

BIO-DATA

Dr. K. Aruna

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HODFT,
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EDUCATIONAL QUALIFICATIONS:

M.Sc – Applied Microbiology

M.Tech – Biotechnology

PhD – Nano biotechnology

Post PhD experience as visiting scientist - IIT Hyderabad, NIAB, CDFD.

Research area and expertise: Nanoparticles synthesis for tailored applications,

Biosensors – point of care detection of analyte- Mycotoxins in food and feed

Administrative Experience:

- HOD -Biotechnology
- BOS chairman -Biotechnology
- Member CAC-College Academic Committee
- In charge Librarian
- IPR Facilitation Centre Coordinator –JNTUA, HOD - Chemistry BOS Chairman from 2020

FDPS/WORKSHOPS/ CONFERENCES ORGANIZED:

- National conference on Emerging trends in Biotechnology. (Convener)
- National Conference on recent trends in downstream processing. (Convener)
- TWO-DAY's National workshop on Nano Biotechnology & Bioinformatics.(Convener)

- National workshop on Biosensors& Nano Biotechnology. (Convener)
- Conducted awareness program for industries On "Trademark registration, Design and Patent filing" on 19-01-2022.The speakers are Dr.K.Aruna, Coordinator, IPR Facilitation Centre, JNT University Anantapur, and Sri. M. Sudheer, IPR Attorney.
- Conducted a webinar on "Role of IPR Coordinators" for Principals and IPR Coordinators of JNTUA affiliated colleges on 21-02-2022. The Speaker is Dr.K.Aruna, Coordinator, IPR Facilitation Centre, JNT University Anantapur.
- Organized a webinar on Patent Search Analysis and Landscaping on 23-02-2022 for the faculty and students of JNTUA and JNTUA-affiliated colleges. The Speaker is Sri. Ravindranadh Kacharam, Senior Manager, SciTech Patent Art Services Pvt. Ltd. Hyderabad.
- Organized an awareness program on "How IPR Impacts Life" on 26-03-2022 at the JNTUA campus for the faculty and students of JNTUA. The speakers are Sri. Satish Kumar Yadav, Asst.director, MSME, New Delhi and Dr.Niharika Salar, Assistant Professor, Nalsar University, Hyderabad.
- Conducted a virtual seminar on "Plagiarism: Detection, Control and Legal Implications" on 26-04-2022 for the faculty of JNTUA and affiliated colleges. The Speaker is Dr.A.S. Chakravarthy, Osmania University, Hyderabad.
- Conducted a workshop on "Patent search training" from 25th august to 27th august 2022 for the faculty and students of JNTUA and JNTUA affiliated colleges. The Speaker is Sri. Ravindranadh Kacharam, Senior Manager, SciTech Patent Art Services Pvt. Ltd. Hyderabad.
- Conducted a seminar on "Strategies for funding schemes in MSME for startup companies" on 21-10-2022 at JNTUA Anantapur for the faculty and students of JNTUA Anantapur. The speaker is Sri. Satish Yadav, Asst. Director, MSME, New Delhi.

CONFERENCES and SEMINARS ATTENDED: 16

TRAINING PROGRAMMES and WORKSHOPS ATTENDED: 12

PAPERS PUBLISHED: 24 (National -16, International – 08)

BOOK CHAPTERS PUBLISHED: 07

NO. OF PH. D'S SUPERVISED: 2

LIST OF PUBLICATIONS

1. Kasoju, Aruna & Munawar, T. & Narsu, M. (2013). Optimisation Studies for the Immobilization of Oligonucleotide Probe on Silica Nanoparticles. *International Journal of Advanced Biotechnology Research*. 3. 9-17.
2. Aruna. "Prediction of Three –dimensional Structure." *Bioinformation –Pub Med Publishers*, no. 0973–2063, pp. 684–86.
3. Kasoju, Aruna & Narlawar, Sagar & Shahdeo, Deepshikha & Khan, Azmat & Alanazi, Amer & Gandhi, Sonu. (2020). Microfluidic paper device for rapid detection of aflatoxin B1 using an aptamer based colorimetric assay. *RSC Advances*. 10. 11843-11850. 10.1039/D0RA00062K.
4. Kasoju, Aruna & Shahdeo, Deepshikha & Khan, Azmat & Narlawar, Sagar & Mahari, Subhasis & Alanazi, Amer & Bhat, Mashooq & Giri, Jyotsnendu & Gandhi, Sonu. (2020). Fabrication of microfluidic device for Aflatoxin M1 detection in milk samples with specific aptamers. *Scientific Reports*. 10. 4627. 10.1038/s41598-020-60926-2.
5. Kasoju, Aruna & Munawar, T.. (2019). HEAVEY METALS ANALYSIS IN SOIL AND WATER SAMPLES OF SMALL VILLAGES OF NORTH COASTAL, UDDANAM MANDAL, ANDHRA PRADESH, INDIA CAUSING CHRONIC KIDNEY DISEASE. 363-366.
6. Kasoju, Aruna Prediction of three –dimensional structure *Bio information –Pub med publishers* pp. 684-686 no.0973-2063.
7. Kasoju, Aruna Studies on production of keratinase from different keratin substrates using *bacillus licheniformis* *International journal of pharmaceutical research and development* 0974 – 9446.
8. Kasoju, Aruna "Production, purification and characterization of alkaline protease from *Aspergillus terreus* AB661667. *International Journal of Advanced Research* 1522-0222.
9. Kasoju, Aruna Identification of m-RNA and their goals. *Journal of Bio information* Pp. 98-103 no. 0973-2063
10. Kasoju, Aruna ANALYSIS OF INDIA'S POVERTY, HEALTH, AND INTELLECTUAL PROPERTY RIGHTS *Dogo Rangsang Research Journal* Pp. 164-177 ISSN : 2347-7180 Vol-12 Issue-04 No. 01 April 2022
11. Kasoju, Aruna, A STUDY OF HOW PATENT AND TRADE SECRET POLICIES WORK TOGETHER *JOURNAL OF MANAGEMENT & ENTREPRENEURSHIP* ISSN : 2229-5348, Vol. 16, No.2 (XIII), April - June 2022 pp.88-94
12. Kasoju, Aruna, THE IMPORTANCE OF TRADE SECRETS: EMPIRICAL RESEARCH AND NEW DIRECTIONS IN INTERNATIONALTRADE POLICY *ANVESAK* ISSN : 0378 – 4568 pp.65-72
13. Kasoju, Aruna, Fabrication of microfluidic device for Aflatoxin M1 detection in milk samples with specific aptamers. 10, article number 4527(2020). Author correction: An amendment to this paper has been published -JUNE 2020 *Scientific Reports –Nature*

Research Highly prestigious journal 11843-11850.

14. Kasoju, Aruna, Microfluidic paper device for rapid detection of aflatoxin B1 using an aptamer based colorimetric assay.,2020 The Royal Society of Chemistry Advances. (RSC) Citations- 28 pp. 363-366
15. Kasoju, Aruna, Heavy metals analysis in soil and water samples of small villages in North costal, Uddanammandal, Andhra Pradesh. India causing chronic kidney disease. Asian Journal of Research in Chemistry and Pharmaceutical Sciences. 7(2), 2019, 363-366. Citations-1 pp.915-922.
16. Kasoju, Aruna, Current Status on Single Cell Protein (SCP) Production from Photosynthetic Purple Non Sulphur Bacteria, Journal of chemical and pharmaceutical sciences pp. 70-79
17. Kasoju, Aruna, Biosensors in Biological Analysis of Mycotoxins Asian Journal of Biochemical and Pharmaceutical Research Issue 4(Vol. 8) pp. 1-6
18. Kasoju, Aruna, Heavy Metal Analysis in soil samples of Some Villages Near Uranium Corporation of India Limited Thummalapalle using Wavelength-Dispersive X- ray Fluorescence Spectrometry. International Journal of Advanced Research Volume 4, Issue 7.
19. Kasoju, Aruna, Purification and Characterization of cholesterol oxidase from novel native isolate Bacillus subtilisYSO1,1578- 1588, 2017 International of Biology, pharmacy and allied sciences ISSN-2277-4998.
20. Kasoju, Aruna, Surface modification of silicananoparticles for immobilize probe DNA to identify aspergillus flavus
21. Kasoju, Aruna, Optimisation Studies for the Immobilization of Oligonucleotide Probe on Silica Nanoparticles International journal of Advanced Biotechnology research 2249-3166 pp.9-17
22. Kasoju, Aruna, Prediction of three –dimensional structure. Bio information –Pub med publishers 0973-2063 pp.684-686.
23. Kasoju, Aruna, In silico identification of miRNAs and their targets from the expressed sequence tags of Raphanus sativus Bio information Volume 8(2) 11843-11850.
24. Kasoju, Aruna, Surface modification of silica nanoparticles International ICANMEET (IEEEE XPLORE) 978-1-4799-1377-0.

Sl. No.	Title of the Research Paper	Name of the Journal	Vol., PP No. & Year	Impact Factor*	Number of authors	Type of Authorship(First author/corresponding author/principal/co-author)
25	Analysis of drug investigation of Anti melanomal effect of Ipomea pestigrids I, silver nanoparticles production by green synthesis	Journal of Drug and ALCOHOL Research	2024, volume 13.	3.09	2	Corresponding
26	Assessment of Anti oxidant capacity and cytotoxic activity of Ipomea pes tigridis	Tropical journal of Natural product Research	20247965 to 7989	0.143	2	Corresponding
	An over view of Analytical Techniques used for characterization of bimetallic nanoparticles	Frontiers in health informatics (Scopus)	2024, volume 13, issue 3	0.2	5	1 st
27	Biogenic Silica Nanoparticles from Arachis hypogaea Shell Waste: Synthesis, Characterization and Agricultural Applications	International Journal of Scientific Research in Chemical Sciences	Vol[12 Feb-2025	-	4	4
28	Vanillin Pramipixole Schiff's base metal complexes :DNA binding studies	South Easton European journal of public health	(ISSN: 2197-5248) Volume XXVII	3.9	5	Corresponding

Awards:

S.No	Title of the Award/Fellowship Received	Year of Award	International /National / State / University level	Name of the Agency or Body granting the award/Fellowship
1	Visiting Scientist Fellowship – IIT Hyderabad	2016	National	(Academic Bodies) INSA New Delhi
2	Visiting Scientist Fellowship – NIAB – National Institute Of Animal Biotechnology – Hyderabad	2019	National	INSA New Delhi

3. BEST PAPER AWARD FOR Surface modification of Nano materials at International conference-2013, with Certificate of excellence
4. Association/Society Memberships -2- National
 - 1.Proteomics Society- CCMB - Hyderabad
 - 2.Biotechnology Society of India – University of Delhi – Delhi

IPR COORDINATOR TO THE university JNTUA,

INTERESTS : START UP ECOSYSTEM, TECHNOLOGY TRANSFER , iIPR