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Research Abstract: Enantiomers of drug substances may have distinct biological interactions and consequently, different pharmacological, pharmacokinetic or toxicological activities. Therefore it is very important to develop stereo selective analytical methods, to characterize the individual drugs with respect to the issue associated with pharmacology, toxicology and pharmacokinetics during the drug development processes. Thus this work is very keen in developing newer rapid, accurate, precise, sensitive and reliable HPLC and LC-MS methods for the separation of selected racemic drugs (Midodrine and Mefloquine), checking the stability of separated enantiomers by forced degradation studies and to estimate the + and – enantiomers in their formulations.

Way Forward: I want to establish myself as a Research Scientist in the field of Analytical Research and Development in the Pharmaceutical industry with special emphasis towards Chiral Analytical Techniques.