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| **Adewale ‘Segun**james, | **4108, Monticello Garden PL, 33613, Tampa FL** **+1-727-454-1925** **adewalesegunjames@usf.edu** **Adewale James**  |

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|  | **Objective** |

To build a career in metabolic psychiatry, aging, and cardiovascular biology by conducting translational biological research with commitment towards elucidation of molecular mechanisms and providing therapeutic avenues, while exhibiting strong drives for innovations and technical expertise and collaborations.

To contribute positively towards the missions and goals of the organizations by ensuring productivity in a healthy working environment.

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|  | Education |

## PhD (Medical Sciences) | University of South Florida, Tampa, FL, USA

### August 2022 – Present

### (*degree-in-view*)

## MS (Biochemistry) | Federal University of Agriculture, Abeokuta, Ogun State, Nigeria

### *August 2018 – June 2021*

### *(Distinction: 3.65/4)*

## BS (Biochemistry) | Federal University of Agriculture, Abeokuta, Ogun State, Nigeria September 2013 – March 2018

*(Second Class upper division: 3.32/4)*

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|  | Experience |

## Graduate Research Assistant | USF Morsani College Medicine, Department of Biological and Biomedical Sciences, 33620, Tampa FL, USA

### *August 2022 – Present*

**Job description**

* Attending lab meetings and contributing to scientific ideas in the lab
* Performing experiments on laboratory animals such as mice; including Western Blotting, Echocardiography, PCR and gene expression techniques, cell culture experiments, Langendorff heart perfusion system, and EEG.
* Microbiome Research
* Presenting scientific findings at conferences, meetings, and seminars

## Assistant Lecturer | Dept. of Chemical Sciences (Biochemistry Program)

## Augustine University, Ilara-Epe, Lagos State, Nigeria

### *December 2021 – July 2022*

**Job description**

* Conducting lectures for undergraduates
* Performing administrative duties in the department
* Designing, conducting, and supervising undergraduate research projects
* Marking and grading of tests and exams for the undergraduate students

## Demonstrator | College of Biosciences, Department of Biochemistry

## Federal University of Agriculture, Abeokuta, Ogun State, Nigeria

### *June 2019 – September 2021*

**Job description**

* Demonstration of biochemistry practical courses to undergraduates
* Assisted faculties in supervising undergraduates for research projects.
* Kept the laboratory inventories.
* Marked and graded undergraduate practical manuals.
* Organized tutorials for undergraduates for courses in biochemistry

## Medical Laboratory Assistant | Crest Hospital Limited

### **Sango-Ota, Ogun State, Nigeria**

### *September 2015 – January 2016*

**Job description**

* Maintained human sample /specimen records for analysis.
* Conducted routine serum biochemistry tests.
* Kept the laboratory inventories.
* Ensure the safety of the lab according to GOP.
* Participated in trainings, and seminars.

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|  | Skills |

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| * Excellent communication skills
* Molecular biology techniques
* Teamwork
* Creative thing
 | * Scientific writing skills
* Good laboratory Practice
* Critical thinking
* Administrative skills
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|  | Activities |

I am passionate about learning new skills and transferring such to others. I also love to be in a mind-stimulating environment where ideas relating to sciences can be discussed. I derive a lot of satisfaction from volunteering and helping others to actualize their goals and objectives. During my free time I enjoy watching soccer, playing music, and creating ideas.



 **PROFESSIONAL ORGANISATIONS**

* Nigerian Bioinformatics and Genomics Networks (NGBN) (**2017-Present**)
* Association of Medical Sciences Graduate Students (USF-Health Morsani College of Medicine, Tampa FL, USA) (**2022-Present)**
* Society of Toxicologist (USA) - Graduate Student Member, (**2020-Present**)
* The Physiological Society (UK) (**2020 - Present**)
* American Physiological Society (USA) (**2023-Present**)
* American Society for Biochemistry and Molecular Biology (USA) (**2021-Present**)
* American Heart Association (USA) (**2024-present**)
* Sigma XI, The Scientific Research Honor Society (Full Membership) **(2024-present)**
* American Neurological Association (**2024-present**).
* American Society for Nutrition (**2024-present**).

**HONORS AND AWARDS**

* Krzanowski Career Development Award 2024 (Award associated with Graduate program of department of Biomedical Sciences, USFHealth Morsani College of Medicine, University of South Florida, Tampa, FL, USA
* Martin Frank Diversity Travel Award (MFDTA) (Prize money: March 22nd, 2024 (Award associated with American Physiological Society (APS), 2024 Summit for Early Career Scientist and Graduate Students.
* 13th Annual Joseph Krzanowski: *PhD Invited Oral Presenters finalist prize* Award Associated with USFHealth Research Fair day, 2023 at the University of South Florida, Tampa FL, USA.
* Commended by Elsevier for publishing research that is directly linked to the United Nations Sustainable Development Goals (SDGs) (November 2023).
* USF Graduate Fellowship Award (Prize Money: $15,908.00) August 2022 (Award associated with University of South Florida, Tampa, FL, USA).
* Full Scholarship (5 years): University of South Florida, Tampa FL, USA.



 **DISSERTATION AND PROJECTS**

* **James, Adewale S**. (2018). Ameliorative effect of *Aloe Barbandensis* Miller on Alcohol-Induced Tissue Damage in Male Albino Rats (B. Sc. Project).
* **James, Adewale S.** (2021). Modulatory Effects of Lycopene on TLR4/NF-kB Signaling Pathways of Palmitic Acid-Induced Meta-Inflammation in Female Wistar Rats (M. Sc. Dissertation).
* **Publications in Learned Journals**
1. Eteng, O. E., Ugwor, E. I., **James, A. S.,** Moses, C.A., Ogbonna, C. U., Iwara, I. A., Akamo, A. J., Akintunde, J. K., Olokode, A. B., Yinus, M. T., Eru, E. M., and Igiri, A. O. 2024. Vanillic acid ameliorates diethyl phthalate and bisphenol S-induced oxidative stress and neuroinflammation in the hippocampus of experimental rats. *Journal of Biochemical and Molecular Toxicology.* 38:1-12. <https://doi.org/10.1002/jbt.70017>
2. Kehinde, S.A., Olajide, A.T., Fatokun, T.P., Faroud, D., Hadi, N.R., Elgazzar, A.M., **James, A.S.** and Ashour, M.H.M., 2024. Dysfunctional cardiac energy transduction, mitochondrial oxidative stress, oncogenic and apoptotic signaling in DiNP-induced asthma in murine model. *Naunyn-Schmiedeberg's Archives of Pharmacology*, pp.1-11. [*https://doi.org/10.1007/s00210-024-03454-4*](https://doi.org/10.1007/s00210-024-03454-4)
3. Upadhyay, G., Gowda, S. G. B., Mishra, S. P., Nath, L. R., **James, A. S**, Kulkarni, A., ... & Halade, G. V. (2024). Targeted and untargeted lipidomics with integration of liver dynamics and microbiome after dietary reversal of obesogenic diet targeting inflammation-resolution signaling in aging mice. *Biochimica et Biophysica Acta (BBA)-Molecular and Cell Biology of Lipids*, 159542.[*https://doi.org/10.1016/j.bbalip.2024.159542*](https://doi.org/10.1016/j.bbalip.2024.159542)
4. Akinhanmi, T. F., Babalola, A. A., Arogundade, L. A., **James, A. S**., Ugwor, E. I., Babayemi, D. O., ... & Ugbaja, R. N. (2024). *Clerodendrum volubile* and *Vernonia amygdalina* flavonoid fractions exhibit toxic metal chelation, microminerals, and thiol systems–augmenting potentials in arsenic exposed male rats. *International Journal on Nutraceuticals, Functional Foods, and Novel Foods*. <https://www.nutrafoods.eu/index.php/nutra/article/view/205/153>
5. **James, A.S.**, Onunkwor, B.O., Akinseye, V.O., Ugwor, E.I., Daniel, O.U., Eigbe, E.E., Ariguzo, U.D., Igbin, C.O., Amaogu, C.C., Ezeonye, S. and Akagu, G., 2024. Cashew nut-supplemented diet on testicular injury in rats exposed to sub-acute alcohol. *Pharmacological Research-Reports,* p.100001. <https://doi.org/10.1016/j.prerep.2024.100001>
6. Somade, O. T., Ajayi, B. O., Adeyi, O. E., Dada, T. A., Ayofe, M. A., Inalu, D. C., **James, A. S**., ... & Adewole, E. (2024). Ferulic acid interventions ameliorate NDEA-CCl4-induced hepatocellular carcinoma via Nrf2 and p53 upregulation and Akt/PKB-NF-κB-TNF-α pathway downregulation in male Wistar rats. *Toxicology Reports 12:119-127.* [*https://doi.org/10.1016/j.toxrep.2024.01.006*](https://doi.org/10.1016/j.toxrep.2024.01.006)
7. Zoungrana, L. I., Krause-Hauch, M., Wang, H., Fatmi, M. K., Li, Z., Slotabec, L., **James A. S**., Didik, S. & Li, J. (2023). Activated protein C signaling mediates neuroinflammation in seizure induced by pilocarpine. *Biochemistry and Biophysics Reports,* 35, 101550. <https://doi.org/10.1016/j.bbrep.2023.101550>
8. Didik S, Wang H, **James A.S**., Slotabec L, Li J. (2023) Sestrin2 as a Potential Target in Hypertension. *Diagnostics*, 13(14):2374. <https://doi.org/10.3390/diagnostics13142374>
9. Ugwor, E. I., **James, A. S.,** Thomas, F. C., Adeyi, E. O., Uzoka, U. H., Emmanuel, E. A., & Ugbaja, R. N. (2023). Lycopene alleviates ionic disturbances and anaemia by improving iron homeostasis, insulin sensitivity, and ATPases activities in obese female rats. *Obesity Medicine,* 100502. <https://doi.org/10.1016/j.obmed.2023.100502>
10. Taiwo, O. A., Dosumu, O. A., Ajagbe, N., Uwaogu, C., Ugwor, E. I., **James, A. S.** (2023) Dose–response evaluation of cannabichromene on hepato‑renal enzyme and non‑enzyme biomarkers: the pharmacological controlled study. *Comparative Clinical Pathology* <https://doi.org/10.1007/s00580-023-03491-0>
11. Taiwo, O. A., Dosumu, O. A., **James, A. S.,** Ugwor, E. I., Ojo, O. A., Dedeke, G. A., & Ademuyiwa, O. (2023). Pre-puberty cannabichromene exposure modulates reproductive function via alteration of spermatogenesis, steroidogenesis, and eNOS pathway metabolites. *Toxicology Reports*. <https://doi.org/10.1016/j.toxrep.2023.06.001>
12. Adeyi, O. E., Somade, O. T., Ajayi, B. O., **James, A, S.,** Adeboye, T, R., Olufemi, D. A., Oyinlola, E. V., Sanyaolu, E. T., Mufutau, I. O., (2023) The anti-inflammatory effect of ferulic acid is via the modulation of NFκB-TNF-α-IL-6 and STAT1-PIAS1 signaling pathways in 2-methoxyethanol-induced testicular inflammation in rats, *PhytomedicinePlus* doi: <https://doi.org/10.1016/j.phyplu.2023.100464>
13. Adeyi, O. E., Somade, O. T., **James, A. S**., Adeyi, A. O., Ogbonna-Eze, S. N., Salako, O. Q., ... & Nosiru, S. A. (2023). Ferulic acid mitigates 2-methoxyethanol-induced testicular oxidative stress via combined downregulation of FoxO1, PTEN, and modulation of Nrf2-Hmox1-NQO1 signaling pathway in rats. *Pharmacological Research-Modern Chinese Medicine,* 100257. <https://doi.org/10.1016/j.prmcm.2023.100257>
14. Li, Z., Wang, H., Zoungrana, L. I., **James, A. S.,** Slotabec, L., Didik, S., ... & Li, J. (2023). Administration of metformin rescues age-related vulnerability to ischemic insults through mitochondrial energy metabolism. *Biochemical and Biophysical Research Communications*, 659, 46-53. <https://doi.org/10.1016/j.bbrc.2023.04.004>
15. Adeyi, O. E., Somade, O. T., Ajayi, B. O., **James, A. S.**, Adeyi, A. O., Olayemi, Z. M., & Tella, N. B. (2023). Syringic acid demonstrates better anti-apoptotic, anti-inflammatory and antioxidative effects than ascorbic acid via maintenance of the endogenous antioxidants and downregulation of pro-inflammatory and apoptotic markers in DMN-induced hepatotoxicity in rats. *Biochemistry and Biophysics Reports*, 33, 101428. <https://doi.org/10.1016/j.bbrep.2023.101428>
16. **James, A.S.**, Ugbaja, R. N., Ugwor, E. I., Thomas, F.C., Akamo, A. J., Akinloye, D.I., Eteng, O. E., Salami, S. K., Emmanuel, E. A, Ugbaja, V. C, (2022) Lycopene abolishes Palmitate-mediated myocardial inflammation in Female Wistar Rats via modulation of lipid metabolism, NF-κB signalling pathway, and augmenting the antioxidant systems, *Nutrition, Metabolism and Cardiovascular Diseases*, <https://doi.org/10.1016/j.numecd.2022.11.026>.
17. **James, A. S**., Eteng, O. E., Dosumu, O. A., Moses, C. A., Ogbonna, C. U., Adeleye, O. A., ... & Ugbaja, R. N. (2023). Morin Augmented Myocardial eNOS/cGMP/PKG Signaling Pathway and Abated Oxidative and Inflammo-apoptotic Responses in Diethyl Phthalate and Bisphenol-S Co-Exposed Male Albino Rats. *Inflammation,* 46(1), 175-189. <https://doi.org/10.1007/s10753-022-01720-2>
18. Akinloye, D. I., Ugbaja, R. N., Akamo, A. J., Toriola, M. A., Adewale, A. O., Ugwor, E. I., & **James, A. S.** (2022). Effects of alcohol-graded concentrations on total thiols and some thiol utilizing enzymes. *Bayero Journal of Pure and Applied Sciences*, 15(1), 202-209. <https://doi.org/10.4314/bajopas.v15i1.29>
19. David, O. A., Johnson, R. A., Olomola, D. B., **James, A. S.,** & Jolayemi, O. L. (2022). Effect of exogenous melatonin on antioxidant defense system and osmo-regulatory solutes of drought-stressed *Morinda citrifolia.* *Ife Journal of Science*, *24*(2), 295-308. <https://www.ajol.info/index.php/ijs/article/view/233910>
20. Ugwor, E. I., **James, A. S**., Amuzat, A. I., Ezenandu, E. O., Ugbaja, V. C., & Ugbaja, R. N. (2022). Network pharmacology-based elucidation of bioactive compounds in propolis and putative underlying mechanisms against type-2 diabetes mellitus. *Pharmacological Research-Modern Chinese Medicine*, 100183. <https://doi.org/10.1016/j.prmcm.2022.100183>
21. Adeleye, O. O., Dosumu, O. A., Akintunde, J. K., Ugwor, E. I., Abatan, M. O., **James**, **A. S.,** Oyeniran, A. O., Ajetunmobi, A. A., Ilori, O. T., Eromosele C. O. (2022) Behavioural Patterns and Growth Performance of Male Wistar Rats Exposed to Cigarette Smoke: Effects of Curcumin and Hesperidin. *Folia* 66: 19-27. <https://doi.org/10.2478/fv-2022-0023>
22. Eteng, O. E., Moses, C. A., Ogbonna, C. U., Adeleye, A. O., Ugwor, E. I., **James, A. S.**, ... & Eteng, M. (2022). Morin Mitigate Diethyl Phthalate and Bisphenol S–Induced Hematotoxicity in rats’ model by Abrogating Oxidative Stress. *Pharmacological Research-Modern Chinese Medicine*, 100154. <https://doi.org/10.1016/j.prmcm.2022.100154>
23. Ugwor, E. I., Dosumu, O. A., Eteng, O. E., Moses, C. A., Ogbonna, C. U., **James, A. S**., ... & Ugbaja, R. N. (2022). Morin attenuates neurobehavioural deficits, hippocampal oxidative stress, inflammation, and apoptosis in rats co-exposed to bisphenol S and diethyl phthalate. *Brain Research*, 148068. <https://doi.org/10.1016/j.brainres.2022.148068>
24. Ugbaja, R. N., Akinhanmi, T. F., Onunkwor, B. O., Ugwor, E. I., **James, A. S.,** Babalola, A. A., ... & Ugbaja, V. C. (2022). Flavonoid-rich fractions of C. volubile and V. amygdalina alleviate arsenic-induced neurotoxicity by improving neurosignaling and antioxidant capacity in rats' brain. *Brain Disorders*, 100050. <https://doi.org/10.1016/j.dscb.2022.100050>
25. Ugwor, E. I., Ugbaja, R. N., **James, A. S.,** Dosumu, O. A., Thomas, F. C., Ezenandu, E. O., & Graham, R. E. (2022). Inhibition of fat accumulation, lipid dysmetabolism, cardiac inflammation, and improved NO signalling mediate the protective effects of lycopene against cardio-metabolic disorder in obese female rats. *Nutrition Research*. <https://doi.org/10.1016/j.nutres.2022.05.009>
26. Ajisebiola, B. S., Alamu, P. I., **James, A. S.,** & Adeyi, A. O. (2022). *Echis ocellatus* Venom-Induced Reproductive Pathologies in Rat Model; Roles of Oxidative Stress and Pro-Inflammatory Cytokines. *Toxins*, *14*(6), 378. <https://doi.org/10.3390/toxins14060378>
27. Ajisebiola, B. S., Adeniji, O. B., **James, A. S.**, Ajayi, B. O., & Adeyi, A. O. (2022). *Naja nigricollis* venom influenced reproductive and neurological functions via modulation of pro-inflammatory cytokines and oxidative damage in male rats. *Metabolism Open*, 100188. <https://doi.org/10.1016/j.metop.2022.100188>
28. Adeleye, O. O., Abatan, M. O., Dosumu, O. A., **James, A. S.**, Adegoke, A. V., Mamidu, M. O. Sodipe, O. G., Olorunsogbon, B. F., Sanwo, K. A. (2021) Apple cider vinegar administration on carcass characteristics and meat quality of broiler chickens. *Tropical Animal Health and Production*. 53(6):530. <https://doi.org/10.1007/s11250-021-02967-x>
29. Adeleye, O. O., Osho, O. M., Fafiolu, A. O., Dosumu, O. A., Oke, O. E., Abatan, O. M., **James, A. S**., and Adesehinwa, A. O. (2021). Behavioural responses and weight of chickens reared under different artificial light sources. *Folia veterinaria*. 65 (3):1-8. <https://doi.org/10.2478/fv-2021-0021>
30. Ugbaja, R. N., **James, A. S.,** Ugwor, E. I., Akamo, A. J., Thomas, F. C., & Kosoko, A. M. (2021). Lycopene suppresses palmitic acid-induced brain oxidative stress, hyperactivity of some neuro-signalling enzymes, and inflammation in female Wistar rat. *Scientific reports*, *11*(1), 1-13. <https://doi.org/10.1038/s41598-021-94518-5>
31. Ugbaja, R. N., Ugwor, E. I., Dosumu, O. A., **James, A. S.,** Thomas, F. C., Ezenandu, E. O., & Kosoko, A. M. (2021). Lycopene abrogates obesity-provoked hyperactivity of neurosignalling enzymes, oxidative stress, and hypothalamic inflammation in female Wistar rats. *Neurochemistry International*, *149*, 105125. <https://doi.org/10.1016/j.neuint.2021.105125>
32. Ugwor, E. I., **James, A. S.**, Akamo, A. J., Akinloye, D. I., Ezenandu, E. O., Emmanuel, E. A., and Ugbaja, R. N. (2021) Lycopene alleviates western diet-induced elevations in anthropometrical indices of obesity, adipose lipids, and other nutritional parameters. *International Journal of Vitamin and Nutritional Research.* 30:1-9. <https://doi.org/10.1024/0300-9831/a000719>
33. Ugbaja, R. N., Ogungbemi, K., **James, A. S.,** Peter Folorunsho, A., Abolade, S. O., Ajamikoko, S. O., Atayese, E. O. and Adedeji, O. V. (2021). Chitosan from Crabs (Scylla serrata) Represses HyperlipidemiaInduced Hepato-Renal Dysfunctions in Rats: Modulation of CD43 and p53 Expression. *Pathophysiology 28*(2):224-237. <https://doi.org/10.3390/pathophysiology28020015>
34. Ugbaja, R.N., Fatokun, T.P., Akinloye, D.I., **James A. S.,** Onabanjo O. O., and Akinloye O. A. (2021). Propolis ethanol extract abrogates hyperglycemia, lipotoxicity, and lowered hepatic poly (ADP-ribose) polymerase protein level in male albino rats. *Journal of Diabetes Metabolic Disorders*. 20 (1): 683- 696. <https://doi.org/10.1007/s40200-021-00800-8>
35. Akinloye, D. I., Ugbaja, R. N., Dosumu, O. A., Akamo, A. J., **James, A. S.**, and Adeyemo, A. B. (2021). Restorative Effects of *Aloe Vera* Gel on Alcohol Induced Hepato-Nephrocellular Dysfunction. *Folia, 65*(1), 1-8. <https://doi.org/10.2478/fv-2021-0001>
36. Adeyi, A. O., Adeyemi, S. O., Effiong, E. O. P., Ajisebiola, B. S., Adeyi, O. E., and **James, A. S**. (2021). *Moringa oleifera* Extract Extenuates *Echis ocellatus* Venom-Induced Toxicities, Histopathological Impairments, and Inflammation via Enhancement of Nrf2 Expression in Rats**.** *Pathophysiology,* 28(1), 98-115. <https://doi.org/10.3390/pathophysiology28010009>
37. Akinloye, D. I., Ugbaja, R. N., Dosumu, O. A., Rahman, S. A., Ugwor, E. I., **James, A. S.**, ... and Bada, M. B. (2021). A time-course study on the dose-response relationship between alcohol exposure and its effects on lipid profile and biomarkers of tissue damage. *Biochemistry and Biophysics Reports*, 26, 100927. <https://doi.org/10.1016/j.bbrep.2021.100927>
38. Adeyi, A. O., Awosanya, S. A., Adeyi, O. E., **James, A. S**., and Adenipekun, C. O. (2021) *Ganoderma lucidum* ethanol extract abrogates metabolic syndrome in rats: in vivo evaluation of hypoglycemic, hypolipidemic, hypotensive and antioxidant properties. *Obesity Medicine,* 22: 100320. <https://doi.org/10.1016/j.obmed.2021.100320>
39. Ugbaja, R. N., Akinhanmi, T. F., **James, A. S**., Ugwor, E. I., Babalola, A. A., Ezenandu, E. O., ... and Emmanuel, E. A. (2021). Flavonoid-rich fractions from *Clerodendrum volubile* and *Vernonia amygdalina* extenuate arsenic-invoked hepato-renal toxicity via augmentation of the antioxidant system in rats. *Clinical Nutrition Open Science*, 35, 12-25. <https://doi.org/10.1016/j.nutos.2020.12.003>
40. Adeyi, A.O., Ajesebiola, B.S., Adeyi, O.E., Adekunle, O., Akande, O.B., **James, A.S.,** Yusuf, P.O. and Idowu, B. A. (2021) *Moringa* oleifera leaf fractions attenuated *Naje haje* venom-induced cellular dysfunctions via modulation of Nrf2 and inflammatory signalling pathways in rats. *Biochemistry and Biophysics Reports*, 25: 100890. <https://doi.org/10.1016/j.bbrep.2020.100890>
41. Ugbaja, R. N., Akinloye, D. I., **James, A. S**., Ugwor, E. I., Kareem, S. E., David, G., ... & Oyebade, O. E. (2020). Crab derived dietary chitosan mollifies hyperlipidemia-induced oxidative stress and histopathological Derangements in male albino rats. *Obesity* *Medicine*, 100300. <https://doi.org/10.1016/j.obmed.2020.100300>
42. Ugbaja, R. N., Enilolobo, M. A., **James, A. S.,** Akinhanmi, T. F., Akamo, A. J., Babayemi, D. O., & Ademuyiwa, O. (2020). Bioaccumulation of heavy metals, lipid profiles, and antioxidant status of snails (*Achatina achatina*) around cement factory vicinities. *Toxicology and Industrial Health*, *36*(11), 863-875. <https://doi.org/10.1177/0748233720954995>
43. Somade, O. T., Ajayi, B. O., Adeyi, O. E., Adeshina, A. A., **James, A. S.**, & Ayodele, P. F. (2020). Ethylene glycol monomethyl ether-induced testicular oxidative stress and time-dependent up-regulation of apoptotic, pro-inflammatory, and oncogenic markers in rats. *Metabolism Open*, *7*, 100051. <https://doi.org/10.1016/j.metop.2020.100051>
44. Somade, O. T., Ajayi, B. O., Tajudeen, N. O., Atunlute, E. M., **James, A. S**., & Kehinde, S. A. (2019). Camphor elicits up-regulation of hepatic and pulmonary pro-inflammatory cytokines and chemokines via activation of NF-kB in rats. *Pathophysiology*, *26*(3-4), 305-313. <https://doi.org/10.1016/j.pathophys.2019.07.005>
* **Book Chapters**
1. **James, A. S.,** Ugwor, E. I., Adebiyi, V. A., Ezenandu, O. E., and Ugbaja, V. C. (2021). Aflatoxin and Disruption of Energy Metabolism. IntechOpen, [https://doi.org10.5772/intechopen.97042](https://doi.org10.5772/intechopen.97042Available)
2. Ugbaja, R. N., Ugwor, E. I., **James, A. S.,** Ugbaja, V. C., & Ezenandu, E. O. (2024). Neuroprotection induced by lycopene. In *Natural Molecules in Neuroprotection and Neurotoxicity* (pp. 1639-1667). Academic Press. <https://doi.org/10.1016/B978-0-443-23763-8.00045-2>
* **Publications in Conference Proceedings**
1. **James, A. S**., Chaudhari, D. S., Jain, S., Goltz, D., Tangudu, D., Yadav, H., & Consortium, M. (2024). Specific Microbiome Signature Dynamics Could Predict Aging Continuum and Cognitive Impairment in Older Adults. Physiology, 39(S1), 1991. <https://journals.physiology.org/doi/abs/10.1152/physiol.2024.39.S1.1991>
2. Wang, H., Slotabec, L., Didik, S., **James, A.S,** & Li, J. (2023). A Small Molecule Macrophage Migration Inhibitory Factor Agonist Ameliorates Age-Related Myocardial Intolerance to Ischemia-Reperfusion Insults via Metabolic Regulation. *Circulation,* 148(Suppl\_1), A13208-A13208. <https://doi.org/10.1161/circ.148.suppl_1.13208>
3. Amuzat, A. I., Onunkwor, O. B., Onabanjo, O. O., Ugwor, E. I., **James, A. S.,** Yomi, B. A. and Ugbaja, R. N. 2019. Phytochemical screening and non-enzymatic antioxidant assessment if propolis extract against oxidative damage associated with diabetes in albino rats. Proceedings of 2nd Biennial Conference, College of Biosciences, Federal University of Agriculture, Abeokuta, Nigeria pp. 28-38. Published by COLBIOS, FUNAAB.
4. Olawunmi, M. O., Ugbaja, R. N., Akinloye, O. A., Onabanjo, O. O., Ugwor, E. I. and **James, A. S.** 2019. Effects of propolis extract on systemic inflammatory gene and hepatorenal markers in streptozotocin-induced diabetic rats Proceedings of 2nd Biennial Conference, College of Biosciences, Federal University of Agriculture, Abeokuta, Nigeria pp. 54-65. Published by COLBIOS, FUNAAB.
5. Akamo, A. J., Ugbaja, R. N., Akinloye, D. I., Eteng, O. E., Somade O. T**., James, A. S.,** Ugwor, E. I., Salaudeen, E. H., Bakare, S. O., Olamiju, S. A., Adedeji, A. A., Hezekiah, B. E., Odulesi, O. O. and Gbadebo, H. M. 2019. Phytochemical screening and non-enzymatic antioxidant assessment if propolis extract against oxidative damage associated with diabetes in albino rats. Proceedings of 2nd Biennial Conference, College of Biosciences, Federal University of Agriculture, Abeokuta, Nigeria. pp. 71-78. Published by COLBIOS, FUNAAB.
6. Akinloye, D. I.,Sojinu, O. S., **James, A.S.,** Ugwor, E. I., Adeosun, T. A., Oluseye R. J., Eruola, O. A. and Ugbaja, R. N. (2021). *Ficus exasperata* N-Hexane-Ethyl Acetate Extract Protects against CCl4 - Induced Antioxidant Alteration in Female Albino Rats. Proceeding of the first Augustine University Research Fair and Conference

# Conferences Attended

1. 2nd MiaGB Consortium Annual Meeting Organized by the USF Centre for Microbiome Research, University of South Florida, Tampa FL, USA (26th July 29, 2024): *Oral presentation*: [Specific Microbiome Signature Dynamics Could Predict Aging Continuum and Cognitive Impairment in Older Adults](https://scholar.google.com/citations?view_op=view_citation&hl=en&user=9L2m5_kAAAAJ&sortby=pubdate&citation_for_view=9L2m5_kAAAAJ:bEWYMUwI8FkC).
2. American Physiological Society (APS) Summit 2024, Long Beach California, USA (4th April – 7th April 2024); *Poster Presentation*: Specific Microbiome Signatures Dynamics Could Predict Aging Continuum and Cognitive Impairment in Older Adults
3. Graduate Research Symposium, 2024: Organized by the University of South Florida, Office of Graduate studies Tampa FL, USA (03/01/2024). *Invited oral and poster presentation Presenters*: Linking gut virome signatures to cognitive health in aging.
4. USF Health Research Fair Day, 2024: Organized by the University of South Florida, Tampa FL, USA (03/01/2024). *Poster Presenters*: Linking gut virome signatures to cognitive health in aging.
5. USF Health Research Fair Day, 2023: Organized by the University of South Florida, Tampa FL, USA (03/03/2023). The 13th Annual Joseph Krzanowski: *PhD Invited Oral Presenters*: Targeting on SESN2/NRF2 signaling to rescue cardiac dysfunction during high-fat diet-induced obesity.

1. TheFuture Physiology (*Virtual*), Organized by: The Physiological Society (UK); Monday 12 April- Wednesday 14, 2021. E-poster Presentation**:** Lycopene Suppresses Palmitic acid-induced Neuro-oxidoinflammation via Attenuation of Oxidative stress and NF-κB-p65 activation in Female Rats’ (Poster ID: PC6).
2. First Augustine University of Research Fair and Conference, Augustine University, Ilara - Epe, Lagos State, Nigeria; 23rd – 24th November 2021. ***Best participant awards and* prize winner**
3. A four-day Hands-on Workshop of Computer- Aided Drug Discovery and Bioinformatics, Chrisland University, Abeokuta, Ogun State, Nigeria. ***Best participant award***
4. Second Biennial Conference, College of Biosciences, Federal University of Agriculture, Abeokuta. "*Sustaining Biosciences for Human and Agricultural Development"* (2019). Posters presented: Phytochemical screening and non-enzymatic antioxidant assessment if propolis extract against oxidative damage associated with diabetes in albino rats.
5. Bioscience annual conference, College of Biosciences, Federal University of Agriculture, Abeokuta. Nigeria "*Harnessing Bioscience for Economic Development"* (2017). Posters presented: Toxicological evaluation of different polyherbal formulations consumed in Nigeria.

**Scholarly review activities**

1. King Saud Journal (Published by Elsevier)
2. Comparative Pharmacology Journal (Published by Elsevier)
3. Scientific Reports (Nature Journal)
4. Frontiers in Pharmacology