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2

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xiii. Qualification

☑ Ph.D. Applied Biochemistry. 2014

☑ PGD. Food Agriculture and Biological Engineering. 2012

☑ M.Sc. Biochemistry (Molecular Drug Toxicology) 2008

☑ B.Sc. Environmental Management & Toxicology. 2003

xiv Membership of Professional Bodies

☑ Society of Toxicology (SOT)-USA

☑ International Society of Neurochemistry (ISN)-USA

☑ Nigeria Society of Biomedical Research.

☑ Nigerian Society for Experimental Biology (NISEB)

☑ Nigerian Society of Biochemistry and Molecular Biology (NSBMB).

☑ National Society of Functional foods and Nutraceuticals (Pharma foods)

xv Awards Received

☑ Rated among top 500 Nigerian scientists by Scopus (20th April, 2020)

☑ Pioneer Staff Adviser Awards by National Association of Biochemistry Students (NABS)

KWASU chapter (2014)

☑ Undergraduate Scholarship Awards by Federal Government (May, 2001)

xvi Research Conducted

- ☒ Efficacy of medicinal flavonoid from Bitter Gourd on cognitive disorders in a sub-chronic prostrate induced pathology using hypertensive animal model
- ☒ Corrective therapy of naringin against renal failure related to Lesch-Nyhan Disease in a rat model via NOS-cAMP-PKA and BDNF/TrkB pathways
- ☒ Mantis religiosa egg-cake prevents ocular vasoconstriction syndrome triggered by inflammatory mediators via NOS/cGMP/PKG signalling pathway in rats exposed to mixture of flavouring enhancers
- ☒ Application of Garcinia kola oil constituents against GABA A ergic system alteration in Huntington's disease using animal model
- ☒ Exposure to chemical hazards, long work duration and its associated symptoms of neurological disorders among workers of plastic industries in Anambra State
- ☒ Impact assessment of workplace exposure on prostate of workers in crude oil industries of Delta State, Nigeria
- ☒ Effect of occupational health risks on pulmonary health sweepers in Ikorodu Local Government Area, Lagos State

3

- ☒ Development of selenium nanoparticles from *Corchorus olitorius* L. leaves to treat hypertension and polycystic ovarian syndrome in rats
- ☒ Effect of lycopene on oculo-pulmonary nucleotides, immune T-cells and molecular responses in PM 2.5 wood smoke induced chronic obstructive pulmonary disease in rats.
- ☒ Effect of thymoquinone on hypertensive maternal parents and developmental neuropathy of F1 male generation in rats exposed to mixture of Bisphenol-A analogues
- ☒ Biochemical and molecular responses of Garcinia kola oil on breast cancer and hypertension using in-silico and in vivo approaches

xvii Conferences Attended

☒ Pharma-Food Congress on the Role of Functional Foods and Nutraceuticals in the Era of COVID-19 held at Landmark University Omu-Aran, Nigeria, 4-7, October, 2022. Paper Read: Roasted cashew nut supplement inhibits MCP-1 and inflammatory mediators to correct hypertension related liver failure induced by mixed-fractionated petroleum products via NOS-cAMP-PKA signalling pathway in male rats

☒ Sustaining Biosciences for human and Agricultural Development. 2nd Biennial Conference held at Postgraduate hall of Federal University of Agriculture, Abeokuta, Nigeria, 12-15 November, 2019.

☒ Pharma-Food Congress on Phytomedicine and Functional Foods: Keys to sustainable Health Care Delivery in Sub-Sahara Africa held at T.I Francis Auditorium of Federal University of Technology Akure, Nigeria, 21-24, July, 2019. Paper Read: Naringin protects against Bisphenol-A induced ocular toxicity as implication of catarrh in hypertensive rat model

☒ Alexander von Humboldt Kolleg International Conference on Functional Foods and Nutraceuticals: Translating the knowledge of food bioactive compounds to Effective Health Care Delivery in Developing World held at Federal University of Technology, Akure, Nigeria, 2 – 6, April, 2017. Paper Read: Effect of dietary supplementation of black seed on testicular serum hormones and sperm functions in rats' exposed to leachate from battery recycling site.

☒ Alexander von Humboldt Kolleg International Conference on translating research findings into policy in developing countries held at the College of Health Sciences, LAUTECH Osogbo, Nigeria, 24 – 27, January, 2017. Paper Read: Differential protection of *Launea taraxacifolia* on cardiac oxidative damage, econucleotidase and carbohydrate catabolizing enzymes in rats exposed to metropolitan polluted river water

☒ Alexander von Humboldt Kolleg International Conference on Multidisciplinary Forum on Molecular Technology: Laying the Foundation for Revolutionized Research in Nigeria

held at Multimedia Centre of Excellence Auditorium, University of Lagos, Lagos, Nigeria.

10- 15th October, 2016. Paper Red: Therapeutic approaches of black seed oil and its underlying mechanisms against kidney dysfunction in haloperidol-induced male rats.

☒ 5th Biannual Unibadan Conference of Biotechnology for Health and Sustainable Development, held at UI hotel, Conference centre, University of Ibadan, Ibadan, Nigeria.12-15th July, 2016. Paper read: (i) Differential protection of black-seed oil on econucleotidase, cholinesterases and aminergic catabolizing enzyme in haloperidol-induced neuronal damage of male rats

☒ Alexander von Humboldt Kolleg international workshop on ethical issues in Research and Scholarship in Nigeria Universities held at UI hotel, Conference centre, University of Ibadan, Ibadan, Nigeria.10- 14th February, 2016.

☒ 2nd Annual conference of Environmental Health Sciences held at CESDEV Hall, Awolowo Avenue, University of Ibadan, Ibadan, Nigeria.1st -5 November, 2015. Paper read: Effect of *Launea taraxacifolia* methanolic extract on relevant markers of spermatogenesis in rats exposed to Surulere polluted river water of Kwara State, Nigeria.

☒ 33rd Annual conference of the Nigerian society of Biochemistry and molecular Biology (NSBMB), held at University Auditorium, University of Ilorin, Ilorin, Nigeria.11th-14th November, 2014. Paper read: GC-MS Characterization of methanol extract stem bark of *kigelia africana* and its inhibitory property on some key markers linked with infertility in rat.

☒ 4th Biannual Unibadan Conference of Biotechnology for Health and Sustainable Development, held at Trenchard Hall, University of Ibadan, Ibadan, Nigeria. 1- 4th July, 2014. Paper read: Sub-acute exposure to Mercury induces key markers linked with neurotoxicity and low level ATP in Rat: Modulatory potentials of *Pteleiosis suberosa* (stem bark)

xviii Publications

1 Akintunde, J.K: Opeolu B.O and Aina O.O (2010). Exposure to potassium carbonate emulsion induced Nephro-toxicity in experimental animals. Institution Journal of

Biological Sciences. (3):29-32.

2 Siemuri E.O; Akintunde J.K and Adeyinka E.A (2011). Acid-hydrolysed local cowpea (*Vigna unguiculata*) as culture media for laboratory Yeast (*Saccaromyces cerevisiae*): International Journal of Research Microbiology. 2(6): 187-191.

3 Adedayo M R; Ajiboye A.E; Akintunde J.K; Odaibo A.D (2011); Single Cell Protein as Nutritional Enhancers: Journal of Advances in Applied Science Research 2(5): 396-400

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4 Ajiboye A.E; Kolawole O.M; Oladosu T.O; Adedayo M.R and Akintunde J.K (2011). Studies on the microorganisms associated with dried meat (Tinko) sold in Ilorin. African Journal of Microbiology 5(24):4150-4154.

5 Farombi, EO; Akintunde, JK; Nzute,N; Adedara, IA and Arojojoye O (2011) Municipal landfill leachate induces hepatotoxicity and oxidative stress in rats. Journal of Toxicology and Industrial Health. 28(6) 532–541. Published by Sage Publications Ltd. Available online at <https://doi.org/10.1177/074823371141694>

6 Irondi AE, Oboh G and Akintunde JK (2012) Comparative and synergistic antioxidant properties of *Carica papaya* and *Azadirachta indica* leaves. International Journal of pharmaceutical sciences and research 3(12): 4773-4779.

7 Akintunde J. K, Siemuri E. O, Bello I. J, Dairo K. P , Adedayo M. R, Ajiboye E. A (2012). Tears Production: Implication for Health Enhancement. Scientific Reports 1(10):476. Available online at [doi:10.4172/scientificreports.476](https://doi.org/10.4172/scientificreports.476)

8 Akintunde JK, Ajiboye JA, Siemuri EO, Oyelowo SB, Sunday OJ (2012) Sub-Chronic Treatment of Sildenafil Citrate (Viagra) on some Enzymatic and Non-

Enzymatic Antioxidants in Testes and Brain of Male Rats. *Journal of Pharmacology and Drug Delivery Resources* 1:1 doi.org/10.4172.1000105.

9 Siemuri E.O; Akintunde J.K; Bello I.J and Dairo K.P (2012). Assessment of cytotoxic effects of methanol extracts of *Calliandra portoricensis* using Brine Shrimp (*Artemia salina*) Lethality Bioassay. *Global Journal of Bioscience and Biotechnology*. 1 (2): 257-260.

10 Dairo K.P Akintunde J.K (2012). Evaluation of plant Growth-promoting Rhizobacteria for the control of bacterial wilt disease of tomato. *Global Journal of Bioscience and Biotechnology*.1(2): 253-256.

11 Akintunde J. K; Siemuri E. O; Bello I. J; Dairo K. P; Adedayo M. R and Ajiboye E. A (2012). Tear production: Implication for Health Enhancement. *Scientific Reports*.1 (10): 01-08

12 Ajiboye J.A, Akintunde J.K, Oyagbemi A.A, Akinyinka E.O, Arojojoye O (2012). Influence of Isoniazid Treatment on Microsomal Lipid peroxidation and Antioxidant Defense Systems of Rats. *Journal of Drug Metabolism and Toxicology* 3:120. Published by omics. Available online at doi: 10.4172/2157-7609.1000120

13 Ajiboye J.A; Oyagbemi A.A; Akintunde J.K; Akinyinka E.O and Arojojoye O (2012). Microsomal Lipid Peroxidation, Antioxidant Enzyme Activities in Brain of Male Rats during Long-Term Exposure to Isoniazid. *Journal of Drug Metabolism and Toxicology* 3 (4):100127

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14 Akintunde JK, Oboh G (2012) In Vitro Oxidative Damage Induced in Livers, Hearts and Kidneys of Rats Treated with Leachate from Battery Recycling Site: Evidence for Environmental Contamination and Tissue Damage. *Journal of Clinical and*

15 Irondi A.E; Anokam K.K; Chukwuma P.C; Akintunde J.K and Nurain I.O (2013) Variation in nutrients composition of *Tetrapleura tetraptera* fruit at two maturity stages. *International Journal of Biosciences* 3 (9): 102-110.

16 Hassan B.O; Siemuri O.E, and Akintunde J.K (2013) Assessment of cytotoxicity, antioxidant and free radical scavenging activities of the ethylacetate extract of *Calliandra portoricensis* root bark. *International Journal of Pharmaceutical Sciences and Research* 4(5): 1800-1807.

17 Akintunde JK, Ajiboye JA, Siemuri EO, Oyelowo SB, Sunday OJ; Abam E.O; Irondi A.E (2013) Effect of anti-erectile dysfunction drug on key tissues in healthy male rats. *American Journal of Drug Discovery and Development*. 3(2):32-46

18 Akintunde JK, Oboh G (2013) Municipal Auto-Battery Recycling-Site Leachate Activates Key Enzymes Linked to Non-Insulin Dependent Diabetes Mellitus (NIDDM) and Hypertension. *Journal of Diabetes and Metabolism* 4: 235

19 Akintunde, J.K.& Oboh, G. (2013): Exposure to leachate from municipal battery recycling site: implication as key inhibitor of steroidogenic enzymes and risk factor of prostate damage in rats. *Review of environmental health*. 28(2-3):107-15. Published by De Gruyter. Available online at <https://doi.org/10.1515/reveh-2013-0009>.

20 Akintunde, J.K., Oboh, G.& Akindahunsi, A.A. (2013): Testicular membrane lipid damage by complex mixture of leachate from municipal battery recycling site as indication of idiopathic male infertility in rat. *Journal of interdisciplinary Toxicology*. 6(4): 192–197. Published by Versita. Available online at <https://doi.org/10.2478/intox-2013-0028>

21 Ajiboye J.A, Akintunde J.K, Oladejo O.S, Sabiu S.A (2015) Chemoprevention of Silymarin and Vitamin C on Isoniazid Induced Hepatotoxicity in Experimental Rat Model. *Journal of Toxin* published. 2 (1):01-03 (USA)

22 Akintunde, J.K.& Oboh, G. (2015): Sub-chronic exposure to leachate activates key markers linked with neurological disorder in Wistar male rat. *Environmental Science and Pollution Research*. 22:18541–18553. Published by springer. Available online at <https://doi.org/10.1007/s11356-015-5327-4>

23 Akintunde, J.K. & Oboh, G. (2015): Depletion of cellular adenosine triphosphate and hepatocellular damage in rat after sub-chronic exposure to leachate from

7

anthropogenic recycling site. *Human and Experimental Toxicology*. 34 (11): 1083-1095. Published by Sage Publications Ltd. Available online at <https://doi.org/10.1177/0960327115569809>.

24 Akintunde, J.K., Oboh, G.& Akindahunsi, A.A. (2015): Inhibition of key markers linked with spermatogenesis and cellular ATP by sub-chronic exposure to leachate in a rat model. *Archive Environmental Contamination and Toxicology*. 68(1): 159–168. Published by springer. Available online at <https://doi.org/10.1007/s00244-014-0068-9>

25 Siemuri, E.O., Akintunde, J.K.& Salemcity, A.J. (2015): Effects of sub-acute methanol extract treatment of *Calliandra portoricensis* root bark on antioxidant defence capacity in an experimental rat model. *Journal of Basic Clinical Physiology and Pharmacology*. 26(4):375-382. Published by de gruyter. Available online at <https://doi.org/10.1515/jbcpp-2013-0151>

26 Akintunde, J.K.& Bolarin, O.E. (2015): Research on garlic capsule and Selenium-vitamin A, vitamin B, vitamin C applied in therapy of acute hepatocellular damage in a rat model. *Journal of Acute Disease*.4(4):298-404.Published by Elsevier. Available online at <https://doi.org/10.1016/j.joad.2015.06.008>

27 Akintunde, J.K., Oboh, G.& Akindahunsi, A.A. (2015). Sub-chronic exposure to EOMABRS leachate induces germinal epithelial cell lesions, sperm abnormality and oxidative damage in rats. *Asian Pacific Journal of Reproduction*. 4 (4): 288–297. Published by Elsevier. Available online at <https://doi.org/10.1016/j.apjr.2015.07.006>

28 Nurain I.O; Akintunde J. K; Adebisi K.E; Azeez L.A; Bamisaye F. A; Ajani E. O; Bewaji C.O (2015). Intake of Powdered Tea Supplemented with Moringa oleifera Leaf Attenuates Some Haematological Parameters in Malnourished Children. *Journal of Biological and Chemical Research* 32 (2): 892-901.

29 Irondi A.E; Iweala E.J; Agboola O.S; Akintunde J.K; Ajiboye J.A (2015) Distribution of Metabolites and Antioxidant Activity in the Berry and Shoot of Solanum pseudocapsicum Grown in Nigeria. *International Journal of Biochemistry Research & Review* 8(1): 1-9.

30 Akintunde, J.K., Bolarin, E.O.& Akintunde, D.G. (2016): Garlic capsule and selenium-vitamins ACE combination therapy modulate key antioxidant proteins and cellular adenosine triphosphate in lisinopril-induced lung damage in rats. *Drug Metabolism and Personalized Therapy*. 31(1): 47–54. Published by De Gruyter. Available online at <https://doi.org/10.1515/dmpt-2015-0035>

31 Akintunde JK, Akintunde DG, Irondi EA, Babaita K, Labaika R, Sunday O (2016). Antioxidants from stem bark of *Kigelia africana* inhibit free radicals and membrane

lipid damage in rat testes in vitro. Oxidant antioxidant in Medical Science published by Gesdav, 5(2): 63-69.

32 Akintunde JK, Ajiboye JA, Soyinka OO, Adeyemi AA (2016). Stem Bark Extract from *Alstonia boonei* attenuates Cholesterol, Triglyceride and Oxidative Damage via Low Immunohistochemical Expression in Small Intestinal Tract of Male Rats published by Journal of Diabetes Metabolism 7: 715.

33 Arojojoye OA, Nwaechefu OO, Ajiboye JA, Akintunde JK (2016). Induction of oxidative stress in *Clarias gariepinus* from Eleyele River in Nigeria. Advances in Environmental Research published by Aensi, 5(3): 179-187 (UK)

34 Akintunde, J.K.& Irechukwu, C.A. (2016): Differential protection of black-seed oil on econucleotidase, cholinesterases and aminergic catabolizing enzyme in haloperidol-induced neuronal damage of male rats. Therapeutic Advances in Drug Safety.7(4):132-146. Published by Sage publications Ltd. Available online at <https://doi.org/10.1177/2042098616656812>.

35 Olalubi, A.O., Owoyele, B.V., Ayinla, M.T. & Akintunde, J.K. (2016): Glucose absorption in the intestine of albino rats. Journal Basic Clinical Physiology Pharmacology. 27 (4):357-361. Published by De Gruyter. Available online at <https://doi.org/10.1515/jbcpp-2015-0052>

36 Ilesanmi, A.O., Ekwe, G.J., Ilesanmi, R.I., Ogundele, D.T., Akintunde, J.K.& Olalubi O.A. (2016): Prevalence of latent eosinophilia among occupational gardeners at Babcock University, Nigeria. Asian Pacific Journal of Tropical Biomedicine. 6(6):511-515. Published by Elsevier. Available online at

<https://doi.org/10.1016/j.apjtb.2015.12.022>

37 Akintunde, J.K. (2017): Functional oil from black seed differentially inhibits aldose-reductase and ectonucleotidase activities by up-regulating cellular energy in haloperidol-induced hepatic toxicity in rat liver. *Journal of oleo science*. 66 (9): 1051-1060. Published by Japan Oil Chemists Society. Available online at <https://doi.org/10.5650/jos.ees17036>

38 Ajani, E.O., Sabiu, S., Zakari, M., Olanipekun, B.E., Akintunde, J. K. & Bamisaye, F.A. (2017): Antioxidant Capacity of Fractionated Extract and Structural Elucidation of Isolated Compounds from Leaf Extract of *Hydrocotyl bonariensis* Comm. Exlam, *Journal of Biologically Active Products from Nature*.7(3):166-177. Published by Taylor and Francis. Available online at <https://doi.org/10.1080/22311866.2017.1329667>

39 Akintunde J.K, Labaika R.G (2017). Neuro-Preventive Effect and Elevation of Cellular Adenosine Triphosphate by PUFAs from *Pteleiosis suberosa* Stem Bark on Mercury Sub-Acute Exposed Rats. *Journal of acute medicine*, 7(1):1-9.

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40 Ajiboye J.A, Akintunde J.K, Okewuyi S.O, Okafor U.E (2017). PUFAs from Stem Bark of *Alstonia boonei* synergistically modulate diabetic, hepatic and androgenic damage by low expression of COX-2 and iNOS in rats. *Journal of molecular biomarker and diagnosis* 8: 334.

41 Akintunde, J.K.& Abubakar, O.K. (2017): Novel therapeutic approaches of natural oil from black seeds and its underlying mechanisms against kidney dysfunctions in haloperidol-induced male rats. *Journal of Drug metabolism and personalized*

therapy.32 (2):97-107.Published by De Gruyter. Available online at
<https://doi.org/10.1515/dmpt-2016-0044>

42 Akintunde, J.K.& Babaita, A.K. (2017): Effect of PUFAs from *Pteleopsis suberosa* stem bark on androgenic enzymes, cellular ATP and prostatic acid phosphatase in mercury chloride – Exposed rat. *Middle East Fertility Society Journal* 22:211-218. Published by Elsevier. Available online at
<https://dx.doi.org/10.1016/j.mefs.2017.02.005>.

43 Irondi, A.E., Akintunde J.K. Agboola S.O.& Boligon A.A. (2017): Blanching influences the phenolics composition, antioxidant activity and inhibitory effect of *Adansonia digitata* leaves extract on α -amylase, α -glucosidase and aldose reductase. *Journal of Food Science and Nutrition*. 5 (2): 233-242. Published by Wiley and Sons Ltd. Available online at <https://doi.org/10.1002/fsn3.386>

44 Akintunde, J.K.& Oboh, G. (2017). Nephritic cell damage and antioxidant status in rats exposed to leachate from battery recycling industry. *Journal of Interdisciplinary Toxicology*. 9(1): 1–11. Published by De Gruyter. Available online at
<https://doi.org/10.1515/intox-2016-0001>

45 Akintunde, J.K, Irondi, A.E., Ajani, E.O.& Olayemi, T.V. (2018): Neuroprotective effect of dietary black seed flour on key enzymes linked with neuronal signalling molecules in rats exposed to mixture of environmental metals. *Journal of Food Biochemistry* 42 (2):1-11. Published by Wiley Black-well. Available online at
<https://doi.org/10.1111/jfbc.12573>

46 Akintunde, J.K., Irondi, A.E, Ajani, E.O.& Olayemi, T.V. (2018): Dietary inclusion of black seed flour inhibits reproductive alterations via signal transduction by depleting ectoenzyme, adenosine deaminase and acetylcholinesterase activities in rats

intoxicated with mixed environmental metals. *Journal of Biologically Active Products from Nature*, 8 (6):376-392. Published by Taylor and Francis. Available online at <https://doi.org/10.1080/22311866.2018.1523687>

47 Adedayo, M. R., Akintunde, J.K., Sani, A.& Boligon, A.A. (2018): Effect of dietary supplement from mono-culture fermentation of *Moringa oleifera* seeds by *Rhizopus*

10

stolonifer on hematology and markers linked to hypercholesterolemia in rat model. *Food Science and Nutrition*.6 (7):1826-1848. Published by John Wiley and Sons Ltd. Available at <https://doi.org/10.1002/fsn3.729>.

48 Akintunde, J.K., Aina, M.O. & Boligon, A.A. (2018): *Launaea taraxacifolia* (Amin MS ex c. Jelfney) inhibits oxidative damage and econucleotidase followed by increased cellular ATP in testicular cells of rats exposed to metropolitan polluted river water. *Journal of Basic and Clinical Physiology and Pharmacology*, 29 (2):141-153. Published by De Gruyter. Available online at <https://doi.org/10.1515/jbcpp-2016-0187>.

49 Akintunde J.K, Jimoh Y.O, Boligon A.A (2018). Essential Oil from *Nigella Sativa* Seed Differentially Ameliorates Steroid Genesis, Cellular ATP and Prostate Functions in Anti-Psychotic Drug-Induced Testicular Damage of Rats. *Journal of Clinical Toxicology*, 8 (1):01-09.

50 Akintunde, J.K., Obisesan, O.O., Akinsete, S.J.& Adegoke, A.M. (2019): Diet from *Mantisa religiosa*-egg case abolishes pulmonary dysfunctions triggered by sub-acute exposure to aerosolized-petroleum hydrocarbons in rat model. *Clinical Nutrition Experimental*. 26:44-58. Published by Elsevier. Available online at

<https://doi.org/10.1016/j.yclnex.2019.04.001>.

51 Akintunde, J.K.& Woleola M.T. (2019): Impairment of neuro-renal cells on exposure to cosmopolitan polluted river water followed by differential protection of *Launea taraxacifolia* in male rats. *Comparative Clinical Pathology*. 28:1245-1257. Published by Springer. Available online at <https://doi.org/10.1007/s00580-019-02898-y>.

52 Akintunde, J.K., Ironi, A.E., Ajani, E.O.& Olayemi, T.V. (2019): Diet formulated with black seed flour activates regulatory androgenic enzymes and neuroendocrine hormones in leachate-exposed reproductive damage of rat testes. *Journal of Nutrition and Intermediary Metabolism*. 15: 70–77. Published by Elsevier. Available online at <https://doi.org/10.1016/j.jnim.2019.02.003>

53 Akintunde, J.K., Farouk, A.A.& Mogbojuri, O. (2019): Metabolic treatment of syndrome linked with Parkinson's disease and hypothalamus pituitary gonadal hormones by turmeric curcumin in Bisphenol-A induced neuro-testicular dysfunction of wistar rat. *Biochemistry and Biophysics Reports*. 17: 97–107. Published by Elsevier. Available online at <https://doi.org/10.1016/j.bbrep.2018.12.004>

54 Kuyooro, S.E., Akintunde, J.K., Okekearu, F.C.& Maduagwu, E.N. (2019): Toxicokinetics and biliary excretion of N-nitrosodiethylamine in rat supplemented with low and high dietary proteins. *Journal of dietary supplements*. 16(5):506-520.

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Published by Taylor and Francis. Available online at <https://doi.org/10.1080/19390211.2018.1471561>

55 Akintunde, J. K., Ayeni, S.A., Adeoye, M.A.& Shittu, A.O. (2020): Rat liver and kidney post-mitochondrial dysfunction by addition of chronic mixed metal intoxication and hepatorenal wellness mediated by phenolic components from *Croton zambiscus* leaves. *Environmental Toxicology and Pharmacology* 74:103293.

Published by Elsevier. Available online at <https://doi.org/10.1016/j.etap.2019.103293>

56 Akintunde, J.K., Abioye, J.B.& Ebinama, O.N. (2020): Potential protective effects of naringin on oculo-pulmonary injury induced by wood smoke PM 10 exposure by modulation of oxidative damage and acetylcholine esterase activity in a rat model.

Current Therapeutic Research. 92:100586 Published by Elsevier. Available online at <https://doi.org/10.1016/j.curtheres.2020.100586>

57 Akintunde, J.K., Imhade, I.A.& Oboh G. (2020): Egg case concentrate of *Mantis religiosa* abrogates the accumulation of cadmium in muscular and bone tissues of African catfish via activation of nitric oxide and myeloperoxidase activity. *Journal of food Biochemistry*. 44 (6):1-11. Published by Wiley Black-well. Available online at <https://doi.org/10.1111/jfbc.13287>

58 Akintunde, J.K., Akintola, T. E., Aliu, F.H., Fajoye, M. O. & Adimchi, S.O. (2020): Naringin regulates erectile dysfunction by abolition of apoptosis and inflammation through NOS/cGMP/PKG signalling pathway on exposure to Bisphenol-A in hypertensive rat model. *Reproductive Toxicology*. 95: 123–136. Published by Elsevier. Available online at <https://doi.org/10.1016/j.reprotox.2020.05.007>

59 Akintunde, J.K., Akintola., T.E., Hammed, M.O., Amoo, C.O., Adegoke, A.M.& Ajisafe. L.O. (2020): Naringin protects against Bisphenol-A induced oculoopathy as implication of cataract in hypertensive rat model. *Biomedicine and Pharmacotherapy*. 126: 110043. Published by Elsevier. Available online at <https://doi.org/10.1016/j.biopha.2020.110043>

60 Dosumu, O.A., Rotimi, S.O., Akintunde, J.K., Adeleye, O.O., Sani, L.O., Omotosho O.O., Osinuga, K.T., Taiwo, O.A. & Ojo, O.A. (2020): Effect of vitamin K dietary supplementation in pulmonary dysfunction induced by 7,12-dimethylbez[a]anthracene in rat. *Journal of Biochemical and Molecular Toxicology* 34(12): e22584. Published by John Wiley and Sons Inc. Available online at <https://doi.org/10.1002/jbt.22584>

61 Akintunde, J.K., Akintola, T.E., Adenuga, G.O., Odugbemi, Z.A., Adetoye, R.O. & Akintunde, O.G. (2020): Naringin attenuates Bisphenol-A mediated neurotoxicity in hypertensive rats by abrogation of cerebral nucleotide depletion, oxidative damage

12

and neuroinflammation. *Neurotoxicology*. 81:18–33. Published by Elsevier. Available online at <https://doi.org/10.1016/j.neuro.2020.08.001>

62 Akintunde, J.K., Oyedibu, G.O., Olanipekun, N.J. & Olaleye, O.A. (2021): Modulation of cardiopulmonary toxicity and oxidative stress by phenolic-rich fraction of *Croton zambicus* leaves in rat exposed to chronic mixture of environmental toxicants. *Cardiovascular toxicology*. 20 (6):1-16. Published by Springer. Available online at <https://doi.org/10.1007/s12012-09618-x>.

63 Akintunde, J.K., Farai, T.I., Arogundade, M.R., & Adeleke, J.T. (2021): Biogenic zinc-oxide nanoparticles of *Moringa oleifera* leaves abrogates rotenone induced neuroendocrine toxicity by regulation of oxidative stress and acetylcholinesterase activity. *Biochemistry and Biophysics Reports*.26:1-10. Published by Elsevier. Available online at <https://doi.org/10.1016/j.bbrep.2021.100999>

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of anthropogenic toxicant. *Metabolism Open*. 10:1-14. Published by Elsevier.

Available online at <https://doi.org/10.1016/j.metop.2021.100097>

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