

CURRICULUM VITAE

- I.**
- (a) **NAME:** Amos Olalekan **ABOLAJI**
- (b) **DEPARTMENT:** Biochemistry
- (c) **AREA OF SPECIALISATION:** Molecular Drug Metabolism and Toxicology
- (d) **FACULTY:** Basic Medical Sciences
- (e) **MOBILE NO.:** +2348068614194
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ao.abolaji@ui.edu.ng
- II.**
- (a) **PREVIOUS ACADEMIC APPOINTMENT:** Covenant University, Nigeria. (2007-2011)
- (b) **ACADEMIC APPOINTMENT AT UNIVERSITY OF IBADAN:** Lecturer 1 (01 March, 2011)
- (c) **PRESENT STATUS (WITH DATE):** **Reader/Associate Professor** (01 October, 2017)
- (d) **RELIGION:** Christianity
- (e) **MARITAL STATUS:** Married
- III. UNIVERSITY EDUCATION (WITH DATES)**
- Obafemi Awolowo University, Ile-Ife, Nigeria. 1993 - 1998
 - University of Lagos, Lagos, Nigeria. 2002 - 2003
 - University of Calabar, Calabar, Nigeria. 2005– 2010
- IV. ACADEMIC QUALIFICATIONS (WITH DATES & GRANTING BODIES)**
- Bachelor of Science (B.Sc.) Obafemi Awolowo University 1998
 - Master of Science (M.Sc.) University of Lagos 2003
 - Doctor of Philosophy (Ph.D.) University of Calabar 2010

V. SCHOLARSHIPS, FELLOWSHIPS AND PRIZES (WITH DATES)

1. **2018 Africa Oxford Initiative Fellowship (Academic Visitor)**
Department of Biochemistry, University of Oxford, UK.
August 2018-September 2018.
2. **SOT/AstraZeneca/SOT Endowment Fund Travel Award.** To attend and make presentation at the **2015 Society of Toxicology Annual Meeting**, March 22–26, 2015 in San Diego, CA.
3. **2012/2013 CNPq-TWAS Postdoctoral Fellowship Award:** Award of Postdoctoral Fellowship 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, Centre for Natural Sciences, Department of Biochemical Molecular Biology, Biochemical Toxicology Unit, Brazil (April 2013-March 2014).
4. **2008/2009 Joint NAM S&T-ICCBS PhD 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 carry out part of my Ph.D. bench work at the Dr Panjwani Centre for Molecular Medicine and Drug Research, University of Karachi, Pakistan.
5. **WHO/TDR Travel Fellowship Award.** Fifth MIM Pan-African Malaria Conference, 2-6 November 2009, Nairobi, Kenya.

VI. GRANT AWARDS (WITH YEAR)

1. **Principal Investigator: 2018 CRP International Centre for Genetic Engineering and Biotechnology (CRP-ICGEB), Trieste Italy Grant Award:** Unravelling the molecular therapeutic mechanisms of resveratrol rescue-driven in *Drosophila melanogaster* models of Parkinson’s Disease (2019-2021).
2. **(Category 1B: Research Supplies for use in the applicant’s home laboratory) to the Committee for Aid and Education in Neurochemistry (2017).** Possible chemopreventive mechanism of xanthophyll carotenoid astaxanthin (ATX) against neurotoxin 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP)-induced Parkinsonism in *Drosophila melanogaster*.
3. **The Thomas-Basir Biomedical Foundation Grant Award (2015)**
To investigate the toxicological mechanisms of toxicity of ovotoxicant and carcinogen 7, 12- dimethylbenz(a)anthracene (DMBA) in *Drosophila melanogaster*.

4. **AXA MANSARD INSURANCE-PIUTA IBADAN CENTRE MINI FELLOWSHIPS (2016).** Biochemical mechanisms of toxicity of ovotoxic carcinogen 7,12-dimethylbenz[a]anthracene in a *Drosophila melanogaster* model: An ongoing Project.
5. **Co-applicant: International Centre for Genetic Engineering and Biotechnology (ICGEB) Workshop Grants** to organise: DrosAfrica-ICGEB Course “*Drosophila melanogaster* in Biomedical Research: Low-cost and profitable.” Venue: University of Ibadan, Ibadan, Oyo State, Nigeria. Dates: From 18/07/2017 to 29/07/2017.
6. **Cambridge-Africa ALBORADA Research Funds** to undertake the project titled: Building capacity for developmental biology research through the analysis of the ovotoxicity effects of 4-vinylcyclohexene (VCH) and its metabolites in the egg chamber of *Drosophila melanogaster*.” **Abolaji A.O. and Weil T.T. (2016)**

VII. MEMBERSHIP OF LEARNED SOCIETIES

- European Teratology Society.
- American Society of Biochemistry and Molecular Biology.
- Society of Toxicology, USA.
- Medicinal Plants Research, Germany.

VIII. DETAILS OF TEACHING EXPERIENCE AT UNIVERSITY LEVEL

(a) Undergraduate Level

- Lectures to the following categories of students:
 B.Sc. Biochemistry students
 MBBS, BDS students
 B.Sc. Physiotherapy students
 B. Pharmacy students
 B.Sc. Microbiology students
 B.Sc. Human Nutrition students
 B.Sc. Nursing students
- **B.Sc. Project Supervision**

 Number of B.Sc. projects supervised till date: 55
- **Adjunct Lecturer:**
 - i. Department of Biochemistry, Adeleke University, Ede, Osun State, Nigeria- 2015.
 - ii. Landmark University, OmuAran, Kwara State, Nigeria- 2016

(b) Postgraduate Level

- I have supervised/co-supervised several M.Sc. students from the Departments of Biochemistry, Pharmaceutical Chemistry, and

Pharmacognosy. I am currently co-supervising two Ph.D. students.

- **Visiting Lecturer (February and December 2019)**
University of Oxford, U.K.
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

CURRENT STUDENTS

Masters Level

1. **Project Title:** Protective action of Naringenin in 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine-induced model of Parkinson's disease in *Drosophila melanogaster*.
Student's Name: Okonta Clive (225535)
2. **Project Title:** Pink1 overexpression ameliorates iron-induced oxidative stress in *Drosophila melanogaster*
Students' Name: Ogwo Anthony (v) and Sani Daniel (218864)
3. **Project Title:** Therapeutic action of Esculentin-2CHa on Cu²⁺ -induced model of neurotoxicity in *Drosophila melanogaster*.
Student's Name: Udochukwu, Onyedika Loveth (218125)
4. **Project Title:** Protective role of diphenyl diselenide in Trimethylsilyl chloride-induced toxicity in *Drosophila melanogaster*
Student's Name: Akpaneka, Emmanuel Ime (216283)

Selected Current Doctoral Students (Co-Supervision)

1. **Name of Student:** Onaara Ashaolu
Title of Project: Physiological Changes in the Gut of Oregon Strain of *Drosophila melanogaster* Following Consumption of Diets-Containing Selected Heavy Metals.
Department and Institution: Department of Physiology, Faculty of Basic Medical Sciences, University of Ibadan.
Year of Entry: 2018
Supervisors: Professor S.B. Olaleye and Dr Amos Abolaji
2. **Name of Student:** Zeniat Oyaluna
Title of Project: Therapeutic and Antimicrobial Evaluation of Alliin-Rich Garlic Extract in *Drosophila melanogaster* Model of Sucrose-Induced Type 2 Diabetes.
Department and Institution: Department of Pharmaceutical Chemistry, Faculty of Pharmacy, University of Ibadan
Year of Entry: 2018
Supervisors: Professor Peace Chinedum Babalola and Dr Amos Abolaji

3. **Name of Student:** Adeyemi Olugbenga Eytayo
Title: Anticancer Activity of *Ficus exasperata* Leaf Extract in *Drosophila melanogaster*.
Department and Institution: Department of Biochemistry, University of Jos.
Year of Entry: 2018
Supervisors: Dr. Titilayo Johnson and Dr. Amos Abolaji
4. **Name of Student:** Jane Rose
Title of Project: Ameliorative Assessment *Tapinanthus globiferus* (African Mistletoe) in Sodium Arsenite-induced toxicity in *Drosophila melanogaster*.
Year of Entry: 2018
Supervisors: Dr. Titilayo Johnson and Dr. Amos Abolaji
5. **Name of Student:** Zaynab Mohammed
Title: Neuroprotective properties of Bioactive Peptides from Selected Nigerian Medicinal Plants.
Department and Institution: Department of Pharmacognosy, Faculty of Pharmacy, University of Ibadan.
Year of Entry: 2019
Supervisors: Dr. Omonike Ogbole and Dr. Amos Abolaji
6. **Name of Student:** Adeola Adedara
Project Title: Effects of kaempferol hesperetin and hesperidin on MPTP- induced Parkinsonism: *Drosophila melanogaster* as model organism.
Department and Institution: Department of Biochemistry and Molecular Biology, Federal University of Santa Maria, Brazil.
Year of Entry: 2020
Supervisors: Professor Nilda Berenice Barbosa and Dr. Amos Abolaji
7. **Name of Student:** Judith Madu
Project Title: Interactive actions of N-Methyl-N-Nitrosourea and Benzo[a]pyrene induced oxidative stress in *Drosophila melanogaster* (M.Phil).
Department and Institution: Department of Biochemistry, Faculty of Basic Medical Sciences, College of Medicine, University of Ibadan.
Year of Entry: 2020
Supervisors: Professor O.A. Adaramoye and Dr. Amos Abolaji

PREVIOUS STUDENTS (Selected)

Masters Level

Names of students	Registration No.	Title of Projects
1. Fasae, Kehinde	201150	Curcumin attenuates oxidative damage, locomotor deficits and neurotoxicity in <i>Drosophila melanogaster</i> .
2. Iwezor, Chism	203367	Rescue role of curcumin in copper-induced toxicity in <i>Drosophila melanogaster</i> .
3. Adeyeye, Peter	211059	Ameliorative effect of curcumin-resveratrol combination on aluminium chloride-induced alterations in the brain, uterus and ovary of Wistar rats.

4. Popoola, Samuel Taiwo	202021	Repro-protective effect of curcumin-resveratrol co-administration on aluminium chloride-induced toxicity in female Wistar rats
5. Ikotu-Otumu Christian	202629	Recovery role of curcumin-resveratrol combination in aluminium chloride-triggered reproductive toxicity in female Wistar rats.
6. Otenaike Titilayomi Ayomide	210522	Therapeutic effect of selected phytochemicals on chemical- and genetic- induced models of Parkinson's disease in <i>Drosophila Melanogaster</i> .
7. Babatunde OreOluwa	210444	Rescue role of trans-astaxanthin in rotenone-induced Parkinson's disease in <i>Drosophila melanogaster</i> .
8. Omotayo Tolulope Mercy	210404	Protective role of trans-astaxanthin in a <i>Drosophila melanogaster</i> model of MPTP- induced Parkinsonism.
9. Akinade Temitope Christinah	183544	Therapeutic role of trans-astaxanthin in rotenone-induced Parkinson's disease model in <i>Drosophila melanogaster</i> .

Previous Doctoral level (Co-supervision)

1. **Name:** Opeyemi Balogun (Ph.D.)

Title of Thesis: A Study of the Chemistry and some Biological Activities of Three Varieties of *Plectranthus esculentus* (N.E.Br) Tubers and Leaves.

Department and Institution: Department of Pharmaceutical Chemistry, University of Jos.

Year of Ph.D. Completion: 2021

Supervisors: Professor Alemika Taiwo; Dr. Amos Abolaji

2. **Name:** Aghogho Oyibo (Ph.D.)

Title of Thesis: Cyto-remediative Potentials of *Vitellaria paradoxa* (Gaertn. C.F) in Arsenic-induced Toxicity in Wistar Rat, Harwich Fruit Fly and its Antiproliferative Activity in MCF-7 Cells.

Department and Institution: Department of Biochemistry, Faculty of Basic Medical Sciences, College of Medicine, University of Ibadan.

Year of Ph.D. Completion: 2021

Supervisors: Professor Oyeronke Odunola and Dr. Amos Abolaji

(c) 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

(d) **Administrative Experience**
University of Ibadan

- 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 in charge of Media. 2010
- Chairman, Media Subcommittee of International Biotechnology Symposium (IBS) 2009-2010
- 400 Level students' Adviser 2009-2010
- 100 Level students' Adviser 2007-2008
- Assistant Departmental Examination Officer, 2007-2008

IX. RESEARCH

Research Interest

Certain drugs and environmental toxins are known to predispose to different human diseases. Thus, I am currently working on the molecular mechanisms by which these drugs and environmental toxins contribute to neurodegenerative diseases (e.g., Parkinson's disease), female reproductive dysfunctions and cancer using *Drosophila melanogaster* and rodents as model organisms. I also design concepts for the prevention and possible therapy with phytochemicals.

(a) Completed Research

- i. Standardisation of Nigerian grown *Artemisia annua* using reversed Phase High Performance Liquid Chromatography 2010
- ii. Reproductive and biochemical assessment studies on local *Artemisia annua* in Wistar rats 2010
- iii. Contraceptive potential of *Artemisia annua* in female rats 2010
- iv. Reproductive toxicity assessment studies on artemisinin, artemether-lumefantrine and artesunate-amodiaquine in rats 2011-2012
- v. Reproductive toxicity study on 2,5-Hexanedione in rats 2012
- vi. Molecular and biochemical toxicity of ovotoxicant 4-vinylcyclohexene and its diepoxide derivatives in *Drosophila melanogaster* 2013
- vii. Possible chemopreventive effect of diphenyl diselenide on mercuric chloride-induced reproductive toxicity in female Wistar rats 2014
- viii. Reproductive toxicity study on 4-vinylcyclohexene diepoxide in male and female Wistar rats 2015
- ix. Reproductive toxicity studies on trichloroethylene in female Wistar rats 2015

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| x. Chemopreventive potential of hesperidin against trichloroethylene-induced toxicity in <i>Drosophila melanogaster</i> | 2016 |
| xi. Chemopreventive potential of Kola viron against rotenone-induced Parkinsonism in <i>Drosophila melanogaster</i> | 2016 |
| xii. Ameliorative potential of hesperidin and hesperitin on 4-vinylcyclohexene-induced toxicity in female Wistar rats | 2017 |
| xiii. 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP)-induced Parkinsonism in <i>D. melanogaster</i> and the preventive role of resveratrol | 2018 |
| xiv. Protective role of resveratrol in NaF-induced toxicity in <i>Drosophila</i> | 2018 |
| xv. Mechanistic and therapeutic roles of carotenoid astaxanthin in <i>parkin</i> gain of functions- and rotenone-induced toxicity in <i>Drosophila</i> | 2021 |
| xvi. Role of hesperetin in alleviating oxidative stress and behavioural deficit in <i>Drosophila melanogaster</i> model of ferrous sulphate-induced toxicity. | 2021 |
| xvii. Protective role of astaxanthin in a <i>Drosophila melanogaster</i> model of 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP)-induced parkinsonism. | 2021 |
| xviii. Beneficial actions of esculentin-2CHa(1-30) on high sucrose-induced oxidative stress in <i>Drosophila melanogaster</i> . | 2021 |

(b) Research In Progress

Unravelling the molecular therapeutic mechanisms of resveratrol rescue-driven in *Drosophila melanogaster* models of Parkinson's Disease.

The research commenced in 2018 following a 3-year grant from International Centre for Genetic Engineering and Biotechnology (ICGEB), Italy. A previous study on the ameliorative role of resveratrol in 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine-induced Parkinson's disease in *D. melanogaster* was used as preliminary data to apply for the ICGEB grant. We hypothesized that resveratrol will serve as a therapeutic agent in different genetic models of Parkinson's disease (PD, Pink-I, Parkin etc.) using *Drosophila melanogaster* as a model. We are asking the following questions in this research:

1. What are the effects of resveratrol on the survival, lifespan and locomotion of PD flies?
2. What are the actions of resveratrol on oxidative stress and on biochemical features associated with Parkinson's disease onset?
3. How can we implement and optimize different biochemical and molecular techniques to validate potential therapy for Parkinson's disease/symptoms?
4. How can we monitor molecular changes associated with resveratrol treatment in PD flies?

Studies have been carried out to answer questions 1 and 2 above. The project is still ongoing and in the 4th year of no cost extension

(c) Dissertation and Thesis

- **Ph.D. Thesis: Abolaji A.O., 2010.**
Standardisation, Biochemical and Reproductive Toxicity studies on Local *Artemisia annua* in Wistar rats.

(d) Peer Recognition

- **Workshop and Events**

1. Co-organizer and Secretary of Local Organizing Committee: DrosAfrica-ICGEB Course at the University of Ibadan, Ibadan, Nigeria. Date: July 2017.

2. **Workshop Facilitator:** *Drosophila melanogaster*: A versatile model in experimental medicine. Venue: WHO Africa Centre of Excellence in Phytomedicine Research and Development, University of Jos, Plateau State, Nigeria. Date: 05-12-2016.

3. **Co-Facilitator:** One day Interactive session on *Drosophila* Models for Biomedical. **Date:** February 2016.

4. **Workshop facilitator:** Applications of Biotechniques to Medicinal Plant research. **Venue:** Obafemi Awolowo University, Ile Ife, Osun State, Nigeria.

Date: June 11-16 2018. (<https://twitter.com/DrosLabUI/status/963058664545357824>)

- **I review for the following Journals:**

Toxicology and Applied Pharmacology; Toxicology; Human and Experimental Toxicology; Food and Chemical Toxicology; Pharmaceutical Biology; Natural Product Research; Environmental Toxicology and Pharmacology.

- **Grant Reviewer:** Health and Medical Research Fund from The Government of the Hong Kong Special Administration Region (2013-Date).

- **Chairperson:** Alternative to mammalian model III Poster Session in the 2015 Society of Toxicology Annual Meeting in San Diego, CA., U.S.A., March 22–26.

- **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.

X. PUBLICATIONS

(a) Chapter in Book already published

1. **Abolaji, A.O.**, Kamdem, J.P., Igharo, O.G. and Adedara A. (2020). Experimental models III: Biology and use of *Drosophila melanogaster* as a model in biomedical research. In: Anetor, J.I. and Igharo, O.G. (Eds.) *The Biomedical Explorer: A Textbook of Biomedical Research Innovation*. Lagos: UNILAG Press and Bookshop LTD. 127-144pp. ISBN 978-978-57646-2-6. (Nigeria).

(b) Articles that have already appeared in learned journals

2. 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.
3. 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.
4. 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.
5. John R, **Abolaji AO**, Adedara AO, Ajayi AM, Aderibigbe AO, Umukoro S. (2022). Jobelyn® extends the life span and improves motor function in *Drosophila melanogaster* exposed to lipopolysaccharide via augmentation of antioxidant status. *Metabolic Brain Disease* 37(4):1031-1040. doi: 10.1007/s11011-022-00919-4. Epub 2022 Feb 14.
6. Adesanoye OA, Farodoye OM, Adedara AO, Falobi AA, **Abolaji AO**, Ojo OO. (2021). Beneficial actions of esculentin-2CHa(GA30) on high sucrose-induced oxidative stress in *Drosophila melanogaster*. *Food and Chemical Toxicology* 157:112620. doi: 10.1016/j.fct.2021.112620.
7. Oyebo OT, **Abolaji AO**, Faleke HO, Olorunsogo OO. (2021). Methanol fraction of *Ficus mucosa* (welw) prevents iron-induced oxidative damage and alters mitochondrial dysfunction in *Drosophila melanogaster*. *Drug and Chemical Toxicology* 30:1-9. doi: 10.1080/01480545.2021.1979997.
8. Oyibo A, **Abolaji AO**, Odunola OA. (2021). Carcinogen sodium arsenite disrupts antioxidant and redo homeostasis in *Drosophila melanogaster*. *Journal of Basic Clinical Physiology and Pharmacology* doi: 10.1515/jbcpp-2020-0235.
9. Fasae KD, **Abolaji AO**, Faloye TR, Odunsi AY, Oyetayo BO, Enya JI, Rotimi JA, Akinyemi RO, Whitworth AJ, Aschner M. (2021). Metallobiology and therapeutic chelation of biometals (copper, zinc and iron) in Alzheimer's disease: Limitations, and current and future perspectives. *Journal of Trace Element in Medicine and Biology*. 67:126779. doi: 10.1016/j.jtemb.2021.126779.

10. Johnson TO, **Abolaji AO**, Omale S, Longdet IY, Kutshik RJ, Oyetayo BO, Adegboyega AE, Sagay A. (2021). Benzo[a]pyrene and Benzo[a]pyrene-7,8-dihydrodiol-9,10-epoxide induced locomotor and reproductive senescence and altered biochemical parameters of oxidative damage in Canton-S *Drosophila melanogaster*. *Toxicology Reports*. 8:571-580. doi: 10.1016/j.toxrep.2021.03.001.
11. Nkpaa KW, Owoeye O, Amadi BA, Adedara IA, **Abolaji AO**, Wegwu MO, Farombi EO. (2021). Ethanol exacerbates manganese-induced oxidative/nitrosative stress, pro-inflammatory cytokines, nuclear factor- κ B activation, and apoptosis induction in rat cerebellar cortex. *Journal of Biochemical and Molecular Toxicology*. 35(3):e22681. doi: 10.1002/jbt.22681.
12. Oyaluna, Z., **Abolaji, A.O.**, Babalola, C.P. (2021). Effects of ruzu herbal bitters, a traditional nigerian polyherbal drug, on longevity and selected toxicological indices in *Drosophila melanogaster*. *Biointerface Research in Applied Chemistry*. 11(2), pp. 9638–9645
13. Balogun, O., **Abolaji, A.O.**, Adedara, A.O., Akinsanmi, A.O., Alemika, T.E. (2021). Ameliorative role of *Plectranthus esculentus* on 4-vinylcyclohexene monoepoxide-induced oxidative stress in *Drosophila melanogaster*. *Biointerface Research in Applied Chemistry*. 11(2), pp. 9432–9442
14. Ibraheem, O., Bankole, D., Adedara, A., **Abolaji A.O.**, Fatoki T.H., Ajayi, J.M., Eze, C.T. (2021). Methanolic leaves and arils extracts of ackee (*Blighia sapida*) plant ameliorate mercuric chloride-induced oxidative stress in *Drosophila melanogaster* *Biointerface Research in Applied Chemistry*. 11(1), pp. 7528–7542
15. **Abolaji AO**, Fasae KD, Iwezor CE, Farombi EO. (2020). D-Penicillamine prolongs survival and lessens copper-induced toxicity in *Drosophila melanogaster*. *Toxicology Research (Camb)*. 9(4):346-352. doi: 10.1093/toxres/tfaa032.
16. Adesanoye OA, **Abolaji AO**, Faloye TR, Olaoye HO, Adedara AO. (2020). Luteolin-Supplemented diets ameliorates Bisphenol A-Induced toxicity in *Drosophila melanogaster*. *Food and Chemical Toxicology*. 142:111478. doi: 10.1016/j.fct.2020.111478.
17. **Abolaji AO**, Omozokpia MU, Oluwamuyide OJ, Akintola TE, Farombi EO. (2020). Rescue role of hesperidin in 4-vinylcyclohexene diepoxide-induced toxicity in the brain, ovary and uterus of Wistar rats. *Journal of Basic Clinical Physiology and Pharmacology*. 31(2): doi: 10.1515/jbcpp-2018-0115.
18. **Abolaji AO**, Fasae KD, Iwezor CE, Aschner M, Farombi EO. (2020). Curcumin attenuates copper-induced oxidative stress and neurotoxicity in *Drosophila melanogaster*. *Toxicology Reports*. 7:261-268. doi: 10.1016/j.toxrep.2020.01.015.
19. Oyetayo, B.O., **Abolaji, A.O.**, Fasae, K.D., Aderibigbe, A. (2020). Ameliorative role of diets fortified with Curcumin in a *Drosophila melanogaster* model of aluminum chloride-induced neurotoxicity. *Journal of Functional Foods*, 2020, 71, 104035

20. Fatoki, T.H., Ibraheem, O., **Abolaji, A.O.**, Sanni, D.M. (2020). In silico study of anticarcinogenic potential of the selenoprotein bthd from *Drosophila melanogaster*. Identifying the anticancer peptide CRSUR from the conserved region. *Nova Biotechnologica et Chimica*. 19(1), pp. 37–51
21. Oyeboode, O.T., **Abolaji, A.O.**, Oluwadare, J.O., Adedara, A.O., Olorunsogo, O.O. (2020). Apigenin ameliorates D-galactose-induced lifespan shortening effects via antioxidative activity and inhibition of mitochondrial-dependent apoptosis in *Drosophila melanogaster*. *Journal of Functional Foods*, 69, 103957
22. **Abolaji A.O.**, Ajala V.O., Adigun J.O., Adedara I.I., Kinyi H.W., Farombi E.O. (2019). Protective role of resveratrol, a natural polyphenol, in sodium fluoride-induced toxicity in *Drosophila melanogaster*. *Exp Biol Med* (Maywood). doi: 10.1177/1535370219890334.
23. Nkpaa K.W., Awogbindin I.O., Amadi B.A., **Abolaji A.O.**, Adedara I.A., Wegwu M.O., Farombi E.O. (2019). Ethanol exacerbates manganese-induced neurobehavioral Deficits, striatal oxidative stress, and apoptosis via regulation of p53, Caspase-3, and Bax/Bcl-2 ratio-dependent pathway. *Biology Trace Element Research*. 191(1):135-148.
24. **Abolaji A.O.**, Adedara A.O., Adie M.A., Vicente-Crespo M., Farombi E.O. (2018). Resveratrol prolongs lifespan and improves 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine-induced oxidative damage and behavioural deficits in *Drosophila melanogaster*. *Biochemical and Biophysical Research Communications* Vol. 503 No. 2,1042-1048.
25. Farombi E.O., **Abolaji A.O.**, Adetuyi B., Awosanya O., Fabusoro M. (2018). Neuroprotective role of 6-Gingerol-rich fraction of *Zingiber officinale* (Ginger) against acrylonitrile-induced neurotoxicity in male Wistar rats. *Journal of Basic Clinical Physiology and Pharmacology*. doi: 10.1515/jbcpp-2018-0114
26. Farombi EO, **Abolaji AO**, Farombi TH, Oropo AS, Owoje OA, Awunah MT. (2018). *Garcinia kola* seed biflavonoid fraction (Kolaviron), increases longevity and attenuates rotenone-induced toxicity in *Drosophila melanogaster*. *Pesticide Biochemistry and Physiology*. Vol. 145, 39-45.
27. Kamdem JP, Roos DH, Sanmi AA, Calabró L, **Abolaji AO**, de Oliveira CS, Barros LM, Duarte AE, Barbosa NV, Souza DO, Rocha JBT (2018). Productivity of CNPq Researchers from Different Fields in Biomedical Sciences: The Need for Objective Bibliometric Parameters-A Report from Brazil. *Science and Engineering Ethics*. doi: 10.1007/s11948-018-0025-5.
28. Akinyemi AJ, Obboh G, Ogunsuyi O, **Abolaji AO**, Udofia A. (2018). Curcumin-supplemented diets improve antioxidant enzymes and alter acetylcholinesterase genes expression level in *Drosophila melanogaster* model. *Metabolic Brain Disease*. Vol. 33 No. 2, 369-375
29. Adebayo O.A., Adesanoye O.A., **Abolaji, A.O.**, Kehinde, A.O., Adaramoye, O.A. (2018). Administration of first line anti-tuberculosis drugs induces ovarian and uterine

- oxidative stress and disruption of endocrine balance in rats. *Journal of Basic Clinical Physiology and Pharmacology*. Vol. 29 No. 2, 131-140.
30. **Abolaji AO**, Babalola OV, Adegoke AK, Farombi EO. (2017). Hesperidin, a citrus bioflavonoid, alleviates trichloroethylene-induced oxidative stress in *Drosophila melanogaster*. *Environmental Toxicology and Pharmacology*. Vol 55, 202-207.
 31. **Abolaji AO**, Ojo M, Afolabi TT, Arowoogun MD, Nwawolor D, Farombi EO. (2017). Protective properties of 6-gingerol-rich fraction from *Zingiber officinale* (Ginger) on chlorpyrifos-induced oxidative damage and inflammation in the brain, ovary and uterus of rats. *Chemico-Biological Interactions*. Vol. 270, 15-23.
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tetrachloride-induced hepatic damage in rats. *Canadian Journal of Pure and Applied Sciences* Vol. 5 No. 3, 1597-1602. (Canada).

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Citation Links

- **Google citation (H-index of 24):** https://scholar.google.com/citations?hl=pt-BR&user=rMitq2AAAAAJ&view_op=list_works&sortby=pubdate
- **Scopus Author ID: 24334109900**
- www.orcid.org/0000-0002-4203-452X

Selected Major Conferences and Workshops Attended With Papers Read

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.
2. **Abolaji, A. O.**, Eteng, M.U., Ebong, E.P., Dar, A., Choudhary, M.I. (2010): Standardisation of *Artemisia annua* using Reversed Phase High Performance Liquid Chromatography (RP-HPLC). **International Biotechnology Symposium, Covenant University**. 23rd-26th March, 2010.
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.
5. **Abolaji, A.O.**, Farombi, E.O., Choudhary M.I. (2012): Standardisation of African antimalarial medicinal plants: *Artemisia annua* as a case study. **3rd UNIBADAN Conference of Biomedical Research**, July 24-27, 2012.
6. **Abolaji, A.O.**, Kamdem, J.P., Farombi, E.O., Rocha, J.B.T. (2013): Artemisinin antimalarials during pregnancy: Toxic in animals, safe in humans? **XVIII Brazilian Congress of Toxicology**, 7-10 September, 2013, Venue: Events Centre, Plaza Hotel, San Rafael, Porto Alegre, Brazil.
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.
8. **Abolaji, A.O.**, Kamdem, J.P., Lugokenski, T., Nascimento, T.K., Waczuk, E.P., Farombi, E.O., Rocha, J.B. (2014): 4-Vinylcyclohexene-induced changes in gene expression and antioxidant status is mediated via oxidative stress in *Drosophila melanogaster*. **Society of Toxicology 2014 Meeting**, 23-27 March, 2014. Venue: Phoenix Convention Center, Phoenix, Arizona. U.S.A.

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, 2-monoepoxide 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 stress-antioxidant 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 1-methyl-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.