

Personal Information

Name	Dr. Anna Tanuja Safala Bodapati
Years of Experience	Teaching: 17 Years Research: NIL Industry: NIL
Email Id	tanujasafala.b@bvrithyderabad.edu.in
Areas of Specialization	Biophysical Chemistry



Educational Qualifications

Doctoral Degree	Ph.D.	Chemistry
PG Degree	M.Sc.	Physical Chemistry
UG Degree	B.Sc.	Botany, Zoology, Chemistry

List of Research Publications:

Journal Publications

- 1.*Bodapati, A. T. S., Sahoo, B. K., Ragaiahgari, S. R., Kandikonda, L., & Madku, S. R. (2022). Deciphering the nature of binding of dexlansoprazole with DNA: Biophysical and docking approaches. *International Journal of Biological Macromolecules*, 217, 1027-1036. <https://doi.org/10.1016/j.ijbiomac.2022.07.177> (IF-8.2)
- 2.*Bodapati, A. T. S., Reddy, R. S., Lavanya, K., Madku, S. R., & Sahoo, B. K. (2023). A comprehensive biophysical and theoretical study on the binding of dexlansoprazole with human serum albumin. *Journal of Molecular Liquids*, 380, 121777. <https://doi.org/10.1016/j.molliq.2023.121777> (IF-6)
3. Madku, S. R., Sahoo, B. K., Lavanya, K., Reddy, R. S., & Bodapati, A. T. S. (2023). DNA binding studies of antifungal drug posaconazole using spectroscopic and molecular docking methods. *International Journal of Biological Macromolecules*, 225, 745-756. <https://doi.org/10.1016/j.ijbiomac.2022.11.137> (IF-8.2)
4. Lavanya, K., Saranya, J., Bodapati, A. T. S., Reddy, R. S., Madku, S. R., & Sahoo, B. K. (2023). Biophysical insights on the interaction of anticoagulant drug dicoumarol with calf thymus-DNA: deciphering the binding mode and binding force with thermodynamics. *Journal of Biomolecular Structure and Dynamics*, 1-12. <https://doi.org/10.1080/07391102.2023.2199872> (IF-5.3)
- 5.Lavanya, K., Babu, P.V., Bodapati, A. T. S., Reddy, R. S., Madku, S. R., & Sahoo, B. K. (2023). Binding of dicoumarol analog with DNA and its antioxidant studies: A biophysical insight by in-vitro and in-silico approaches. *International Journal of*

Biological Macromolecules, 244, 125301.
<https://doi.org/10.1016/j.ijbiomac.2023.125301> (IF-8.02).

6. T Ramesh., B Sravanthi., G Umadevi., K Ramaiah., B Anna Tanuja Safala., T Suneetha. A comparative study of antibacterial, anticancer and gas-sensing properties of zinc oxide nanostructures synthesized by different routes. Journal of Materials Science: Materials in Electronics, 34, 19. <https://doi.org/10.1007/s10854-022-09442-9> (IF-2.8).

7. *Bodapati, A. T. S., Reddy, R. S., Lavanya, K., Madku, S. R., & Sahoo, B. K. (2023). Minor groove binding of antihistamine drug bilastine with calf thymus DNA: A molecular perspective with thermodynamics using experimental and theoretical methods. Journal of Molecular Structure, 137385. <https://doi.org/10.1016/j.molstruc.2023.137385> BVRIT HYDERABAD, SCI (IF 3.8)

8. Lavanya, K., Babu, P. V., Bodapati, A. T. S., Reddy, R. S., Madku, S. R., & Sahoo, B. K. (2024). Steady-state and 3D fluorescence study reveals the binding of a dicoumarol analogue in subdomain IIA of human serum albumin with structural variation. Journal of Molecular Structure, 1298, 137032. <https://doi.org/10.1016/j.molstruc.2023.137032> BVRIT HYDERABAD, SCI (IF 3.8)

9. Reddy, R., Bodapati, A.T., Madku, S.R., Lavanya, K., & Sahoo, B. K. (2023) Experimental and Theoretical Studies on the Binding of Anticonvulsant and Neuroprotective Drug Riluzole in Calf-Thymus DNA. Russian Journal of Physical Chemistry A, 97, 2903–2914. <https://doi.org/10.1134/S0036024423120233> BVRIT HYDERABAD, SCIE, Scopus (IF-0.791).

International Conference Publications

1. Ms. V. Madhavi et. al and Ms. B. Anna Tanuja Safala on 'Biogenic Silver nano particles by Luffa accutangula peel extracts and their antibacterial activity' with paper code 090in International Conference on Recent Trends in Engineering and Science held during 20th to 21st February 2018.
2. Ms. B. Anna Tanuja Safala et. al and Ms. V. Malathi on 'Water Hyacinth - Sustainable Applications' held during 11th to 13th July 2016, Organised by ICRACACE - 2016at JNTUH

National Conference Publications

1. Ms. V. Madhavi et. al and Ms. B. Anna Tanuja Safala on 'Chemical synthesis and characterization of iron based nano and micro particles' with page no 153-155 in the Third National Conference on Applied Physics and Materials Science held during 7th and 8th August 2015.

Certification courses

1. Completed online certification Course through edX platform on Deep learning through transformative pedagogy.
2. Completed online certification Course through Coursera platform on Understanding Research Methods
3. Completed online certification Course through ELSEIVER on Fundamentals of manuscript preparation
4. Completed online certification Course through Udemy platform on Spectroscopy Master Classes.

FDP's Attended

1. One week Faculty development Programme (Funded by the Ministry of HRD ,Govt of India) on Surface engineering of Nanomaterials through NPTEL online certification course with Elite certificate .
2. Two week Faculty development Programme organized by Centre for Entrepreneurship Development (CED) ,Hyderabad in association with NSTEDB ,Govt.of India
3. Three-day Workshop “To Train the Trainers for implementation of Induction program in the Affiliated colleges of JNTUH organized by TEQIP –III JNTUH on 17th to 19th May 2018
4. Three-day workshop on “Scientific educational practices at VEIDC, SVES from 14th to 16th April 2016.
5. National Conference on Materials for specific applications under TEQIP-II during 29th to 30th March’2016 organized by Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad.
6. International Conference on Environment and Energy ICEE 2014 held on 15th -17th December 2014 at JNTU HYDERABAD.
7. one day National level Workshop on “Emerging Trends in Nanotechnology” organized by CMR Engineering College, Hyderabad held on 24th August 2013.
8. One day IEEE-WIE Colloquium on “Arise, Awake and Act on Crime Against Women” organized by BVRIT HYDERABAD College of Engineering for Women, Bachupally held on 7th February’2013
9. Attended 2nd International Conference on Water and Waste Management along with 10 Students during 17-19 February 2020.
10. Attended FDP conducted by GRIET ,Hyderabad on Trends in Corrosion Chemistry and Drug Discovery held on 27 Jan 2020.
11. Completed Level Two Certification in Tide –Turners Plastic Challenge

12. One Day Swachhta Action Plan Online Workshop Conducted Mahatma Gandhi National Council of Rural Education Department of Higher Education Ministry of Human Resource Development, Government of India
13. Attended FDP on Sustainability Commitment in Educational Campus organized by center for Science and Environment
14. “Emerging Trends in Sciences - Usage of Research Tools and Techniques” organized by Vardhaman College of Engineering
15. Completed Five Days Online Faculty Development Program On ‘Mentoring and Facilitation Skills for Institutional Social Responsibility and Community Engagement’ June 24-28, 2020 .
16. Attended National webcast: Recent Advances in Modern Analytical Techniques during 22nd June to 24th June 2020
17. Workshop on NMR Spectroscopy Software Genesin of Educational Impressions Roorkee, Uttarakhand, India
18. Participated in the workshop on “Writing Literature Review Article : Weekend” presented by Mr. Daniel C, Director, Manuscriptpedia, Jointly organized by Cape Institute of Technology, Levingipuram and Manuscriptpedia On 16th May, 2020 through online pedagogy.
19. Participated in One Week Faculty Development Program on “Emerging Trends in Sciences - Usage of Research Tools and Techniques”, organised by Department of Freshman Engineering, Vardhaman College of Engineering, Hyderabad, during 15th – 20th June, 2020. Your participation in this event is highly appreciable.
20. Participated and successfully completed the online workshop on Universal Human Value on the theme “Inculcating Universal Human Values in Technical Education” during 24-28 August, 2020 as organized by All India Council for Technical Education (AICTE).

Books & Book Chapter

1. Konkanchi, R., Vemula, M., & Safala, B. A. T. (2022). EGFR and HER2 Target-Based Molecular Docking Analysis—Computational Study of Metal Complexes. In Communication, Software and Networks: Proceedings of INDIA 2022 (pp. 191-202). Singapore: Springer Nature Singapore.