



Kandati Kusuma

Research Scholar

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About me

I am an experienced research professional with a background in the life sciences, committed to advancing medical knowledge and improving healthcare outcomes through research. My passion lies in using data-driven approaches to explore the complexities of human health and disease.

Education

Ph.D. in Biotechnology **Apr 2022 - Present**

Sri Padmavati Mahila Visvavidyalayam, Tirupati

Masters of Science in Biotechnology – 80% **Jun 2016 - Jul 2021**

Sri Padmavati Mahila Visvavidyalayam, Tirupati

Research Experience

1. **Project trainee** **Jul 2021- Apr 2022**

Dr. Buddolla's Institute of Lifesciences, Tirupati

Major accomplishments

- ✓ Learned various laboratory techniques such as PCR, DNA extraction, AGE, PAGE, Western blot, and bacterial identification.
- ✓ Developed expertise in using microscopy and other imaging techniques to study microorganisms.
- ✓ Assisted in the design, execution, and analysis of research projects in the field of microbiology and molecular biology.
- ✓ Collaborated with other trainees to develop and present master's projects.
- ✓ Gained experience in writing scientific reports and presenting research results.
- ✓ Presented research findings in the form of technical papers, poster presentations, and seminars.
- ✓ Developed an understanding of the fundamentals of nanotechnology, including particle synthesis, processing, and characterization.
- ✓ Learned proper safety protocols for handling mice and zebrafish of all sizes, breeds, and species.

2. **Internship** **Dec 2020 – Jul 2021**

Dr. Buddolla's Institute of Lifesciences, Tirupati

Major accomplishments

- ✓ Isolation and screening of probiotic microorganisms
- ✓ Isolation, production, and partial purification of bacteriocin
- ✓ In vivo analysis using zebrafish
- ✓ Antioxidant activity and ROS scavenging

3. **Intern** **May 2019 - Jun 2019**

S.L.S Cell Cure Technologies, Hyderabad

1-month experience of training in various Molecular biology Techniques

4. **Intern** **Jun 2020 - Aug 2020**

CSIR, Summer Research Training Program, online coordinated by CSIR-NEIST, Jorhat.

Publications

1. **Kandati, Kusuma**, Ankireddy Seshadri Reddy, John Sushma Nannepaga, and Viswanath Buddolla. "The Influence of Probiotics in Reducing Cisplatin Toxicity in Zebrafish (Danio rerio)" *Current Microbiology* (2023).
2. **Kandati Kusuma**, Praveen Belagal, John Sushma Nannepaga, and Viswanath Buddolla. "Role of probiotics in the management of cervical cancer: An update." *Clinical Nutrition ESPEN* (2022).
3. **Kandati Kusuma**, Praveen Belagal, Viswanath Buddolla, & Sai Gopal. "Lessons learned from the first pandemic of the 21st century, global experience, recommendations, and future directions". In *Pandemic Outbreaks in the 21st Century* (pp. 1-9). Academic Press (2021).
4. **Kandati Kusuma**, Vijay Paul, & Viswanath Buddolla. "Middle East respiratory syndrome: outbreak response priorities, treatment strategies, and clinical management approaches". In *Pandemic Outbreaks in the 21st Century* (pp. 111- 122). Academic Press (2021).

Awards/Honours

- Received **Andhra Pradesh State Government Best Student of the year-2023** award from the Chief Minister.
- Received **1st prize for oral presentation** at The International Conference on Global Trends in Applied Sciences, Medical, and Health Sciences organized by REVA University.
- The findings of our publication titled "The Influence of Probiotics in Reducing Cisplatin Toxicity in Zebrafish (Danio rerio)" have been published as **Current Science Reports** in the issue of May 10, 2023.

Symposiums/Conferences

- Received **1st prize** for presenting a paper entitled "The influence of probiotics in reducing cisplatin toxicity in zebrafish" at **The International Conference on Global Trends in Applied Sciences**, Medical and Health Sciences organized by REVA University, Bangalore. (Oct 28 & 29, 2022)
- Delivered an oral presentation on "Biofunctional Carbon Dots Derived from Pomegranate Fruit Peel Extract: Synthesis and Applications in Biotechnology" at **A Two-Day International Conference on "Materials-Properties, Measurements, and Applications"** organized by Fatima Mata National College, Kerala. (May 9th to 13th 2022)
- Delivered an oral presentation on "Pomegranate fruit peel mediated polyphenol functionalized carbon dots for biological applications" at **A Two-Day International Conference on "Advances in Smart Nano Materials"** organized by Govt. City College(A), Hyderabad (March 24 & 25 2022)
- Presented a poster on "The role of probiotics in the management of cervical cancer" in a seminar on **Recent Trends in Science & Technology: Scope for Innovations** organized by NSS Unit 1X, NSS BUREAU & Department of Biotechnology, Sri Padmavati Mahila Visvavidyalayam, Tirupati. (28th February 2023)
- Presented a poster presentation entitled "Synthesis and characterization of MgO nanoparticles" in the **International Seminar on Recent Advances in Emerging Technologies and Its Impact on Biological Sciences** organized by Vikrama Simhapuri University, Nellore. (Dec 23 & 24, 2019)
- Received **2nd prize** for presenting a poster on "Plastic Waste in Marine Ecosystem" in the **National Consultation on the Role of Science and Technology in National Development** organized by The Indian Science Congress Association Tirupathi Chapter & Siddhartha Institute of Engineering & Technology, Puttur. (Mar 21 & 22, 2017)

References

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Declaration

I, solemnly declare that the above information provided is true to the best of my knowledge and I bear the responsibility for correctness.

(Kandati Kusuma)