

Dr. Sudha C. Angadi

Designation: Asst. Professor

Education: M.Sc. Karnataka University Dharwad, 2004
Ph.D. Karnataka University Dharwad, 2013

Research Area: Drug Delivery and Pharmacodynamics.

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Research Interests

Drug delivery, Pharmacokinetics, Pharmacodynamics.

The main purpose of using a drug delivery system (DDS) is not only to deliver a biologically active compound in a controlled manner (time and releasing rate) without altering its original properties, but also to maintain the drug concentration in the body within therapeutic window.

My research interest is to develop nano, microparticles and microbeads for controlled release of various drugs and investigating the release properties of drugs from polymeric drug delivery systems by using **UV, FTIR, DSC, TGA, SEM, TEM and tablet dissolution tester.**

Successfully completed the Minor research project on “Chitosan based matrix for controlled release of drugs” which was sanctioned by UGC Delhi from 2015-2017.

Future Plans: Developing Chitosan derivatives for effective controlled release of short acting drugs

Details of Project

Sl. No	Title of the project	Period	Funding Agency	Amount sanctioned	Amount released	Status
1.	Chitosan based matrix for controlled release of drugs	February, 2015 To January, 2017	UGC	5,00,000 = 00	5,00,000 = 00	Completed

List of publications

1. [Interpenetrating polymer network blend microspheres of chitosan and hydroxyethyl cellulose for controlled release of isoniazid](#)
SC Angadi, LS Manjeshwar, TM Aminabhavi
International journal of biological macromolecules 47 (2), 171-179 [IF=5.162]
2. [Novel composite blend microbeads of sodium alginate coated with chitosan for controlled release of amoxicillin](#)
SC Angadi, LS Manjeshwar, TM Aminabhavi
International Journal of Biological Macromolecules 51 (1-2), 45-55 [IF=5.162]
3. [Stearic acid-coated chitosan-based interpenetrating polymer network microspheres: controlled release characteristics](#)
SC Angadi, LS Manjeshwar, TM Aminabhavi
Industrial & Engineering Chemistry Research 50 (8), 4504-4514 [IF=3.573]
4. [Coated interpenetrating blend microparticles of chitosan and guar gum for controlled release of isoniazid](#)
SC Angadi, LS Manjeshwar, TM Aminabhavi
Industrial & Engineering Chemistry Research 52 (19), 6399-6409 [IF=3.573]
5. [Chitosan-magnesium aluminium silicate nanocomposite microspheres coated with poly\(vinyl acetate phthalate\) for controlled release of capecitabine.](#)
SC Angadi, LS Manjeshwar, TM Aminabhavi
Advanced Materials Proceedings. 3 (9), 550-557

Academic achievements/awards

- I was awarded the **Research Fellowship in Sciences for meritorious students under UGC (2009)** by Karnataka University, Dharwad, India.
- **Best poster presentation award** in International Conference on Current Trends in Chemistry and Biochemistry held at Central College Campus Bangalore on 18th and 19th Dec 2009.
- **Young scientist award** for best poster presentation in in the 30th Annual Conference of the Indian Council of Chemists held at Usmania University, Hyderabad on 28th-30th December, 2011.
- **Best paper award at** International Conference on Advanced Materials and Technology (ICMAT-16) on 26th to 28th May 2016 at SJCE Mysore.
- **Achiever of the year** on January 26th 2017 by **Rashtreeya Shikshana Samiti Trust.**

Papers Presented at National and International Scientific Assemblies

- Attended the 45th Annual Convention of Chemists and International Conference on Recent Advances in Chemistry held by Indian Chemical Society. November 23-27, 2008.
- Paper presented at International Conference on Current Trends in Chemistry and Biochemistry held at Central College Campus Bangalore on 18th and 19th Dec 2009. **(First Prize for Poster Presentation)**
- Attended the National Seminar on Recent Advances in Chemistry held by UGC at P.G. Dept of Studies in Chemistry KUD, 18-3-2010.
- Paper presented in the 30th Annual Conference of the Indian Council of Chemists held at Usmania University, Hyderabad on 28th-30th December, 2011. **(Young Scientist Award for the Best Poster Presentation in Pharmaceutical Chemistry Section)**
- Attended the State level Conference on “Science and Technology for Societal Transformation” jointly organized by Karnataka Science and Technology Academy and Dayanand Sagar Institutions during 19th & 20th December, 2012.
- Attended International Conference on Materials Science & Technology on 1st -04th March, 2016 at Conference Centre, University of Delhi, India
- Attended International Conference on Advanced Materials and Technology (ICMAT-16) on 26th to 28th May 2016 at SJCE Mysore.
- Attended one day workshop on “**Institutional Quality Improvement: An Overview from NAAC Perspective**” on 9th December 2014 organized by Internal Quality Assurance Cell at NMKRV College for Women, Jayanagar 3rd Block, Bangalore-560011.
- Attended and interacted in two day workshop on “**Quality initiatives for NAAC assessment**” on 13th & 14th of June 2014, conducted by Education Management Service under the aegis of Internal Quality Assurance Cell (**IQAC**) at NMKRV College for Women, Jayanagar 3rd block, Bangalore-560011.

- Attended and interacted in two day workshop on “Transforming Higher Education Through Academic and Administrative Audit” on 3rd and 4th February, 2017, conducted by IQAC at NMKRV College for Women, Jayanagar 3rd block, Bangalore-560011.
- Attended “Science Academies’ Lecture Workshop” on “ Organic Chemistry from Bench to Industry” on 14th-15th March 2017 organized by P.G-Department of Chemistry, NMKRV College for Women, Sponsored by Joint Science Education Panel, Indian Academy of Sciences, C.V. Raman Avenue, Bengaluru.