

Name: Venkat Panchagnula
 Division: Chemical Engineering
 Email: v.panchagnula@ncl.res.in
 Phone: 020-2590-2194; 2590-2621 (fax)
 Website: <http://ldi-ms.com>



Education and experience **Ph.D.** Chemistry (2005) **University of Connecticut**, Storrs CT USA.
M.Sc. Chemistry (1998) **University of Hyderabad**, Hyderabad India
B.Sc. Chem., Math. & Physics (1996), **Osmania University**, Hyderabad India

Previous Experience

July 2007 – Scientist: **National Chemical Laboratory, Pune India**
2009 - DBT Ramalingaswamy Fellow
2006 – 2007 Postdoctoral fellow, **CSIRO Australia**
2005 – 2006 Postdoctoral Scientist, **PerkinElmer Life Sciences, Boston, MA USA**

Research Areas Work in our group is highly interdisciplinary with inputs from bioanalytical, physical, bio chemistries. Surface and materials chemistry based approaches are used to address challenges in bio separations, mass spectrometry, metabolomics, protein encapsulation & delivery. Students will get a chance to explore many emerging areas and will be involved in external collaborations. A strong will to learn and apply is essential more than any conventional background. Current requirement is for students with M.Sc. in life sciences / microbiology / biotechnology / analytical or physical chemistry / pharmaceutical sciences. Should be comfortable in math/statistics. Strong interpersonal and communication skills are a must.

Recent publications

- A. Singh, N. Bhattacharya, A. Ghanate and **V. Panchagnula**, “Rapid and direct quantitation of pharmaceutical drugs from urine using MALDI MS” Accepted, In Print, **LC GC North America, Current Trends in Mass Spectrometry 2012**
- V. Tamhane, D. Dhaware, N. Khandelwal, A. P. Giri and **V. Panchagnula**, “Enhanced permeation, leaf retention, and plant protease inhibitor activity with bicontinuous microemulsions”, **Journal of Colloid and Interface Science** 383 (2012) 177–183
- A. Singh and **V. Panchagnula**, “High throughput quantitative analysis of melamine and triazines by MALDI-TOF MS” **Analytical Methods**, 2011, 3, 2360–2366
- “Selective detection and analysis of small molecules”, Inventors: Venkateswarlu Panchagnula, Deepika Dhaware, Dipankar Ghosh, Indian and PCT applications filed in February 2012 (PCT/IN2012/000113).

Current students being supervised

- i. Deepika Dhaware, M.Sc. Organic Chemistry (Pune University)
- ii. Ajeet Singh, M.Sc. Analytical Chemistry (IIT Roorkee)
- iii. Nivedita Bhattacharya, M.Sc. Microbiology (Calcutta University)
- iv. Avinash Ghanate, M.Tech, Biotechnology (IBB, Pune University)
- v. Dharmesh Parmar, M.Pharm. (NIPER Hyderabad)
- vi. Hussain Hebatullah, M.Sc. Biotech (IBB, Pune University)
- vii. Ch. Kalyan, M.Sc. Organic Chemistry (Osmania University, Hyderabad)
- iii. Preshita Pushp, M.Sc. Biotech (VIT, Vellore)