

Dr. Monika Nijhawan

Associate Professor

Dept. of Pharmaceutical sciences

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### **Research Interests:**

My main research interest lies within Crystal Engineering and nanotechnology. Specific areas of interest in this field include: Cocrystallization, Spherical Crystallization, Polymorphism, Solvatropism, Nanocrystals to improve physicochemical properties of drug molecule. I am interested to improve my knowledge in different analytical technique such as DSC, PXRD, Scanning electron microscopy, NMR in order to characterize crystals.

### **Education:**

1. Ph.D [2009-2015] : JNTUH Hyderabad, A.P, India

2. M. Pharmacy [2002-2004]: Pharmaceutics, Guru Jambheshwar University, Hisar, Haryana, India

3 B.Pharmay [1997-2001]: Guru Jambheshwar University, Hisar, Haryana, India

### **Experience:** 14.6 years

- Working as an Assistant professor from July 2006 to Jan 2018, and Associate professor from Feb 2014 till date in Gokaraju Rangaraju College of pharmacy Hyderabad.
- Worked as lecturer at Baba Mastnath University from July 2004 upto July 2006.

### **Research Funding:**

Cocordinator, "Pharmaceutical cocrystal of BCS class II drugs for improved physicochemical properties funded by AICTE, File No 20 /AICTE/ RIFD/RPS (Policy III) 103/2012-13 dated 07/03/2013.

### **Professional Recognition, Awards, Achievements:**

Qualified GATE in 2001 with 93.4 percentile

### **Representative Publications:**

1. Monika Nijhawan, A. Santhosh, P. R. Sathesh Babu, and C. V. S. Subrahmanyam. Solid state manipulation of lornoxicam for cocrystals – physicochemical characterization (DDIP)
2. Kharwade M, Nijhawan M, Modani S. Nanorobots: A Future Medical Device in Diagnosis and Treatment Research Journal of Pharmaceutical, Biological and Chemical Sciences. RJPBCS, 2013:4 (2), 1299.
3. Modani S, Kharwade M, Nijhawan M. Quantum Dots: A Novelty of Medical Field with Multiple Applications, Int J Curr Pharm Res, 2013:5(4), 55-59.
4. Monika Nijhawan, Tejaswini Remidi, P. R. Sathesh Babu, and C. V. S. Subrahmanyam. Physicochemical evaluation of irbesartan cocrystals with salicylic acid and adipic acid, International Journal of Pharmaceutics, ISSN: 2051-5782, 2014: 30(2), 1198-1204.
5. Monika Nijhawan, P. R. Sathesh Babu, and C. V. S. Subrahmanyam. Cocrystals of irbesartan with hippuric Acid, Indo American Journal of Pharmaceutical Research, ISSN: 2231-6876, 2015: 5(04), 1323-1329.

### **Conference Publications:**

1. Presented poster on crystal habit modifications of nabumetone and their physicochemical characteristics at national conference. 63 rd IPC, 2011, Bangalore, India.
2. Given oral presentation in National Conference on Irbesartan cocrystals using liquid assisted grinding INNOVATE I3 at Malla Reddy college of pharmacy, Hyderabad, India.

3. Given oral presentation on Crystal engineering to improve the physicochemical properties of irbesartan; at International Conference on progress and Advances in Human Health Management and Health Care Reforms (ADICON-2014), October 11-12, 2014.

**Faculty development program**

- Foundation program in ICT for education (Online conducted by IIT Bombay from 3<sup>rd</sup> Aug 2017 Sep-7<sup>th</sup> 2017 )
- Pedagogy for online and Blended Teaching and learning process (Online conducted by IIT Bombay 14<sup>th</sup> Sep-12<sup>th</sup> Oct 2017)

**Life Member of the Following National Societies:**

1. Association of Pharmaceutical Teachers of India (AP/LM – 654)
2. Pharmacy Council of India GRHLEC000021