

**Name:** Sonam Patel

**Department:** Pharmaceutical Analysis

**Contact Address:** JSS college of Pharmacy, Ooty

**Email ID:** sonamp106@gmail.com



**Educational Qualification:** M. Pharm (Pharmaceutical Analysis)

**Year of Registration:** 2015

**Project Supervisors:** Dr. N Krishnaveni,  
Professor & Head,  
Department of Pharmaceutical Analysis,  
JSS College of Pharmacy, Ooty

**Research Abstract:**

**“Isolation, Characterization and Genotoxic Evaluation of Degraded Product from Anti-Retroviral Agents”**

Based on the structural considerations and the side effects of the anti-retro viral agents Viz: non-nucleoside reverse transcriptase inhibitor (Rilpivirine-), and integrase inhibitors (Raltegravir) were selected for the study.

- To develop a validated LC/MS and LC/MS/MS method that accurately and precisely measures API's free from potential interferences like degradants, by-products, intermediates and excipients for the selected drug candidates [Rilpivirine, Raltgravir,
- To enrich the degradation products in the samples and their isolation by semi preparative HPLC and characterization by sophisticated analytical methods viz LC-MS/MS and FT NMR.
- Performance of genotoxicity studies for the isolated and characterized degradation products formed during the stress degradation studies.

**Fellowships:** ICMR Senior Research Fellowship

**Awards & Scholarships:**

- Awarded ICMR Senior Research Fellowship for the project entitled **“Structural identification and characterization of the degraded products from anti- retroviral agents by LC-MS/MS and evaluation of its genotoxicity by bacterial reverse mutation assay method”** with Letter No. 45/06/2018-BIO/BMS/dt 11.04.2018.
- Awarded DST-WOS-A Women Scientist Fellowship for the project entitled **“Isolation, Characterization, Synthesis and Genotoxic study of degraded products from Antiretroviral”** with letter No. SR/WOS-A/LS-658/2016 dt/11-07-2018.

**Way Forward:** (Drop few line (NMT 50 words) to describe where do you position yourself in 5 years)

My goal right now is to find a good position at Research and Development department in reputed organization where I can grow and take on new challenges over time. Ultimately, I had like to assume more responsibilities and get involved in good research strategy. But most importantly, I want to work for an organization where I can build a career.