CURRICULUM VITAE: DR. C. J. ADESEKO

1.	**Names in full:**	ADESEKO Catherine Joke
2.	**Sex:**	Female
3.	**Nationality:**	Nigerian
4.	**Marital Status:**	Married
5.	**Number & Ages of Children**:	Three (3), 25, 23, and 19
6.	**Permanent Home Address:**	No. 10, Zone D, Asuwamo Quarter, Ilupeju Estate, Aule Road, Akure, Ondo Nigeria.
7.	**Present Postal Address:**	Department of Biotechnology, Federal University of Technology, P.M.B. 704 Akure, Nigeria. **Email:** cjadeseko@futa.edu.ng **Tel:** +234-806-054-1475

8. Present Employment: Lecturer/researcher, Department of Biotechnology, The Federal University of Technology Akure, Nigeria

9. Educational Institutions Attended:

i. Federal University of Technology, Akure, Nigeria
ii. Obafemi Awolowo University, Ile-Ife
iii. Ondo State University, Ado, Ekiti State

10. Qualifications (with dates)

a) Academic:

i. Ph.D. Applied Biochemistry, 2021
ii. M. Tech. Applied Biochemistry, 2015
iii. B.Sc. Applied Biochemistry, 1998

a) Others (if any):

Postgraduate Diploma in Education (PGDE), 2007

11. Distinctions:

i. Commendation for Volunteer Service to the Department of Biotechnology, Federal University, Akure for two years as Adjunct Lecturer without pay, 16th October, 2024.
ii. Biotechnology Student's Society of Nigeria (BSSN), 2nd February, 2026.

12. Membership of Professional Bodies:

i. Nigerian Society of Biochemistry and Molecular Biology (NSBMB)
ii. Organization for Women in Science for the Developing World (OWSD)
iii. Nigerian Women in STEM (NWiSTEM)

13. Reviewer of Academic and Professional Journal:

i. Journal of Biocatalysis and Agricultural Biotechnology

ii. Planta Journal
iii. Journal of Biomolecular Structure and Dynamics
iv. Journal of Biologically Active Products from Nature
v. Journal of Cereal Science
vi. Vegetos Journal

14. External Examinership:

a) Undergraduates: None

b) Postgraduates: None

15. Work Experience:

a) **University:** Lecturer II, Biotechnology Department, FUTA, Nigeria (June, 2023 – Till date)

b) **Others:** None

i. Courses Taught at the University Level:

a. Undergraduate Level:

First Semester:

BTH 505 (Practical Biotechnology)
BTH 501 (Pharmaceutical Biotechnology)
BTH 411 (Human Genetics)
BTH 405 (Quality Control and Product Standardization)
BTH 305 (Biochemical Engineering)
BTH 599 (Students' Final Year Project)

Second Semester:

BTH 506 (Enzyme Biotechnology)
BTH 316 (Biotechnology Industrial Training)
BTH 314 (Introductory Genomic and Proteomics)
BTH 206 (Physiology and Metabolism)
BTH 502 (Seminar in Biotechnology)

b. Postgraduate Level: None

ii. **Postgraduate Supervision:**

a. **Master's degree:** None
i. Major Supervision
ii. Minor Supervision

b. **Ph. D degree:** None
i. Major Supervision
ii. Minor Supervision

iii. Research in Progress

a. On-going research:

i. Extraction, Partial Purification, and Biochemical Characterization of Peroxidase from Pumpkin (*Telfairia occidentalis*) Fruit.

ii. Isolation, Partial Purification, and Inhibitory Kinetics of Catechol oxidase from Pumpkin (*Telfairia occidentalis*).

iii. Production, Purification, and Characterization of *Glucose oxidase* from *Aspergillus Species* isolated from Palm weevil for Industrial Applications.

iv. Production, Purification, and optimization of *β-Glucosidase* isolated from *Aspergillus Species* obtained from Palm wastes for Biotechnological Applications.

b. Research completed but not yet published:

i. Extraction, partial purification and physicochemical properties of protease from the peels of African Cherry (*Chrysophyllum albidum*) fruit.

ii. Extraction, partial purification and physicochemical properties of polyphenol oxidase from Pineapple (*Ananas comosus*) fruit peels.

iii. Extraction of polyphenol oxidase, proximate composition, phytochemical and phenolic constituents of Avocado pear (*Persea americana*) fruit

c. Manuscript submitted for publication:

i. Adeseko, C.J. and Olorunsogbon, S.O. Protease from Avocado Pear (*Persea americana*) Fruit Peels: Its Biochemical Studies, Phenolic Constituents & Molecular Interaction *in-Silico* (Essential of Life Sciences).

iv. Fellowship Awards: None

v. Research Grants (Specify amount)

a. National:

i. TETFUND Research Grant entitled: "Biochemical Studies on the browning in the peel and pulp of African Bush Mango and the Nutritive Value of Its Stored Juices".

ii. TETFUND Institution Based Research (IBR) Grant: Production of Eco-enzyme from Fruits and Vegetables Wastes for the Treatment of Wastewater.

b. International: None

vi. **Publications**

a. These / Dissertations:

i. Biochemical Studies of Enzyme-Induced Browning of African Bush Mango (*Irvingia gabonensis*) Fruit and Its Nutritive Value Ph.D (2020).

ii. Purification and Biochemical Characterization of Polyphenol oxidase from Seeds of Melon (*Citrullus colocynthis*) (M. Tech. 2014).

iii. Hypoglycemic Effect of *Bridelia Ferruginea* on Alloxan-Induced Diabetic Rats (B. Sc. 1998).

b. Books (peer-reviewed): None

i. Authored Books: Not Applicable

ii. Edited Books: Not Applicable

iii. Contribution (s) to Books: Not Applicable

c. Journal Articles:

1) Fatoki, T.H., Sanni, D.M., Momodu, D.U., Ugboko, H.U., **Adeseko, C.J**. and Faleye, B.C. (2018). Evaluation of Empirical Functions and Fate of Isomaltose. *Journal of Applied Life Sciences International*, 16(2): 1-10. [India, Contribution, 10%]
2) **Adeseko, C.J.,** Sanni, D.M., Salawu, S.O., Kade, I.J. and Fatoki, H.T. (2019). HPLC-UV Standard Phenolic Constituents of African Bush Mango (*Irvingia gabonensis*) and Molecular Docking on Polyphenol Oxidases. *Journal of Applied Life Sciences International*, 22(1): 1-11. [India, Contribution, 40%]
3) Fatoki, T.H., Ibraheem, O., Ogunyemi, I.O., Akinmoladun, A.C., Ugboko, H.U., **Adeseko, C.J.,** Awofisayo, O.A., Olusegun, S.J. and Enibukun, J.M. (2020). Network analyses, sequence and structure dynamics of key proteins of coronavirus and human host, and molecular docking of selected phytochemicals of nine medicinal Plants. *Journal of Biomolecular Structure and Dynamics*, 1794971. [United Kingdom, Contribution, 10%]
4) **Adeseko, C.J**. and Fatoki, T.H. (2020). Isolation and Partial Purification of Polyphenol oxidase from Seed of Melon (Cucumeropsis edulis). *Journal of Biointerface Research in Applied Chemistry*, 11 (2): 9085-9096. [Romania, 60%]
5) **Adeseko, C.J.** (2020). Identification and Quantification of Phenolic compounds in African bush mango (*Irvingia wombolu*) fruit, free-radical scavenging activity and the nutritive values of Its Peel and Pulp extracts. *International Journal of Food Science and Nutrition,* 5 (5): 09-18. [India, Contribution, 100%]
6) Sanni, D.M., **Adeseko, C.J.,** and Bamidele, S.O. (2020). Purification and biochemical characterization of polyphenol oxidase from seeds of melon (*Citrullus colocynthis*). *Nova Biotechnologica et Chimica*, 19 (2): 223-231. [Macedonia, Contribution, 30%]
7) Fatoki, T.H., Ibraheem, O., **Adeseko, C.J.,** Afolabi, B.L., Momodu, D.U., Sanni, D.M., Eniibunkun, J.M., Ogunyemi, I.O., Adeoye, A.O., Ugboko, H.U., Ogu, A.C., Oyedele, A.S., Adedara, A.O., Abiodun, J.J., Ogundana, O.R. and Ebosa, O.E., (2021). Melanogenesis, its Regulatory Process, and Insights on Biomedical, Biotechnological, and Pharmacological Potentials of Melanin as Antiviral Biochemical. *Biointerface Research in Applied Chemistry*. 11 (4): 11969–11984. [Romania, Contribution, 10%]
8) **Adeseko, C.J**., Sanni, D.M., Salawu, S.O., Kade, I.J., Bamidele, S.O. and Lawal, O.T. (2021). Purification and biochemical characterization of polyphenol oxidase of African bush mango (*Irvingia gabonensis*) fruit peels. *Biocatalysis and Agricultural Biotechnology* 36 (2021): 102119. [Netherlands, Contribution, 40%]
9) **Adeseko, C.J**., Sanni, D.M. and Lawal, O.T. (2022). Biochemical Studies of Enzyme-Induced Browning of African Bush Mango (*Irvingia gabonensis*) Fruit Pulp. *Journal of Preparatory Biochemistry and Biotechnology* 52 (7): 835-844. [United Kingdom, Contribution, 50%]

10) **Adeseko, C. J**., Salawu, S.O., Sanni, D.M. and Kade, 1.J. (2022). Nutritional Evaluation, Phenolic Constituents and Free-Radical Scavenging Activity of Peels and Pulp of African Bush Mango (*Irvingia gabonensis*) Fruit. *Journal of Advances in Food Science and Technology*, 9(1): 35-44. [India, Contribution, 40%]
11) Fatoki, T. H, Faleye, B. C, Nwagwe, O. R, **Adeseko, C. J** and omuecku, N. F. (2024). Friedelin Could Moderately Modulate Human Carbonic Anhydrases: An *in-Silico* Study. *Biointerface Research in Applied Chemistry*. Platinum OpenAccess Journal, 14 (2). [Romania, Contribution, 15%
12) **Adeseko, C. J**. and Odewale, D.K. (2025). Amylase from *Aspergillus niger*: Its Production, Partial Purification and Biochemical Characterization for Industrial Application as Eco-Friendly Detergent Additive. *Asian Journal of Biochemistry, Genetics and Molecular Biology*, 17(11): 14-23. [India, Contribution, 60%]
13) **Adeseko, C. J**. and Olajide, I A. (2025). Submerged Fermentation, Partial Purification and Characterization of Xylanase isolated from Fusarium Solani for Biotechnological Applications. *Journal of Advances in Biology and Biotechnology*, 28 (11): 1221-1231. [India, Contribution, 60%]
14) **Adeseko, C.J.** and Hassan, J.I. (2025). Partial Purification, Biochemical Characterization and Biotechnological Application of Cellulase Isolated from *Aspergillus niger* for Juice Clarification. *Biotechnology Journal International*, 29 (6): 10-23. [India, Contribution, 60%]
15) **Adeseko, C. J**. and Fabuyi, F.S. (2025). Computational Evaluation of Pharmacokinetics, Potential Bioactive Compounds Targets of *Glutathione S-Transferase* Against Deleterious Effects of MSG: The Health Benefits of Turmeric (*Curcuma Longa* L.). *Plant Cell Biotechnology and Molecular Biology*, 26 (5-6):111-25. [India, Contribution, 60%]
16) Adewusi, O. F., Oyeniyi, E. A., Ogunmolasuyi, A. M., Ogunwole, G. A., **Adeseko, C. J**., Macauly, B. M., Oduntan, A. S. and Adeyemi, J.A. (2025). Treatment of Water Contaminated with Palm Oil Mill Effluent Using Eco-enzyme, Produced from Watermelon Peels. *FUTA Journal of Life Sciences*, 6 (2). [Nigeria, Contribution, 10%]
17) **Adeseko, C. J**., Oyesanmi, E. O. and Adedayo, T. E. (2026). Investigating the Nutritional Status, Phenolic Compounds and Phytochemical Constituents of Pomelo (Citrus maxima) Fruit. *Journal of Applied Life Sciences International*, 29 (2): 88-98. [India, Contribution, 50%]
18) Adeseko, C. J. (2026). Production, Partial Purification and Characterization of Free-and Immobilized Urease Isolated from Aspergillus Species Obtained from Long-Horned Beetles (*Cerambycidae Latreille*), *Journal of Sustainable Materials, Processing and Management.* Vol. 6 (1): 1-6. [Malaysia, Contribution, 100%]

d. **Papers already accepted for publications (*only in the last 3 years*):** None

e. Published Conference Proceedings: None

f. Monographs / Technical Reports: None

vii. Conference(s) Attended with Dates and /or Papers Presented (non-scorable)

i. **Adeseko, C. J.** and Odewale, D.K. (2025). Amylase from *Aspergillus niger*: Its Production, Purification, Physicochemical Properties and Biotechnological Application as Detergent Additives. Presentation at OWSD NG 7th Biennial Conference, Federal University of Technology, Akure, Nigeria (July 6th -10th, 2025) Book of Abstracts.

ii. **Adeseko, C. J**., Hassan, I. F. and Lawal O.T. (2025). Production, Partial purification and Characterization of Cellulase from *Aspergillus niger*, and Its Molecular Identification for Biotechnological Applications. OWSD NG 7th Biennial Conference, Federal University of Technology, Akure, Nigeria (July 6th -10th, 2025) Book of Abstracts.

iii. Separations Simply Spectacular: "Introduction to Molecular Microbiology Training by Separations on the 23rd of July 2024.

iv. Advanced Digital Appreciation Program for Tertiary Institution, Digital Skills, Cybersecurity & Emerging Technologies (DiSCET) at the Federal University of Technology, Akure, Ondo State, Nigeria, August 8th - 12th, 2023.

v. ICGEB 2022 Akure Conference "Laboratory Techniques in Molecular Biology and Enzyme Engineering for Sustainable Bioenergy: From Theory to Bench" at The Federal University of Technology Akure, Ondo State, Nigeria, September 26th -30th, 2022.

vi. Molecular Biology Techniques by FUTA, in conjunction with INQABA BIOTECH West Africa, November 15th – 17th, 2021

16. Extra Curricula Activities

a. Within University:

i. Registration Officer, Department of Biotechnology, (2023 - Date)

ii. Level Adviser for 100 Level Students (2023 – Date)

iii. SLS Committee on Departmental Curriculum Review (2024)

iv. Staff Adviser for Biotechnology Students (2024 - Date)

v. 2026 FUTA Nigerian Society of Biochemists and Molecular Biologists (NSBMB) Conference Committee (2025 - Date)

vi. A member of SLS Welfare Committee (2024 – Date)

b. Outside University:

i. A member of 2026 NSBMB Conference Committee

ii. Staff Adviser for Biotechnology Student's Society of Nigeria (2024 - Date)

17. Names and Addresses of three Referees:

Prof. D. M. Sanni

Department of Biochemistry,

Federal University of Technology,

Akure, Nigeria.

Tel: +234-8069256694 Email: dmsanni@futa.edu.ng

Prof. J. A. Adeyemi

Head, Department of Biotechnology,

Federal University of Technology,

Akure, Nigeria.

Tel: +234-816-958-0780 Email: jaadeyemi@futa.edu.ng

Prof. O. A. Fagbenro

Department of Fisheries,

Federal University of Technology,

Akure, Nigeria.

Tel: +2348077788688 Email: oafagbenro@futa.edu.ng

18. **Signature: …….** **Date: ……..**