): Mechanism of 4-Vinylcyclohexene-induced ovotoxicity: Lessons from *Drosophila melanogaster*. **Plenary Presentation at the UNIBADAN Conference of Biomedical Research 4**, University of Ibadan, Nigeria. July 1-4, 2014.
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9. **Abolaji A.O.,** Nascimento T.K., Farombi E.O., Rocha J.B. (2015). 4- Vinylcyclohexene diepoxide-induced toxicity in *Drosophila melanogaster*: Implications in occupationally exposed women. **2015 Society of Toxicology Annual Meeting**, March 22-26, 2015 in San Diego, CA, USA.
10. **Abolaji A.O.,** Kamdem J.P., Lugokenski T.H., Farombi E.O., Souza D., Rocha J.B. (2015). Molecular mechanisms of toxicity of ovotoxicants 4-Vinylcyclohexene 1, 2monoepoxide and 4-vinylcyclohexene diepoxide: Lessons from *Drosophila Melanogaster.* Free Radical Biology and Medicine 87, S13. SFRBM 2015 - 22nd Annual Meeting of the Society for Redox Biology and Medicine, November 18-22, **2015** at the Westin Waterfront Hotel in Boston, MA.
11. Ogundahunsi O., **Abolaji A.O.,** Olaiya C.O.O. (2016). Dietary exposure to monosodium L-glutamate reduces lifespan via disruption of oxidative stressantioxidant balance in *Drosophila melanogaster.* **5th UNIBADAN Conference of Biomedical Research**, July 2016.
12. Babalola O., Adegoke K. Adedara I.A., **Abolaji A.O.,** Farombi E.O. (2016). Chemoprotective role of Hesperidin on trichloroethylene-induced toxicity *in Drosophila melanogaster.* **5th UNIBADAN Conference of Biomedical Research**, July
13. **Abolaji, A.O.** (2017). U.I.-DrosAfrica-ICGEB *Drosophila* Workshop, University of Ibadan, Nigeria. **Date:** 17-28 July, 2017. **Paper Read: *Drosophila melanogaster* as a model in toxicology.**
14. **Abolaji, A.O.** (2018). Guest Speaker at the 2018 20th EMBL Ph.D. Symposium at the European Molecular Biology Laboratory, Heidelberg, Germany. **Date:** 22-24 November, 2018. **http:// phdsymposium.embl.org/#speakers Paper Read: Raising A New Generation of African Fly Researchers. (An EMBO Science Policy Lecture)**
15. **Abolaji, A.O.** (2018). Presentation at the Funding Highlight Notice Launch, organised by the National Centre for the Replacement, Refinement and Reduction of Animals in Research (NC3Rs). **Date:** 4 September 2018. **Venue:** Cavendish Conference Centre, 22 Duchess Mews, Marylebone, London W1G 9DT. **Paper Read: *Drosophila* models of chemical-induced diseases and the rescue role of phytochemicals**.
16. Adedara, A.O., Adie, M.A., Vicente-Crespo, M., **Abolaji, A.O.**, Farombi, E.O. (2018). The 6th UNIBADAN Conference of Biomedical Research. **Date:** 11-14 July, 2018. Venue: Conference Centre, University of Ibadan, Nigeria. **Paper Read: Rescue role of resveratrol in a *Drosophila***

melanogaster **model of 1methyl-4-phenyl-1,2,3,6-tetrahydropyridine-induced Parkinsonism.**

17. Ashaolu, O.P., Odukanmi, A., **Abolaji, A.O.,** Olaleye, S.B. (2018). The 6th UNIBADAN Conference of Biomedical Research. **Date: 11-14 July, 2018. Venue:** Conference Centre, University of Ibadan, Nigeria. **Paper Read: Dietary consumption of hexavalent chromium damages the gut of Oregon strain of *Drosophila melanogaster.***
18. **Abolaji, A.O. (2019**). Invited speaker at the International Society of Neurochemistry (ISN), School of Basic Neurosciences. **Date:** 20-26 October, 2019. **Venue:** Federal University of Technology, Akure, Ondo State, Nigeria. **Date:** 20-26 October 2019. **Paper Read: *Drosophila melanogaster* as a Model for Brain Research**
19. **Abolaji, A.O. (2020).** Invited speaker at the DrosAfrica Virtual Conference, Sponsored by the University of Glasgow. *Session--Nutrition, Microbials, and Toxicity*. **Date:** October 12 2020. **Paper Read: *Drosophila melanogaster*: An Emerging Model System in Toxicology.**
20. **Abolaji, A.O. (2020).** Invited speaker at the Interdisciplinary Research Discourse/Workshop. **Date:** Tuesday 11th - Thursday 13th May, 2021. **Venue:** University of Benin. **Paper Read: *Drosophila melanogaster*: A Promising Model in Biomedical Research.**
21. **Abolaji, A.O. (2020).** Invited speaker at the DrosAfrica Virtual Conference, Sponsored by the University of Glasgow. *Session--Nutrition, Microbials, and Toxicity*. Date *October 12 2020.* **Paper Read: *Drosophila melanogaster:* An Emerging Model System in Toxicology.**
22. **Abolaji, A.O. (2020).** Invited speaker at the IBRO African Neuroscience School, Ibadan 23rd-27th February, 2020. **Paper Read: Parkinson's Disease: What We Have Learned from the Fruit Fly.**
23. **Abolaji, A.O. (2020).** Invited speaker at the IBRO African Neuroscience School, Ibadan. **Date:** 23-27 February, 2020. **Paper Read: Modelling Parkinson's Disease in *Drosophila*: Promising Therapeutic Strategies.**
24. **Abolaji, A.O. (2020).** Invited speaker at the Movement Disorder Symposium of the 14th Conference of Society of Neuroscientists in Africa (SONA) in conjunction with 17th Conference of Neuroscience Society of Nigeria (NSN). **Date:** 24-27 March, 2019.**Venue:** Radisson Blu, Ikeja, Lagos, Nigeria. **Paper Read: The Growing Potential of *Drosophila melanogaster* in the Study of Movement Disorders.**
25. **Abolaji A. O. (2020**). DrosAfrica Virtual Conference (University of Glasgow-linked) (2020). **Paper Read: *Drosophila melanogaster*: an emerging model system in toxicology.**
26. **Abolaji A. O. (2023).** EU-LIFE Anniversary-Envisioning the Research Centres of the Future, Lisbon, Portugal. **Paper Read: The role of proactivity in science (presented at the 10th anniversary meeting).**
27. **Abolaji A. O. (2023).** International Centre for Genetic Engineering and Biotechnology, Trieste, Italy (2023) **Paper Read: Rescue action of selected natural products in chemical- and genetic-induced *Drosophila melanogaster* models of Parkinson's disease: an ICGEB-funded project.**
28. **Abolaji, A.O. (2024).** International Society for Neurochemistry (ISN) Neuroscience School, Ondo, Nigeria. **Paper Read: Assessing natural products on toxicant models of Alzheimer's and Parkinson's disease in *D. melanogaster*.**