

Dr.CEEMA MATHEW  
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**Research Interests: [100 WORDS]**

Interested in developing novel analytical methods for new molecules and drugs in new combinations, using different analytical instruments such as UV, HPLC and Spectrofluorimeter. As per ICH recommendation, development and validation of stability indicating assay methods are mandatory and hence it is one of the key area of interest. For Multi component samples, analytical methods can be developed using derivative spectroscopy, simultaneous equation method, absorbance ratio method etc. Already existing methods can be modified so as to get more cost effective methodology by minimising the use of organic solvents or replacing them with hydrotropic reagents. Application of Chemometrics for the estimation of multielemental samples is another major area of interest.

**Education:**

- 1.Ph.D in pharmaceutical sciences (2010-2018), JNTUH, Hyderabad.
- 2.M.Pharmacy [2000-2002]: Quality Assurance, Goa college of Pharmacy, Goa University, Panaji, India
- 3.B.Pharmacy [1994-1999]:Department of Pharmaceutical Sciences, Mahatma Gandhi university, Kottayam, Kerala

**Work experience**

Total teaching experience: 15 years

**Professional Recognition, Awards, Achievements:**

1. **12th Dr. P. D. Sethi Annual Award- For Best Paper in Pharma Analysis (2<sup>nd</sup> best paper)**  
A Green approach for the Simultaneous Estimation of Gatifloxacin and Flurbiprofen by a very Sensitive Spectrofluorimetric Method". Published in: ISOR Journal of Pharmacy and Biological, Volume: 11, Year: 2016, Pages: 60-66.
2. Awarded best poster - RIPE (Reforms and innovations in pharmacy education towards global standards)2012,CPS,IST,JNTUH,Hyderabad, for A validated stability indicating RP-HPLC method for Balofloxacin.

**Representative Publications: [Selected 7 publications only]**

- 1.**Ceema Mathew**, Ajitha M, Sathesh Babu PR. Development and validation of a stability indicating RP-HPLC method for Balofloxacin. Oriental Journal Of Chemistry 2014;30:1919-23.
- 2.**Ceema Mathew**, M. Ajitha , P.R.Sathesh Babu.Cefpodoxime Proxetil: A New Stability Indicating RP-HPLC Method.ISRN Chromatography,Volume 2013, Article ID 328157, 8 pages.<http://dx.doi.org/10.1155/2013/>
- 3.**Ceema Mathew**, Suman Naik Bhukya, Ajitha M, Sathesh Babu PR. A green analytical method for the simultaneous estimation of Levofloxacin Hemihydrate and Ambroxol Hydrochloride using hydrotrophy and first derivative UV spectroscopy. Oriental Journal Of Chemistry 2014;30:1385-9.
- 4.**Ceema Mathew**, Ajitha M, Sathesh Babu PR. An economical stability indicating RP-HPLC method for the simultaneous analysis of Ofloxacin and Tinidazole. Indo American Journal of Pharmaceutical Research 2015;5:2803-13.
- 5.**Ceema Mathew**, Suman Naik Bhukya, Ajitha Makula, Sathesh Babu Puvvadi R. A green analytical method for the simultaneous analysis of Cefixime trihydrate and Ambroxol HCl based on Ultraviolet derivative spectroscopy, Drug Development and Therapeutics 2015;6:74-8.
- 6.**Ceema Mathew**, Nikitha Mala, Ajitha Makula, Sathesh Babu Puvvadi. A green approach for the simultaneous estimation of Gatifloxacin and Flurbiprofen by a very sensitive spectrofluorimetric method. IOSR Journal of Pharmacy and Biological Sciences 2016;11:60-6.
- 7.**Ceema Mathew**, Swathi, B, Ajitha, M. & Sathesh Babu P.R. Development and validation of a new and economical stability indicating RP-HPLC method for cefixime trihydrate, Brazilian Journal of Pharmaceutical Sciences 2016;52(1), 87-94.

**Conference Publications: [**

- 63 rd Indian Pharmaceutical Congress (IPC) held at Bangalore on 17<sup>th</sup> -19<sup>th</sup> Dec 2011.
- National conference on Reforms and innovations in Pharmacy education towards global standards (RIPE-12) held at JNTUH in the year 2012.

- National conference on Applications of advanced analytical techniques in Pharmaceutical sciences and nanotechnology (RIPE-12) held at JNTUH in the year 2016.
- AICTE sponsored National level seminar, INNOVATE-13, held at Pulla Reddy institute of pharmacy,Hyderabad) in the year 2013.
- AICTE sponsored National level seminar, Qbd approaches in analytical method development for pharmaceutical formulations, held at Gokaraju Rangaraju college of pharmacy,Hyderabad:2017.
- Completed AICTE approved Faculty Development Programme on foundation Program in ICT for education. (conducted by IIT Bombay: 2018).
- Completed AICTE approved Faculty Development Programme on Pedagogy for online and blended Teaching – learning process. (conducted by IIT Bombay: 2018).

#### poster presentations

1. 63rd IPC,2012, Bengaluru,India.**Ceema Mathew**, M. Ajitha, B. Swathi,M.Swetha. A validated stability indicating RP-HPLC method for Cefixime trihydrate.
2. RIPE (Reforms and innovations in pharmacy education towards global standards)2012,CPS,IST,JNTUH,Hyderabad,**Ceema Mathew**, M. Ajitha, P.R.Sathesh Babu.A validated stability indicating RP-HPLC method for Balofloxacin.(Awarded best poster)
3. 65th IPC,2013, Delhi, India.**Ceema Mathew**, B.Suman, B.Prany,S.santhoshiVani, A validated spectrofluorimetric method for balofloxacin

#### oral presentations

Innovate 13,2013,Pulla Reddy Institute of Pharmacy,Annaram, Hyderabad,  
Ceema Mathew, M. Ajitha, P.R.Sathesh babu.Development and validation of a stability indicating RP-HPLC method for Doripenem.

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