

NAME OF THE FACULTY

Professor

Dept. of Pharmaceutics
Gokaraju Rangaraju College of Pharmacy,
Osmania University, Bachupally, Kukatpally
Hyderabad – 500 090, AP, India

Email: gyatibit@gmail.com
Phone: 8374789982



Research Interests:

- Nanotechnology based drug delivery systems for gene delivery.
- Gastro-retentive drug delivery system and its systematic optimization.
- Formulation and evaluation of Biodegradable and Mucoadhesive Microspheres.
- Formulation Development of Vesicular drug delivery systems.
- Topical Niosomal gel-based drug delivery systems.
- Formulation and evaluation of Micro-emulsion for poorly soluble drugs.

Education:

1. Ph D. [2011], Pharmaceutical Sciences, Department of Pharmaceutical Sciences, Dr. Hari Singh Gour Vishwa Vidyalaya (**Central University**), Sagar (M.P.), India
2. M. Pharmacy [2000-2002], Pharmaceutical Biotechnology, Pharmaceutical Sciences, Department of Pharmaceutical Sciences, Dr. Hari Singh Gour Vishwa Vidyalaya (**Central University**), Sagar (M.P.), India
3. B. Pharmacy [1996-2000], Pharmaceutical Sciences, Department of Pharmaceutical Sciences, Dr. Hari Singh Gour Vishwa Vidyalaya, Sagar (M.P.), India

Total Experience: 15.4 years' experience in Research, Industry and Academics

Research Funding:

1. Awarded Junior Research Fellowship by University Grants Commission, Ministry of Human Resources, Government of India, 2000 -2002
2. Awarded Senior Research Fellowship by Indian Council of Medical Research New Delhi, 2005 -2008.
3. Received **CICS International travel support** for presentation of research paper in **42nd Annual Meet and Exposition**, at international conference of **CRS at Edinburgh**, Scotland UK, Scheduled on **26-29 July 2015**.
4. Completed two consultancy research projects of 1.0 lakh rupees each **sponsored** by Horizon Bioceuticals Pvt. Ltd.

Professional Recognition, Awards, Achievements:

1. Received **Eudragit Award 2014 from Evonik**, Germany for best research paper entitled “*QbD-Enabled Systematic Development of Gastroretentive Multiple-unit Microballoons of Itopride Hydrochloride*. Drug Delivery (2014).”
2. Received Appreciation award for best performance in year 2013-2014 by MMCP, MM university, Ambala, Haryana.
3. Received Appreciation award for best performance in year 2014-2015 by MMCP, MM university, Ambala, Haryana.
4. Google citation **251** and Scopus **h index 8** as on 29th January 2019.

Representative Publications:

International: 45

1. **Gyati Shilakari Asthana**, Abhay Asthana, Dharm Veer Kohli, S.P.Vyas, “ Mannosylated Chitosan Nanoparticles For Delivery Of Antisense Oligonucleotides For Macrophage Targeting” Biomed Research International, Vol 2014, Article ID 526391, 1-17 pages.(IF 2.88), Hindawi Publishing Corporation.
2. **Gyati Shilakari Asthana**, Sumit Sharma, Abhay Asthana, Formulation And Evaluation Of Alginate-Based Mucoadhesive Buccal Patch For Delivery Of Antimigraine Drug, Asian J Pharm Clin Res, Vol 11, Issue 4, 2018, 1-7.
3. **Gyati Shilakari Asthana**, Parveen Kumar Sharma and Abhay Asthana, *In Vitro* and *In Vivo* Evaluation of Niosomal Formulation for Controlled Delivery of Clarithromycin, Communicated in Scientifica, (Hindawi Publishers) Vol 2016, 1-10, 2016.

4. **Gyati Shilakari Asthana**, Abhay Asthana, Davinder Singh and Parveen Kumar Sharma, Etodolac Containing Topical Niosomal Gel: Formulation Development and Evaluation, Journal of Drug Delivery (Hindawi Publishers) Volume 2016 (2016), Article ID 9324567.
5. O.P. Sunnapua, Niranjan G. Kotlaa, Balaji Maddiboyina, **Gyati Shilakari Asthana**, J. Shanmugapriya, Karuppanan Sekarg, Subramanian Singaravadivel and Gandhi Sivaraman “Rhodamine based effective chemosensor for Chromium (III) and their application in live cell imaging. *Sensors and Actuators B Chemical* 2017,246, 761-768.
6. Rina Das, **Gyati S. Asthana***, Krishan A. Suri, Dinesh Mehta, Abhay Asthana. Recent developments in azole compounds as antitubercular agent. Mini review in organic Chemistry, 16(3), 2019, DOI : 10.2174/1570193X15666180622144.
7. Sanjay Bansal, Sarwar Beg, Abhay Asthana, Babita Garg, **Gyati Shilakari Asthana**, Rishi Kapil, Bhupinder Singh, *QbD-Enabled Systematic Development of Gastroretentive Multiple-unit Microballoons of Itopride Hydrochloride*. Drug Delivery2015 Jul 21:1-15.

Patents:

1. Advanced Oral Polysaccharide Based Colon Specific Drug Delivery System. File No. 3809/DEL/2015. (Published)
2. Advancement In Gastroretentive Drug Delivery System. File No. 201611028379. (Published)
3. Antitubercular, antibacterial and antifungal pyrazinyl-1, 3, 4-oxadiazolo-1, 3, 5-triazolo-thiol and method of preparation of the same thereof. File No. 2678/DEL/2015(Published)

Books:

1. Fundamentals In Colon Targeted Novel Oral Drug Delivery Technology Basic aspects in designing novel strategies for colon targeted drug delivery. Scholar Press.

Conference Publications:

International:	16
National:	22

1. **Gyati Shilakari Asthana**, Abhay Asthana, “Formulation Development And Evaluation Of Ultra deformable Cationic Liposomes For Delivery Of oligonucleotides. 42nd Controlled release Society conference; Published online CRS website 2015 (controlledreleasesociety.org).
2. **Gyati Shilakari Asthana**, Abhay Asthana, Dharm Veer Kohli, Suresh Prasad Vyas ‘Preparation and Characterization of Chitosan Nanoparticles for Delivery of Oligonucleotides’ World Academy of Science, Engineering and Technology International Journal of Pharmacological and Pharmaceutical Sciences Vol:9, No:2, 2015 [ICPP 2015:17th International Conference on Pharmacy and Pharmacology Conference, London, United Kingdom].
3. **Gyati Shilakari Asthana**, Abhay Asthana ‘Formulation Development and Characterization of Oligonucleotide Containing Chitosan Nanoparticles’ World Academy of Science, Engineering and Technology International Journal of Biotechnology and Bioengineering Vol:9, No:7, 2015 [ICBPS 2015 : 17th International Conference on Bioengineering and Pharmaceutical Sciences Conference Location : London, United Kingdom
4. Abhay Asthana, **Gyati Shilakari Asthana**; Polymeric Sustained Biodegradable Patch Formulation for Wound Healing; World Academy of Science and technology, International Journal of Medical, Health, Biomedical, Bioengineering and Pharmaceutical Engineering Vol:9, No:7, 2015
5. Abhay Asthana, Shally Toshkhani, **Gyati Shilakari** ‘Development of Biodegradable Wound Healing Patch of Curcumin’ World Academy of Science, Engineering and Technology International Journal of Pharmacological and Pharmaceutical Sciences Vol:9, No:2, 2015 [ICPPS 2015: 17th International Conference on Pharmacy and Pharmaceutical Sciences Conference Location : London, United Kingdom]

Invited Lectures: 02

Professional Activities:

Member, Editorial board and advisory board of Annals of Drug discovery Biomedical Research, International Journal of Pharmacy and Life Sciences.

Reviewer of research and articles for Drug Development and Industrial Pharmacy, British Journal of

Pharmaceutical research British Journal of Applied Sciences and Technology. Medicinal Chemistry Research, Biomedical Research journal, Journal of Pharmaceutical Research International, Journal of International Research in Medicinal and Pharmaceutical Sciences, Asian Journal of Physical and Chemical Science,

Life Member of the Following National Societies:

1. Life member Indian Pharmaceutical Association, IPA [MP/IND/LM/0087; dated 31/03/2004]
2. Registered Pharmacists from M.P. State of Pharmacy Council

Research Guidance:

1. Ph. D.: 03 students
2. M. Pharmacy: 15 students
3. B. Pharmacy: 20 projects