

CURRICULUM VITAE

1. Name:	Jaafaru Sani Mohammed
2. Date of Birth:	1 st January 1980
3. Local Government Area:	Zaria
4. State of Origin:	Kaduna
5. Nationality:	Nigeria
6. Marital Status:	Married
7. Gender:	Male
8. Religion:	Islam
9. Language Spoken:	English, Arabic and Hausa
10. Current Contact Address:	Department of Biochemistry, Faculty of Science KASU, Tafawa Balewa Way Kaduna-Nigeria.
11. Permanent Home Address:	No. 155 Durumin Jamo Kusfa, Zaria City, Kaduna-Nigeria.
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14. INSTITUTIONS ATTENDED AND QUALIFICATIONS WITH DATES:

	Institutions	Certificates Obtained	Date
a.	University Putra Malaysia (UPM)	Ph.D. Medical Biotechnology	2019
b.	UCSI University, Malaysia	MSc. Biotechnology	2013
c.	Ahmadu Bello University, Zaria	BSc. (Hons) Biochemistry	2008
d.	Taimako Computer College, Zaria	Diploma in DPP	2009
e.	Nuhu Bamally Polytechnic, Zaria	IJMB Certificates	2004
f.	Alhudahuda College, Zaria	SSCE (High School)	2002
g.	Kaura Islamic Nursery & Pri. School	Primary School Leaving Cert.	1996

15. ADDITIONAL QUALIFICATION/WORKSHOPS ATTENDED:

- (i) A 4-days Hands-on workshop on *Drosophila melanogaster* in bioscience research organised by Bingham University, Karu, Nasarawa State, Nigeria. 3rd – 5th March, 2020.
- (ii) A 5-days workshop on “Introduction to molecular biology/biotechnology for Biology Teachers in Kaduna State Public Schools” (Resource Person), Organised by the Department of biochemistry, Kaduna State University, December, 2019.
- (iii) Science Communication and Journalism in Nigeria, October 2019, Organised by African Science Literacy Network and Sci-hub Nigeria. Rock View Hotel, Abuja Nigeria.

- (iv) Two days' workshop on Structural Equation Modelling 2019 (as participant). Organised by Universiti Putra Malaysia International Students Association (UPMISA), UPM, Serdang, Selangor Malaysia.
- (v) Five days' workshop on application of GeXP in genetics analysis, Molemed Seminar and workshop series 2019, (as participant). Organised by Laboratory of Molecular Biomedicine, Institutue of Bioscience, Universiti Putra Malaysia.
- (vi) Five days' workshop on Advance Digital Application for Tertiary Institution (SPSS package) 2019 (participant). Organised by ICT directorate, Kaduna State University, Kaduna Nigeria.
- (vii) Two days' workshop on SPSS and Mendaley 2018 (as organising committee member and participant). Organised by Nigerian Community in UPM, Universiti Putra Malaysia.
- (viii) Two days' workshop on Systematic Review and Meta-analysis as participant, 2018. Organised by Universiti Putra Malaysia International Students Association (UPMISA), UPM, Serdang, Selangor, Malaysia.
- (ix) Two days' workshop on Flow Cytometry, Molemed Seminar and workshop series 2017, (as facilitator). Organised by Laboratory of Molecular Biomedicine, Institutue of Bioscience, Universiti Putra Malaysia.
- (x) Three days' capacity development workshop on Communication Development 2017 (as participant). Organised by UNICEF Malaysia at Faculty of modern languages and communications, Uniersiti Putra Malaysia.
- (xi) Three days' workshop on Design of Experiment (D.O.E) as participant, 2017. Organised by College o Graduate Studies, The National Energy University Malaysia.
- (xii) Two days' workshop on Research Success through Excellent Proposal and Systematic Monitoring 2016 (as participant). Organised by Defence University of Malaysia.

16. LOCAL AND INTERNATIONAL SEMINARS AND SYMPOSIUM ATTENDED:

- (i) Hands-on workshop on *Drosophila melanogaster* in bioscience research organised by Bingham University, Karu, Nasarawa State, Nigeria. 3rd – 5th March, 2020.
- (ii) A 5-days workshop on “Introduction to molecular biology/biotechnology for Biology Teachers in Kaduna State Public Schools” (Resource Person), Organised by the Department of biochemistry, Kaduna State University, December, 2019.
- (iii) Science Communication and Journalism in Nigeria, October 2019, Organised by African Science Literacy Network and Sci-hub Nigeria. Rock View Hotel, Abuja Nigeria.

- (iv) Two days' workshop on Structural Equation Modelling 2019 (as participant). Organised by Universiti Putra Malaysia International Students Association (UPMISA), UPM, Serdang, Selangor Malaysia.
- (v) Five days' workshop on application of GeXP in genetics analysis, Molemed Seminar and workshop series 2019, (as participant). Organised by Laboratory of Molecular Biomedicine, Institutue of Bioscience, Universiti Putra Malaysia.
- (vi) Five days' workshop on Advance Digital Application for Tertiary Institution (SPSS package) 2019 (participant). Organised by ICT directorate, Kaduna State University, Kaduna Nigeria.
- (vii) Two days' workshop on SPSS and Mendaley 2018 (as organising committee member and participant). Organised by Nigerian Community in UPM, Universiti Putra Malaysia.
- (viii) Two days' workshop on Systematic Review and Meta-analysis as participant, 2018. Organised by Universiti Putra Malaysia International Students Association (UPMISA), UPM, Serdang, Selangor, Malaysia.
- (ix) Two days' workshop on Flow Cytometry, Molemed Seminar and workshop series 2017, (as facilitator). Organised by Laboratory of Molecular Biomedicine, Institutue of Bioscience, Universiti Putra Malaysia.
- (x) Three days' capacity development workshop on Communication Development 2017 (as participant). Organised by UNICEF Malaysia at Faculty of modern languages and communications, Uniersiti Putra Malaysia.
- (xi) Three days' workshop on Design of Experiment (D.O.E) as participant, 2017. Organised by College o Graduate Studies, The National Energy University Malaysia.
- (xii) Two days' workshop on Research Success through Excellent Proposal and Systematic Monitoring 2016 (as participant). Organised by Defence University of Malaysia.
- (xiii) A seminar on Systematic Review and Meta-analysis: tool for faster growth in academia (Resource person), 2019. Organised by the Department of Biochemistry, Kaduna State University (KASU) through Departmental Seminar Series.
- (xiv) Towards excellent in Genetics, 2019. A seminar organised by Malaysian Genetic Society, Universiti Putra Malaysia.
- (xv) Seminar on Neuroscience and Neurogenetics 2018. Organised by Neuroscience Cluster and Malaysian Genetic Society, UPM Serdang, Malaysia.
- (xvi) Seminar on Basic Statistics, SPSS and Data Analysis, 2018. Organised by Universiti Putra Malaysia International Students Association (UPMISA), UPM, Serdang, Selangor Malaysia.

(xvii) Putra Cancer Research Symposium 2017. Organised by Institute of Bioscience, Universiti Putra Malaysia.

(xviii) Seminar on Embracing Biosafety, Biosecurity and Bioethics in Research, 2017. Organised by Faculty of Biotechnology and Molecular Sciences, Universiti Putra Malaysia.

(xix) A seminar on Innovations in Genomics and Proteomics, 2016. Organised by Institute of Biosciences, Universiti Putra Malaysia.

17. WORKING EXPERIENCE:

Place	Position	Date
(i) Dept. of Biochemistry, Kaduna State University	SL	2020-Date
(ii) Dept. of Biochemistry, Kaduna State University	Lecturer I,	2017-2020
(iii) Dept. of Biochemistry, Kaduna State University	Lecturer II,	2013-2017
(iv) Dept. of Biochemistry, Kaduna State University	Asst. Lecturer	2011-2013
(v) National Boundary Commission, Abuja	NYSC	2009-2010
(vi) 44 Nigerian Army Reference Hospital, Kaduna	Lab Asst. (SIWES)	2006

18. RESEARCH EXPERIENCE WITH DATES:

Research	Date
(i) The use of Clausenidin Crystals from <i>Clausena excavate Burm</i> for the treatment of Cancer. An NRF project (Co-researcher).	2020-Date
(ii) Studying Anti-aging and Neuroprotective Activities of <i>Terminalia catappa</i> (Umbrella Fruits) on <i>Drosophila melanogaster</i> (fruit flies) Neurodegenerative Diseases Model. An IBR Project (Principal Investigator)	2020-Date
(iii) Studying Anti-aging and Neuroprotective Activities of <i>Adansonia digitata</i> (Baobab Fruits) on <i>Drosophila melanogaster</i> (fruit flies) Neurodegenerative Diseases Model. An IBR Project (Co-researcher).	2020-Date
(iv) Ph.D. Research Project on Elucidating Neuroprotective Pathways of Glucomoringin Isothiocyanate Isolated from <i>Moringa oleifera</i> Lam Seeds on Differentiated (Sh-Sy5y) Cells.	2019
(v) The Potential use of compounds and extracts of <i>Moringa oleifera</i> Lam for The treatment of Hepatocellular carcinoma.	2017
(vi) MSc. Research Project on Genotyping Obesity Candidate Genes from Three Major Malaysian Ethnic Groups.	2013

19. ADMINISTRATIVE DUTIES WITH DATES:

a	University Linkages & Collaboration Officer (KASU)	2020-Date
b	Tertiary Education Trust Fund Desk Officer	2020-Date
c	Member, University 5 men committee on Covid-19 test strip Development.	2020-Date
d	Secretary, Academic Staff Training & Development Committee	2020-Date
e	Secretary, Tetfund Intervention Lines Reconciliation Committee	2020
f	Secretary, Task Force Committee on Presidential NEEDS Assessment	2020
g	Departmental Registration Officer and 100 level Coordinator	2019-2020
h	Secretary, Departmental Curriculum Rev Committee, Biochemistry Dept.	2019
i	Member, Faculty. Examination Validation Committee for Chemistry. Dept.	2019
j	General Secretary, UPM International Students Assoc. (UPMISA)	2018-2019
k	Faculty Director of Sport, Faculty of Science, KASU	2014-2016
l	Departmental Registration Officer and 100 Level Coordinator	2013-2016
m	Secretary, Dept. Committee on welfare & Biosave, Biochemistry Dept.	2013-2016

20. POSITIONS HELD WITH DATES:

Position	Date
a Head, Linkages & Collaboration Unit	2020-Date
b Secretary, University AST&D Committee	2020-Date
c Re-appointed Registration Officer and 100 level Coordinator.	2019-2021
d Vice Chairman, Departmental Welfare Committee.	2019-Date
e Director of Sport, Faculty of Science, KASU	2014-2016
f Registration Officer and 100 Level Coordinator.	2013-2016
g Secretary, Dept. Committee on welfare & Biosave, Biochemistry Dept.	2013-2016

21. MEMBERSHIP OF PROFESSIONAL BODIES AND FELLOWSHIPS:

- (i)** Nigerian Society of Biochemistry and Molecular Biology (NSBMB)
- (ii)** Biotechnology Society of Nigeria (BSN)
- (iii)** International Society for Neurochemistry (ISN)
- (iv)** Malaysia Society of Biochemistry and Molecular Biology (MSBMB)
- (v)** Malaysian Society for Molecular Biology and Biotechnology (MSMBB)
- (vi)** Malaysian Genetic Society (MGS)
- (vii)** Fellow, African Science Literacy Network (ASLN)

22. INTERNATIONAL CONFERENCES ATTENDED AND PRESENTED:

- (i)** Mohammed Sani Jaafaru, Norshariza Nordin, Ahmad Faizal Abdull Razis. Glucomoringin-isothiocyanate (GMG-ITC) Preserved the Integrity of Cellular Structures in an *In Vitro* Model of Neurodegeneration. ICADD 2018 Universiti Kebangsaan Malaysia, Kuala Lumpur, Malaysia.
- (ii)** Peter M Waziri, Rasedee Abdullah, Nur Kartinee Kassim and Jaafaru Sani Mohammed. Clausenidin suppresses the production of VEGF and inhibits angiogenesis of HepG2 cells. International Conference on Drug Discovery and Translational Medicine 2018 (ICDDTM '18). Malaysian Association for Cancer Research, Malaysia.

- (iii) Hamidu Ahmed, Mokrish Ajat, Rozaihan Mansor, Intan Shameha Abdul Razak, Abubakar Danmaigoro, Alhaji Zubair Jaji, **Jaafaru Sani Mohammed** and Md Zuki Abu Bakar. Apoptotic evaluation and cytotoxic effects of Doxorubicin conjugated CaCO3-nanoparticles on breast cancer cell-line. *Frontiers in Pharmacology*.
- (iv) **Mohammed Sani Jaafaru**, Ahmad Faizal Abdull Razis, Norshariza Nordin, Khozirah Shaari, Rozita Rosli, Enas Eliaser and Nurul Ashikin Abd Karim. Mitigation of Neurodegeneration in H₂O₂-Induced Cell Damage by Pure Moringin Isolated from *Moringa oleifera* Seeds. *International Malaysian French Scientific Conference 2017*. University of Malaya, Kuala Lumpur, Malaysia.

23. LOCAL CONFERENCES ATTENDED AND PRESENTED:

- (i) **Jaafaru Sani Mohammed**, Zainab Mohammed Kasim, Ibrahim Jibril, Hauwau Yakubu Bako Ameliorative Effect of Phenolic Rich-Extract of *Terminalia catappa* ripped Fruits on CuSO₄-induced Neurotoxicity in *Drosophila melanogaster* Model. NSBMB Conference, UDUS 2021.
- (ii) Ashafa Musa Hussaini Ashafa Musa Hussaini, **Jaafaru Sani Mohammed**, Jibril Ibrahim and Zainab Kasim Mohammed. Neuroprotective Role of Ripped Fruit Aqueous Extract of *Terminalia catappa* on CuSO₄-Induced Neurotoxicity in *Drosophila melanogaster* Model. NSBMB Conference, UDUS Sokoto
- (iii) **Mohammed Sani Jaafaru**, Hauwa'u Yakubu Bakko and Ahmad Faizal Adull Razis. Abrogation of Apoptosis by Glucomoringin-Isothiocyanate on H₂O₂-Induced cytotoxic differentiated SH-SY5Y: Prospective Involvement of Mitochondrial Signalling Pathway. NSBMB Conference, UMYU Katsina 2019.
- (iv) Halliru Umar Farouk, **Jaafaru Sani Mohammed**, Baraka Abdullahi, Hajara aminu and Auwal Adamu. Antidepressant Effect of Aqueous Extract of *Mucuna pruriens* Seeds on Some Serum and Brain Neurotransmitter Levels Depressed rats. Conference, Katsina 2019.
- (v) Abdullahi Baraka, Halliru Umar faruk, Hajara Aminu and **Mohammed Sani Jaafaru**. In vitro Membrane Stability Effect of *Sterculia setigera* Leaf Methanolic Extract and Fractions on Human Sickle Red Blood Cells. Conference, Katsina 2019.
- (vi) Hauwa'u Y. B and **Jaafaru S. M.**. Comparative Analysis on Tenderizing Ability of Peel and Leave Papain Crude extract from *Carica papaya* Linnaeus Plant. 40th Nigerian Institute of Food Science and Technology Annual conference and General Meeting.

24. PUBLICATIONS:

a. PhD. Dissertation

(i) Elucidating Neuroprotective Pathways of Glucomoringin Isothiocyanate Isolated from *Moringa oleifera* Lam Seeds on Differentiated (Sh-Sy5y) Cells.

b. MSc. Thesis

(i) MSc. Research Project on Genotyping Obesity Candidate Genes from Three Major Malaysian Ethnic Groups.

c. Peer Reviewed Book Chapters

(i) **Jaafaru, M. S.,** & Razis, A. F. A. (2022). Sulfur compounds. In *Bioactive Food Components Activity in Mechanistic Approach* (pp. 211-222). Academic Press.

(ii) **Jaafaru Mohammed Sani.** (2022). Basics on Tissue Engineering & Transplantation. In *TEXTBOOK OF BASIC MEDICAL SCIENCES, THIRD EDITION. VOLUME ONE* (pp.358-366). Academic Press.

d. Refereed Articles in Academic Journals

(i) Muhammed Y, Nadabo AY, Pius M, Sani B, Usman J, Garba NA, **Sani JM**, Olayanju BO, Bala SZ, Abdullahi MG, Sambo M. SARS-CoV-2 spike protein and RNA dependent RNA polymerase as targets for drug and vaccine development: A review. Biosafety and health. 2021 Oct 25;3(05):249-63. **DOI:10.1016/j.bsheal.2021.07.003**

(ii) Javed Iqbal M, Quispe C, Javed Z, Sadia H, Qadri QR, Raza S, Salehi B, Cruz-Martins N, Abdulwanis Mohamed Z, **Sani Jaafaru M**, Abdull Razis AF. Nanotechnology-based strategies for berberine delivery system in cancer treatment: Pulling strings to keep berberine in power. Frontiers in Molecular Biosciences. 2021:481. **DOI:10.3389/fmolb.2020.634494**

(iii) Sharif A. Abdullahi, Hassan Yahaya, **Ja'afaru S. Mohammed.** Toxoplasmosis among Pregnant Women in Africa: A Systematic Review and Meta-Analysis. Annals of Basic and Medical Sciences. Dec. 2021; 2(2): 111-120. **doi.org/10.51658/ABMS.202122.4**

(iv) Chandan Sarkar, Cristina Quispe, Sarmin Jamaddar, Rajib Hossain, Pranta Ray, Milon Mondal, Zeinab Abdulwanis Mohamed, **Mohammed Sani Jaafaru**, Bahare Salehi, Muhammad Torequl Islam, Ahmad Faizal Abdull Razis, Miquel Martorell, Edgar Pastene-Navarrete, Javad Sharifi-Rad. Therapeutic promises of ginkgolide A: A literature-based review, *Biomedicine & Pharmacotherapy*, 132 (2020) 110908. **DOI: 10.1016/j.biopha.2020.110908**

(v) Zeinab Abdulwanis Mohamed, Enas Mohamed Eliaser, **Mohammed Sani Jaafaru**, Norshariza Nordin, Costas Ioannides, and Ahmad Faizal Abdull Razis. Neuroprotective Effects of 7-Geranyloxycinnamic Acid from Melicope lunu ankenda Leaves. *Molecules*, 25 (2020) 3724. **DOI:10.3390/molecules25163724**.

(vi) Hauwa'u Yakubu Bako, Halliru Umar Farouk, Hafsat Rufa'i, Sumaiyah Shehu, Amina Husnah Balarabe and **Jaafaru Sani Mohammed.** The Effect of Methanolic Crude Extract of *Ocimum gratissimum* Leaves on Insulin Resistance and Glut-4 gene Expression

in Monosodium Glutamate Induced Obese Rats. *Science World Journal*. 2020; 15(4): 48 – 53.

(vii) Richard Auta, Peter Waziri, **Jaafaru Mohammed Sani**, Rabiat Idrees Abubakar, Samson Wayah, Ibrahim Malami, Bitrus Achi and Yusuf Alhassan. The Chemopreventive Properties of Isothiocyanate Isolated from the Seeds of *Moringa oleifera* lam. *Science World Journal*. 2020; 15(4): 83 – 86.

(viii) **Jaafaru Sani Mohammed**, Norshariza Nordin, Rozita Rosli, Khozirah Shaari, Hauwa'u Yakubu Bako, Noramaliza Mohd Noor, and Ahmad Faizal Abdull Razis. Prospective role of mitochondrial apoptotic pathway in mediating GMG-ITC to reduce cytotoxicity in H₂O₂-Induced oxidative stress in Differentiated SH-SY5Y Cells. *Biomedicine & Pharmacotherapy*, 119 (2019) 109445. **DOI: 10.1016/j.biopha.2019.109445**.

(ix) **Jaafaru Sani Mohammed**, Norshariza Nordin, Rozita Rosli, Khozirah Shaari, Hauwa'u Yakubu Bako, Norazalina Saad, Noramaliza Mohd Noor, and Ahmad Faizal Abdull Razis. Neuroprotective Effects of Glucomoringin-Isothiocyanate Against H₂O₂-Induced Cytotoxicity in Neuroblastoma (SH-SY5Y) Cells. *Neurotoxicology*, 75 (2019) 89–104. **DOI: 10.1016/j.neuro.2019.09.008**.

(x) **Jaafaru, M.S.**, Abd Karim, N.A., Mohamed Eliaser, E., Maitalata Waziri, P., Ahmed, H., Mustapha Barau, M., Kong, L. and Abdull Razis, A.F., 2018. Nontoxic glucomoringin-isothiocyanate (GMG-ITC) rich soluble extract induces apoptosis and inhibits proliferation of human prostate adenocarcinoma cells (PC-3). *Nutrients*, 10(9), p.1174. no. 9 (2018): 1174. **DOI: 10.3390/nu10091174**.

(xi) **Jaafaru, M.S.**, Abd Karim, N.A., Enas, M.E., Rollin, P., Mazzon, E. and Abdull Razis, A.F., 2018. Protective effect of glucosinolates hydrolytic products in neurodegenerative diseases (NDDs). *Nutrients*, 10(5), p.580. **DOI: 10.3390/nu10050580**.

(xii) **Jaafaru Sani Mohammed**, Norshariza Nordin, Khozirah Shaari, Rozita Rosli, Ahmad Faizal Abdull Razis. Isothiocyanate from *Moringa oleifera* seeds mitigates hydrogen peroxide-induced cytotoxicity and preserved morphological features of human neuronal cells. *PLoS ONE*, 13(5): e0196403. **DOI: 10.1371/journal.pone.0196403**.

(xiii) Peter M Waziri, Rasedee Abdulla, Rosita Rosli, Abdul Rahman Omar, Ahmad Bustamam Abdul, Nur Kartinee Kassim, Ibrahim Malam, Imaobong C Etti, **Ja'afaru M Sani**, Mohd Azmi Mohd Lila, Jesse Faez Firdaus Abdulllah. Clausenidin Induces Caspase 8-Dependent Apoptosis and Suppresses Production of VEGF in Liver Cancer Cells. April 2018, *APJCR*. **DOI: 10.22034/APJCP.2018.19.4.917**.

(xiv) **Jaafaru Sani Mohammed**, Ibrahim Deborah Kyomson, Hauwa'u Yakubu Bako, Peter Maitalata Waziri, Yahaya Yakubu, Mohammed Barau Mustapha and Joseph Samson Gyutorwa. In Vivo Ameliorative Effect of Methanolic Extract of *Boswellia Dalzielii* Hutch (MEBDH) Stem Bark on Triton X-100 Induced Hyperlipidaemia. *Science World Journal*, Vol 12(4) 2017.

- (xv) Hauwa'u Yakubu Bako, **Ja'afaru Sani Mohammad**, Peter Maitalata Waziri, Timothy Bulus, Mohammad Yalwa Gwarzo and Maimuna M. Zubairu. Lipid Profile of Alloxan-Induced Diabetic Wistar Rats Treated with Methanolic Extract of *Adansonia Digitata* Fruit Pulp. *Science World Journal*. 2014; 9(2): 19 – 24.
- (xvi) Peter M Waziri, Festo J Massawe, Samson B Wayah and **Jaafar M Sani**. Ribosomal DNA Variation in Landraces of Bambara Groundnut. *African Journal of Biotechnology*. Aug 2013; 12(35): 5395-5403.

25. ACADEMIC COMMUNITY LINKS

- (i) **Google Scholar:** <https://scholar.google.com/citations?user=9zSuWpwAAAAJ&hl=en>
- (ii) **Researchgate:** https://www.researchgate.net/profile/Jaafaru_Mohammed
- (iii) **Semantic Scholar:** [Mohammed Sani Jaafaru | Semantic Scholar](https://www.semanticscholar.org/2020/03/03/mohammed-sani-jaafaru)
- (iv) **ORCID Account:** <http://orcid.org/0000-0002-6635-4931>

26. PATENTS REGISTERED:

- (i) **TITLE:** A Method of Isolating Glucomoringin from *Moringa oleifera*
APPLICATION NUMBER: PI 2018703283
DATE: 14/09/2018
AGENCY: Trademark 2U intellectual property
AGENT NAME: Yip Jiun Hann

27. SCHOLARSHIPS AWARDS & AWARDS OF EXCELLENCE:

- (i) TETFund Scholarship for PhD. Medical Biotechnology, 2015.
- (ii) TETFund Scholarship for MSc. Biotechnology, 2012
- (iii) Fellow, African Science Literacy Network (ASLN)
- (iv) Award of graduation on time (GOT) by School of Graduate Studies, Universiti Putra Malaysia, 2019.
- (v) Best Oral Presentation at International Conference on Antioxidants and Degenerative Diseases 2018. Organised by Anti-ageing and degenerative diseases research team, Universiti Kebangsaan Malaysia, Kuala Lumpur, Malaysia.
- (vi) Best level coordinator in the department of Biochemistry, Kaduna State University in 2015/2016 session.

28. Undergraduate Courses Taught

- a. First Semester Theory/Practical Courses**
 - (i) BCH 201: Chemistry of amino acid and protein (2 CU)
 - (ii) BCH 203: General Biochemistry Laboratory I (1 CU)
 - (iii) BCH 205: Chemistry of Carbohydrates, Lipids, and Nucleic acids (2 CU)
 - (iv) BCH 207: Structure and Functions of Major Cell Components (2 CU)
 - (v) BCH 241: Chemistry of macro molecules (3 CU)
 - (vi) BCH 301: Enzymology (2 CU)
 - (vii) BCH 305: Metabolism of Carbohydrates (2 CU)
 - (viii) BCH 317: Metabolism of Amino Acids and Genetic Disorders (2 CU)
 - (ix) BCH 319: Biochemistry Laboratory III (2 CU)
 - (x) BCH 315: Immunology (3 CU)
 - (xi) BCH 341: General Metabolism II (3 CU) “for Pharmacy & Medical Students”
 - (xii) BCH 405: Biotechnology and Genetics Engineering (2 CU)
 - (xiii) BCH 401: Advance Enzymology (2 CU)
 - (xiv) BCH 421: Medical Biochemistry (2 CU)

- b. Second Semester Theory/Practical Courses**
 - (i) BCH 212: General Biochemistry Laboratory II (1 CU)
 - (ii) BCH 204: Metabolism of Lipids (2 CU)
 - (iii) BCH 208: Metabolism of Nucleic Acids, Proteins & Genetic Diseases (2 CU)
 - (iv) BCH 210: Bioenergetics (2 CU)
 - (v) BCH 242: General Metabolism (3 CU) “For Medical Students”
 - (vi) BCH 402: Tissue Biochemistry (1 CU)
 - (vii) BCH 406: Metabolic Regulation (2 CU)
 - (viii) BCH 408: Membrane Biochemistry (1 CU)
 - (ix) BCH 414: Metabolism of Drugs, Xenobiotics and Toxicology (2 CU)
 - (x) BCH 420: Biochemical Endocrinology (3 CU)
 - (xi) BCH 422: Forensic Biochemistry (2 CU)

29. Postgraduate Courses Taught:

- a. Postgraduate Diploma (PGD Nutrition)**
 - (i) NUT 716: Nutrition and Disease
 - (ii) NUT 722: Community Management of Acute Malnutrition

- b. MSc. Biochemistry**
 - (i) BCH 805: Research Techniques in Biochemistry
 - (ii) BCH 809: Research Design and Biochemical Reasoning

- c. MSc. Biotechnology**
 - (i) BTE 801: Advance Cell Biology
 - (ii) Molecular Biology Laboratory

30. Undergraduate Project Supervision

- (i) Ameliorative Effect of Phenolic Rich-Fraction of *Terminalia catappa* Ripped Fruits on CuSO₄-induced Neurotoxicity in *Drosophila melanogaster* Model.
- (ii) Neuroprotective Effect of Phenolic Rich-Fraction of *Terminalia catappa* Ripped Fruits on CuSO₄-induced Neurotoxicity in *Drosophila melanogaster* Model.
- (iii) Neuroprotective Effect of Flavonoid Rich-Fraction of *Adansonia digitata* Fruits Pulp on CuSO₄-induced Neurotoxicity in *Drosophila melanogaster* Model.
- (iv) Ameliorative Effect of Flavonoid-Rich-Fraction of *Tamarindus indica* Fruits Pulp on A β ₄₂-Gal₄ transgenic *Drosophila melanogaster*.
- (v) Combine therapy of Quercetin rich fraction of *Tamarindus indica* and Bitter leaf for High Glucose Induced Diabetes in Haworth Strain *Drosophila melanogaster*
- (vi) Effect of Stem Bark Methanolic Extract of *Boswellia Dalzielli* Hutch on Pyrazinamide-induced Hyperuricemic Albino Rats.
- (vii) Comparative Studies on Phytochemical Analysis of Baobab Fruit Pulps, Leaves Stem bark and Roots.
- (viii) Anti-Hyperuricemic Activity of Methanolic Extracts of *Cassia Occidentalis* L. In Pyrazinamide-Induced Hyperuricemic Albino Rats.
- (ix) Anti-Hyperlipidaemic Activity of *Boswellia Dalzielli* Hutch Methanolic Extract in Triton X-100-Induced Hyperlipidaemic Albino Rats.
- (x) Effect of Methanolic Extract of *cassia Occidentalis* L. on Triton X-100-Induced Hyperlipidaemic Albino Rats.
- (xi) Effect of Temperature and pH on Sheep Milk-derived Xanthine Oxidase activities.
- (xii) Determination of Michaelis Constant (KM) for Cow, Goat and Sheep Milk-derived Xanthine Oxidase.
- (xiii) Inhibitory Effect of Honey on Cow Milk-derived Xanthine Oxidase.
- (xiv) Isolation and Partial Purification of Cow Milk-derived Xanthine Oxidase.
- (xv) Involvement of Nitric Oxide in Biochemical Response to Classical Music in Rats.
- (xvi) Involvement of Nitric Oxide in Circadian Cycle.

31. Postgraduate Project Supervision

Currently supervising thesis of three (3) MSc Biochemistry and three (3) MSc Biotechnology Students in Neuroscience and neurochemistry Areas of research.

32. REFEREES:

- (i)** Professor Muhammad Tanko
Vice Chancellor, Kaduna State University,
Kaduna State, Nigeria.
+2348099600942
- (ii)** Professor Ahmad Faizal Abdull Razis
Head, Institute of Bioscience Laboratories,
Universiti Putra Malaysia,
+601115662667
- (iii)** Dr. Abdurrahman Mahmoud Dogara
Department of Biological Science
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Email: abdouljj@yahoo.com; Phone No.: +2348036437378