MOHANA KRISHNA REDDY MUDIAM **BRIEF *RESUME***

Principal Scientist
Analytical Department
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- 17 years of experience in analytical chemistry and 2 years in medicinal chemistry
- Experience in Mass Spectrometry based Metabolomics
- Scientific Panel Member on "Contaminants in Food Chain" of FSSAI, New Delhi
- Qualified NABL Technical Assessor in Chemical Sciences
- BOYSCAST Fellow in Medicinal Chemistry
- Young Scientist Award at ICEHT-2012 held at Tirupati
- Experience in analytical method development & validation of toxicants/analytes/ metabolites in pharmaceutical formulations, biological and food matrices
- Two years experience in the multistep organic synthesis of bioactive compounds
- Extensive skills in analytical characterization and data interpretation
- Hands-on experience on **GC/MS/MS** (Quantum XLS, Thermo Scientific), **GC/MS** (TurboMass, Perkin Elmer), **GC** (Auto System XL and Claurus 500, Perkin Elmer), **HPLC** (LC-10AT, Shimadzu), **HPTLC** (CAMAG), **CE** (Prince Technologies), SPE, SPME (Supelco), **SPPS** (Protein Technologies), **LC-ESI-MS** (Esquire 3000 Plus, Bruker) and **LC-QqQ-MS** (API 4000, AB SCIEX)
- Provided training to students and scientists of various organizations on major equipments like CE, GC, HPLC and GC-MS
- Academic Editor, **PLoSONE**
- Editorial Board Member, **Austin Journal of Analytical and Pharmaceutical Chemistry**
- Experience in the area of Nano-Molecularly Imprinted Polymers **(Nano MIPs)**

Education and Professional Qualifications:

- **15th Oct-15th Dec, 2014: Visiting Scientist** in CSIRO Land & Water, Waite Campus, Urrbrae, Adelaide, Australia.

- **2007 – 2008: Visiting Scientist** in Medicinal Chemistry, SKCCC at Johns Hopkins University, Baltimore, USA.

- **2001–2005: Ph.D.** in Biochemistry in Central Forensic Science Laboratory, (Osmania University), Hyderabad, India. **Thesis**: Biochemical analysis of opium (*Papaver somniferum L*) latex and its application in source identification

- **1997-1999: M.Sc.** in Organic Chemistry, Regional Engineering College (Now upgraded to National Institute of Technology), Warangal, India.

PROJECTS as PI (In Hand/Completed): 05 (One Indo-Aus Project)
PROJECTs as Co-PI (In Hand/Completed): 08
PhDs awarded: 06; PhD students working: 08; Publications: 81

Selected publications:

1. Satyajeet Rai, Madhuri Devi Gullapalli, Anshuman Srivastava, Hussain Shaik, Mohammed Haris Siddiqui, **Mohana Krishna Reddy Mudiam***. A quick and rapid method for the quantitative determination of 34 pesticides in non-alcoholic carbonated beverages using liquid-liquid extraction coupled to dispersive solidphase cleanup followed by gas chromatography-tandem mass spectrometry. **Journal of AOAC International**, 2017, 100(3), 624-630. (IF: 0.918)
2. Arvind Kumar Shukla, Ch Ratnasekhar, Prakash Pragya, Hitesh Singh Chaouhan, Devendra Kumar Patel, Debapratim Kar Chowdhuri, **Mohana Krishna Reddy Mudiam***. Metabolomic analysis provides insights on paraquat induced Parkinson-like symptoms in Drosophila Melanogaster. **Molecular Neurobiology**, 2016 (*Cover page article*, *Corrected proof available online*). (IF: 5.397)
3. Ratnasekhar Ch, Madavi Sonane, Aruna Satish, **Mohana Krishna Reddy Mudiam***. Metabolomics reveals the perturbations in the metabolome of *Caenorhabditis elegans* exposed to titanium dioxide nanoparticles. **Nanotoxicology**, 2015, 9(8), 994-1004. (IF: 7.913)
4. **Mohana Krishna Reddy Mudiam***, Ratnasekhar Ch. Ultra sound assisted one step rapid derivatization and dispersive liquid-liquid microextraction followed by gas chromatography-mass spectrometric determination of amino acids in complex matrices. **Journal of Chromatography A**, 2013, 1291, 10-18. (IF: 3.926)

The detailed list of publications can be viewed at
https://scholar.google.co.in/citations?hl=en&user=0fUd3KEAAAAJ&view_op=list_works&sortby=pubdate