

Curriculum Vitae

Mrunali Ramesh Patil

- **Summary:**

A motivated researcher with hands on experience in, analytical chemistry and synthetic chemistry aspire to use knowledge and skills for improvement and enlargement of pharmaceutical field.

Educational Qualifications			
Degree	University	Year	Percentage (%)
M.S.(Pharm.) (Medicinal Chemistry)	National Institute of Pharmaceutical Education and Research (NIPER), Mohali	2016	8.50 /10 CGPA
B. Pharmacy	NMU University, Jalgaon	2014	80.92 (Second Rank in North Maharashtra University)
HSC	Nasik Board	2010	68.33
SSC	Nasik Board	2008	78.00

- **Professional Experience:**

- **Industrial Experience:** 2 years as a Research Assistant in Bio-analytical section in Drug Metabolism and Pharmacokinetics Department (DMPK) at *Sai Life Sciences Limited*, Pune, Maharashtra.

- **Masters Research Project:**

The title of the research project was *Synthesis of 2-substituted 4-arylquinolines as potential anti-tuberculosis agents*. It involved a synthesis of various 4-arylquinoline scaffolds by using menisci reaction and their coupling with protected L-amino acids by conventional as well as microwave synthesis. Further biological evaluation was carried out for series of protected and de-protected arylquinolines.

- **Academic Achievements Awards and Honors:**

- Secured **AIR 50** in NIPER -JEE 2014
- Secured **AIR 1563** in GPAT-2014 (Exam conducting body-AICTE)
- Recipient of Postgraduate fellowship from NIPER during M.S.(Pharm.) course (2014-2016)

- Recipient of *Excellence Award 2014 (IPA-MSB)* for securing second highest percentage of marks in North Maharashtra University Jalgaon.
- *R.C. Patel Excellence Award 2012-13* for securing Second Rank at the North Maharashtra University Jalgaon and Second Rank at the Institute
- *R.C. Patel Excellence Award 2013-14* for securing Second Rank in the Institute.
- Recipient of *Aptinyx Appreciation Initiative Award 2016* in recognition to the outstanding performance and lasting contribution in advancing Aptinyx programs.

- **Conferences & Workshops:**

- Active volunteer in Indo-US conference on Molecular modeling and informatics in drug design (M²ID²) (3rd-6th Nov.2014) held at NIPER Mohali.
- Active volunteer in International Symposium on Recent Advances in Medicinal Chemistry,(ISRAM) 8th -10th Sept 2014,organized by NIPER Mohali.
- 2nd Pharmaceutical Industry-Institute Interaction summit held at R.C. Patel Institute of pharmaceutical education and research (RCPIPER), Shirpur.
- Active volunteer in State Level Seminar on Basics in Spectroscopy and Chromatography held at R.C. Patel Institute of pharmaceutical education and research (RCPIPER),(7th Oct 2012), Shirpur.
- Participated in *District level Avishkar 2013* organized by Z. B. Patil College, Dhule (5th Oct 2013)

- **Scientific Skills:**

- Bio-analytical Method Development & validation of biological samples using triple quadruple LC-MS/MS for application in pharmacokinetics and drug metabolism studies to support drug discovery and development.
- Sample processing using protein precipitation, liquid-liquid extraction and solid phase extraction techniques for pharmacokinetics (PK) and metabolite identification (MetId) studies.
- To handle AB SCIEX API 4000 LCMS (Analyst 1.6.3) WATERS ACQUITY UPLC System.
- To provide ESI-MS, MS/MS, LC-MS/MS support to Medicinal chemistry & formulation department
- Develop and assist the DMPK *In-Vitro* assays such as- Liver microsomes & hepatocytes incubation for metabolite profiling, metabolic stability, CYP induction-inhibition assays, solubility, PAMPA, CaCO₂ permeability assay and monitor *In-Vivo* studies to support DMPK related activities.

- Assistance in setup for overall lab practices in metabolomics and preparation of SOP'S, Protocols, development and validation of reports for new analytical method.
- Preparation and review of Bio analytical reports and presentations.
- Expertise in carrying out various organic reactions
- Purification of organic compounds using crystallization, column chromatography, preparative TLC, Flash chromatography, Analytical and Preparative HPLC
- **Instruments Handled:**
 - HPLC (Shimadzu)
 - LCMS/MS API 4000 (AB SCIEX)
 - SPE cartridges
 - Kubota centrifuge
 - Eppendorf centrifuge
 - UV Spectrophotometer
 - Scientific microwave oven
- **Computer proficiency:**
 - MS Office (MS word, PowerPoint, Excel etc.)
 - Scientific data retrieval from various internet portals like Science direct, PubMed, Google Scholar
 - Software Handled: Chem Bio draw Ultra, Mendeley Desktop, Endnote X, Analyst 1.6.3
- **Extracurricular activities:**
 - Involved in various stage activities like anchoring, dramas.
 - Organizing committee member during 2015-16 in Inter-NIPER Sports Event 'Spandan' held at NIPER Mohali.
- **Personal Details:**
 - Date of birth: 18th July 1993
 - Sex: female
 - Permanent address: Plot No-4, Talathi colony Bhadgaon road Pachora, Dist- Jalgaon (M.S) 424201.
 - Mobile no: +91 -9646708909
 - Email : mrunalipatil188@gmail.com
 - Languages known: English, Hindi, Marathi

I hereby declared that the information furnished above is true to the best of my knowledge and belief.

Mrunali Ramesh Patil