

Resume

Personal Information

Dr. AjinzaA
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Career Objective

Dedicated academician and researcher with over 14 years of teaching experience in Biochemistry. Actively engaged in research, curriculum development, and student mentorship with proven expertise in phytochemical and pharmacological studies. Passionate about promoting academic excellence and innovation in higher education.

Academic Qualifications

Qualification	University/Board	Year	Division/Merit
Ph.D.Biochemistry	University of Kerala	2024	
M.Sc. Biochemistry	University of Kerala	2007	First Class
B.Sc. Biochemistry	University of Kerala	2005	Distinction
SSLC	SSLC Board	2000	Distinction
UGC/NET(LifeScience)	-	2009	-

Research Project

Phytochemical analysis and *in vitro* antioxidant activity of *Boerhaavia diffusa* roots and leaves
Funding Agency: UGC | Amount: ₹1,40,000 | Duration: 2 years | Year: 2014

Publications

1. Ajinza, A. A., RAUF, A. A. and Edwin, B. T. (2023) Anti-Inflammatory Effects of *Vitex altissima* Leaf Extract in Lipopolysaccharide-Induced RAW 264.7 Macrophages". International Journal of Pharmaceutical Sciences and Drug Research, vol. 15, no. 4, July 2023, pp. 461-8, <https://doi.org/10.25004/IJPSDR.2023.150410>.
2. Ajinza A, Arun A Rauf, & Bobby T Edwin. (2024). HPLC analysis and antimicrobial activity of *Vitex altissima* leaves extracts. Plant Science Today, 11(4).
<https://doi.org/10.14719/pst.3649>

Book Chapters / Proceedings

1. Phytochemical Analysis and Neuroprotective Effect of *Vitex altissima* L. on Amyloid Beta Peptide Induced Injury in Human Neuroblastoma IMR32 Cells in Proceedings of International Conference on Energy Environment & Health, ISBN: 978-81-940627-0-7
2. *In vitro* evaluation of anti-inflammatory potential of leaves extract of *Vitex altissima* in RAW 264.7 cell culture in Recent Advancements in Life Sciences, ISBN: 978-81-956748

Paper Presentations

1. International Seminar on Multidisciplinary Perspectives on Culture, Society, Environment and Sustainable Development (2025) - NSS College, Nilamel, Shinawatra University, Bangkok, & KSHEC
2. International Seminar on Integrative Approaches to Collaborative Thinking Interact (2025) - SN College, Sivagiri
3. International Conference on Recent Advancements in Life Sciences (2022)- CEPCI
4. International Conference on Energy Environment & Health (2020) - Sree Ayyappa College, Eramallikara.
5. National Seminar on New Horizons in Cancer Treatment and Prevention: From Bench to Bedside (2018) - SN College, Kollam
6. National Seminar on Recent Advances in Lifestyle Diseases (2014) - TKM College of Arts and Science, Kollam

Academic Duties & Extension Activities (2024-25)

- Institute Nodal Officer of NSP
- District Nodal Officer – (DCE Scholarship)
- PTA Secretary, TKM College of Arts and Science
- Tutor – B. Sc Biochemistry (2023–26)
- TKM Cooperative Society – Member
- Chairman – S1 M.Sc Biochemistry (2024–25)

- Minority Cell – Member
- Antiragging Committee – Member
- TIJMR – Executive Editor
- TKMCAS Alumni –Executive Member

TRAINING & DEVELOPMENT – LIST OF PROGRAMS ATTENDED

Faculty Development Programmes

- ChatGPT& AI Tools for Educators (2023) – KSHEC
- OBE and Generative AI in Teaching & Research (2024) – KSHEC
- Role of Teachers in Quality Enhancement (2020)
- Online Education in HEIs (2020)

Refresher Courses

- Refresher Course in Contemporary Trends in Bio-Sciences - UGC-Malaviya Mission-Teacher Training Centre, Kumaun University, Nainital (2025)
- Refresher course in Life Sciences - UGC HRDC, Kariavattom (2020)
- Refresher course in Environmental Science – UGC HRDC, Kariavattom (2018),

Short-Term Courses

- Value-Based Education – AMU (2020)
- Gender Sensitization – AMU (2021)

OrientationProgramme

- UGC Sponsored IT-Oriented Orientation Programme- UGC HRDC, Kariavattom(2017)

List of PG Projects guided

1. Evaluation of antioxidant and anticancer activity of leaf extract of *Stachytarphetajamaicensis* on A431 cells (2019)
2. Phytochemical analysis and *in vitro* cytotoxic activity of leaf extracts of *Vitex altissima*. (2019)
3. Neuroprotective effect of plant extract on IMR32 cells against amyloid beta peptide. (2020)
4. Evaluation of anti-inflammatory and anti-angiogenic potential of *Vitex altissima* leaf extracts. (2021)

5. Hepatoprotective and antioxidant capacity of *Jatropha curcas* methanol extract against ethanol induced hepatotoxicity in Hep G2 cells. (2021)
6. *In vitro* hepatoprotective effect of *Duranta erecta* against CCl₄ induced toxicity in HepG2 cell line. (2022)
7. Cell growth inhibition and induction of apoptosis by NLRP3 inflammasome inhibitor in melanoma cells. (2022)
8. Study on the expression pattern of mif gene in oral tongue cancer and its relation with epithelial to mesenchymal transition using immunohistochemical methods. (2022)
9. Polysaccharide selenium nanoparticle tagged with paclitaxel for colon cancer management. (2022)
10. *In vitro* anti-proliferative and apoptosis inducing effect of the polyphenolic rich fraction of *Pithecellobium dulce* on A549 cell line. (2022)
11. Studies on the cardioprotective effects of resveratrol co administration on arsenic trioxide induced toxicity. (2023)
12. Green synthesis of silver nanoparticles using *Catharanthus roseus* leaf extract and study of its antimicrobial, antioxidant and photocatalytic activities. (2023)
13. Squalene extracted from *Hemigraphis colorata* differentially affecting cellulitis and formulation of anti-cellulytic gel. (2024)
14. Polyphenols extracted from *Hemigraphis colorata* differentially affect cancer cells. (2024)

List of UG Projects guided

1. Isolation and study of alpha amylase enzyme from *Glycine max* (Soy bean) (2018)
2. Isolation and kinetic study of beta amylase from *Amorphophallus paeonifolium* (2019)
3. Phytochemical analysis and *in vitro* anticoagulant activity of latex of five different plant species (2020)
4. Study on selected nutritional parameters in seeds. (2021)

5. Phytochemical screening and bioactivity evaluation of methanolic extracts of *Hemigraphis alternata* leaves (2024)