

CURRICULUM VITAE



Dr.K. Vasudha, M.Sc., Ph D.
Lecturer in Biotechnology
VSR Govt.Degree & PG College
Movva, Krishna Dist., AP.
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Academic Profile

Ph D Biotechnology		2019	Sri Padmavati Mahila Visvavidyalayam, Tirupati
M.Sc Biotechnology	First division(70%)	2003	Periyar University, Salem, Tamil Nadu.
NET Qualified		2005	ICAR-ASRB NET
Advanced Diploma in Bioinformatics		2005	IICT, Hyderabad.
M.Sc Botany		2007	Acharya Nagarjuna University, Guntur,AP

Service Profile

- ❖ Recruited by APPSC as Lecturer in Biotechnology by Direct Recruitment in 2008.
- ❖ Worked as a Lecturer in Biotechnology, Govt.College(A), Rajamahendravaram from 23-06-2008 to 21.7.2023
- ❖ **Currently working at VSR Government Degree & PG College, Movva, Krishna Dist. AP from 22.7.23 to till date.**
- ❖ Worked as a Lecturer Associate in Govt.Degree College For Women, Khammam ,TS during 2005-06.
- ❖ Worked as a Lecturer in Kavitha Memorial Degree College, Khammam, TS during 2006-08.
- ✓ **No.of NPTEL courses completed: 03**

Orientation course - Attended from **25/4/2011 to 21/5/2011** at Academic Staff College, JNTU, Hyderabad.

Refresher Courses - (3)

- (i) Attended Refresher course on "Environmental Studies" from 1.8.12 to 25.8.12 at Academic Staff College, Osmania University, Hyderabad.
- (ii) Attended Refresher course on "Human Rights" from 8/3/13 to 28/3/13 at Academic Staff College, Andhra University, Visakhapatnam.
- (iii) Completed UGC Sponsored Two week online Refresher Course on "Drug discovery and Formulation development" from 12.10.2020 to 27.10.2020 with 'A' grade from JNTU, Hyderabad.

Short Term Courses - (1)

- Completed UGC Sponsored one week online short term course on "Challenges in Discovery of Antiviral agents and Vaccines" from 08.06.2020 to 13.06.2020 from JNTU, Hyderabad.

Research Activity – Sanctioned Teacher fellowship for completion of Ph.D under UGC FDP (Faculty Development Programme – XII plan) in 2017 for a period of two years (31.3.2017-31.3.2019) and worked at Dept. of Biotechnology, Sri Padmavathi Mahila Visvavidyalayam, Tirupati and awarded with PhD in Sep-2019.

Area of Specialization – Reproductive Toxicology

Research Interests - Microbial biotechnology, Nano biotechnology, Reproductive Toxicology

Research Publications: 14

1. Physicochemical characterization of sodium doped zinc oxide nano powder for antimicrobial Applications. Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy. <https://doi.org/10.1016/j.saa.2022.122297>, 291 (2023) 122297 (IMF: 4.831).
2. Optical and antimicrobial activity of pure and Eu doped ZnSO₄·7H₂O single crystals. Journal of Molecular Structure. <https://doi.org/10.1016/j.molstruc.2022.132944>, 1262 (2022) 132944 (IMF:3.841)
3. Vasudha Katragadda, Meghapriya Adem, Reshma Anjum Mohammad Sainath Sri Bhasyam, Kishori Battini. Testosterone recuperates deteriorated male fertility in cypermethrin intoxicated rats. Toxicol Res. <https://doi.org/10.1007/s43188-020-00046>, eISSN 2234-2753, pISSN 1976-8257, 2020 (IMF:2.283).
4. K. Vasudha, A. Meghapriya and B. Kishori. Recovery of male reproductive health in cypermethrin exposed rats by testosterone. International Journal of Research and Analytical Reviews (IJRAR) : <http://doi.org/10.1729/Journal.19526>, December 2018, Volume 5, Issue 4;311-317(IMF: 5.75)

5. K.Vasudha, D.Archana, B.Mutyalamma and B. Kishori. Phytochemical screening, antimicrobial and antioxidant activities of root and leaf extracts of *leucas aspera*. Asian Journal of Pharmaceutical Science and Research(AJPCR): <http://dx.doi.org/10.22159/ajpcr.2019.v12i3.29085>, March 2019, Vol 12, Issue 3;141-147 (IMF :0.58)
6. M. Pravallika , K. Vasudha , D. Archana , S. B. Sainath and B. Kishori. Recovery of diminished Spermatogenesis by resveratrol against the pyrethroid, Lambda cyhalothrin – induced reprotoxicity in albino rats. International Journal of Pharmaceutical Sciences and Research(IJPSR): [http://dx.doi.org/10.13040/IJPSR.0975-8232.10\(7\).3474-81](http://dx.doi.org/10.13040/IJPSR.0975-8232.10(7).3474-81), July 2019; Vol. 10(7): 3474-3481 (IMF : 1.81) .

Books Published : 01

Title : **Testosterone Mitigates Cypermethrin - Induced Repro toxicity in Male Rats**
 Publisher : **LAMBERT Academic Publishing**
 ISBN Number &No.of Pages : **978-620-4-20272-3 & 184**
 Publication Period : **03.09.2021**

Paper presentations in International and National Seminars : 11

1. “Phytoassisted synthesis of Silver Nano particles from *Ocimum basilicum tenuiflorum* VAR. KRISHNA TULSI and *Ocimum basilicum* L. VAR. THYRSIFLORUM and evaluation of antimicrobial activity against clinically significant pathogens” presented at Two days National Conference on Recent Evolutions and Applications in Chemistry(REACH-2022), organized by Dept.of Chemistry, Government College(Autonomous), Rajamahendravaram from 18-19th Nov.2022. ISBN No: 978-93-5811-577-2
2. “Nutraceuticals grapple COVID-19 pandemic in prenanant Women” presented at Virtual International Seminar on Strategies and Opportunities in dealing with COVID-19 pandemic- Biotechnological Implications held on 14.05.2020 by Dept.of Biotechnology, Sri Padmavati Mahila Visvavidyalayam, Tirupati,Andhra Pradesh .
3. “Cypermethrin Induced paternal mediated reproductive toxicity in adult albino rats” presented at UGC Sponsored National Seminar on Advances in Biotechnology and Bioinformatics, held at DNR college(A), Bhimavaram in collaboration with Dept.of Zoology, AKNU, Rajamahendravaram on 7th Feb 2020.
4. “Green synthesis and characterization of silver nanoparticles using *Butea monosperma* and their antibacterial and antioxidant activities” presented at UGC – SERO sponsored National seminar on “ Role of Chemistry in Nano Technology (RCNT), organized by Dept.of Chemistry, SVArts college, Tirupati from 13th – 14th March, 2019.
5. “Ameliorative effects of testosterone against cypermethrin induced repro-toxicity in adult male rats” presented at DBT – sponsored 8th National Seminar on Bioinformatics, organized by SVIMS Bioinformatics centre, Tirupati from 22nd to 23rd February 2019.
6. “Anti androgen activity of Cypermethrin induced Reproductive toxicity in adult Albino rats” presented At DST-sponsored National Conference (IPTCON-2018a) on Recent Trends in Translational Research 28-29 June, 2018 organized by IPT, Sri Padmavati Mahila Visvavidyalayam, Tirupati.

7. “Ameliorative effect of resveratrol on Lambda-cyhalothrin induced Reproductive Toxicity in Male albino rats” presented at National Conference on Innovations and future challenges in Biotechnology (NCIFCB – 2018) 26-28 March , 2018 organized by Dept. of Biotechnology, Sri Venkateswara University, Tirupati.
8. “Protective Role of Vitamin C on Cypermethrin Induced Reproductive Toxicity in Male Albino Rats” presented at UGC sponsored National Conference on Recent Trends in Animal Physiology, Biotechnology and Medical Research 29-30 March, 2016 organized by Dept. of zoology, Sri Venkateswara University, Tirupati.
9. “Effect of Pesticides (Cypermethrin) on Female Reproductive Health” presented at Two day National seminar on Endocrine system-Disorders and Stress Response held on 16- 17 December, 2014 at Govt.Degree college for women, Begumpet, Hyderabad.
10. “GM Crops – Issues, benefits and drawbacks” presented at UGC sponsored National seminar on Transgenic Crops – Technology of the Millennium organized by The Dept.of Botany, Sri Y.N.College(A), Narsapur on 29-30 June , 2013.
11. “ BioNanotechnology and its Applications” presented at Two day National conference on Advances in Biotechnology for sustainable initiatives in 21st Century & Exhibition on Biovizag 2012 during 30-31 March, 2012 organized by PG Dept.of Biotechnology, Dr. V.S.Krishna govt.college, Visakhapatnam.

Poster presentations : 04

1. “*Carica papaya* latex mediated synthesis of ZnO nano particles and evaluation of bactericidal activity” presented at National Conference on Forays of Nanotechnology Research into Multidisciplines, organized by Dept.of Physics and Chemistry, Govt.College, Ravulapalem, E.G Dist. Andhra Pradesh from 3-4 March 2020.
2. “Isolation, Screening and Molecular Characterization of Bacteria from Paddy field” presented at Andhra Pradesh Science Congress-2019 from 28th-30th Nov 2019 held at Dr.B.R.Ambedkar University, Srikakulam.
3. “ Recovery of Cypermethrin Induced Paternal mediated Reproductive Toxicity by Testosterone” presented at DST-CURIE sponsored National conference on Innovative Research Trends in Drug Discovery 21-22 March, 2018 organized by IPT, Sri Padmavati Mahila isvavidyalayam(Women’s University), Tirupati.
- 4.“Orbit food” presented at UGC sponsored National seminar on Advances,Breakthroughs, Challenges, Developments in Foodomics – 2016” organized by community college, Government college, Rajahmundry on 10-11 November 2016.

Workshops attended

1. UGC sponsored Two day National Workshop on “ Listening to scientists and social scientists on Translational Research” organized by Center For Translational Research, Sri Padmavati Mahila Visvavidyalayam(Women’s University), Tirupati from 22nd to 23rd January 2019.
2. UGC sponsored Two day National Workshop on “Plagiarism and Publishing in Scopus Indexed Journals” organized by IQAC, Sri Padmavati Mahila Visvavidyalayam(Women’s University), Tirupati from 4th Jan 2019 to 5th Jan 2019.
3. One week Hands – on Workshop on “Cloning and Transformation Techniques” organized by SSIIE-TBI from 1st to 7th December 2018 at Sri Padmavati Mahila Visvavidyalayam(Women’s University), Tirupati.
4. Three Day Hands on Workshop on “Structural Biology & Phylogenetic Analysis” organized by SSIIE-TBI on 26,27,28 April, 2018 at Sri Padmavati Mahila Visvavidyalayam(Women’s University), Tirupati.
5. UGC sponsored National Workshop on “ Conservation of Wildlife and Ecotourism in India” at Dept.of Sericulture, Sri Padmavati Mahila Visvavidyalayam(Women’s University), Tirupati during 13,14 March,2018.
6. 2nd National Workshop on “Tools,Techniques and their Application in Modern Medicine” At Multi Disciplinary Research Unit, Sri Venkateswara Medical College, Tirupati, A.P. India from 24-28 July, 2017.
7. The STEM Teacher Training Workshop on “Research-Based Pedagogical Tools”(Level 1) held from 26th Feb-1st March,2017 at the Indian Institute of Science Education and Research(IISER) Pune.
8. “Digital Science Lab workshop” on 24 November,2016 organised by Government college(A), Rajamahendravaram in association with Vernier(edutech).
9. UGC sponsored one day National workshop on “Data Analysis and its applications” held on 30-1-2015 organized by the Dept.of Statistics, Government college(A), Rajahmundry.
10. 88th BRNS-IANCAS National Workshop on “Radiochemistry and Applications of Radioisotopes” conducted jointly by GC(A), Rajahmundry and Indian Association of Nuclear Chemists and Allied Scientists(IANCAS) during November 24 to 29,2014.

Membership

Life member in BRNS-Indian Association of Nuclear Chemists and Allied Scientists(IANCAS), Bhabha Atomic Research Centre, Mumbai.

Awards

- **Received Outstanding faculty in Biotechnology award from Venus International Foundation(VIFA), Chennai for AY 2023.**
- Received Best Teacher award at District and College level for 2013-14 in District Level Academic Festival , Yuvatharangam-2014 by Commissioner of Collegiate Education,AP.

Teaching Experience

- ✓ 15 years of Teaching experience for undergraduate Biotechnology students
- ✓ 2years of teaching experience for Postgraduate Biotechnology students while pursuing PhD at Sri Padmavati Mahila Visvavidyalayam(Women's University), Tirupati
- ✓ 3yrs of PG Zoology teaching experience (Tools and Techniques of Biotechnology)

Academic Experience

- ❖ Handled Student study projects for B.Sc Biotechnology students
- ❖ Handled Projects for PG Biotechnology students
- ❖ Handled Theory classes for Cell Biology, Genetics, Microbiology, Molecular Biology, Biochemistry, Immunology, Genetic Engineering, Tools and Techniques etc for UG and PG Biotechnology students.

Technical Experience

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- Experienced in handling Laboratory animals (Rats) – Maintenance and carrying out rat related experiments.
- Isolation and separation of Nucleic acids, Proteins
- Qualitative and Quantitative estimations
- PCR, qRT-PCR studies
- Gel electrophoresis, SDS-PAGE
- Microbial cultures –Isolation and identification and biochemical and molecular characterization
- Plant Tissue culture

Services rendered while working at Govt.College(A), Rajahmundry

Role in College Activities (23.6.2008 – 30.3.2017)

- ✓ In charge of the Department of Biotechnology
- ✓ BOS chairman
- ✓ Proctor for II H BBC Students.
- ✓ Exam paper setter and evaluator for other autonomous colleges
- ✓ convenor for I year Biotechnology Admissions.
- ✓ Member in Women Empowerment committee.
- ✓ Member in Restructured course committee
- ✓ Member in Remedial coaching committee
- ✓ Member in Eco club

Services rendered while working at Govt.College(A), Rajahmundry

From 30.3.2019 to 2021

- In charge of the Department of Biotechnology
- BOS chairman for Department of Biotechnology

From 2021-22 to 21.07.2023

- BOS member (subject expert) for other autonomous colleges
- Exam paper setter and evaluator for other autonomous colleges
- From October 2021 onwards appointed as **NSS Programme officer**
For Unit-V of Govt.College(A), Rajahmundry
- Proctor for I BBC and II Agro BBC
- **Mentor for BBC students community service projects and internships**
- **Internal examiner for evaluation of CSPs and Internships at college level**
- **Internal Squad member for Semester End Examinations**
- **Board of Research Studies(BRS) convener**
- **Coordinator for Dr.B R Ambedkar Open University(7.6.23 to 21.7.23)**

(K.VASUDHA)