

## Analytical Methods in Pharmaceutical Sciences

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### Editor Note

Pharmaceutical analysis is a branch of chemistry that deals with the identification, determination, quantification and purification of a compound or substance, or separation of the components from a solution or mixture and determination of structure of chemical compounds using Chemical, Electrical, Instrumental, Biological and microbiological methods. Pharmaceutical analysis is the heart of the pharmaceutical industries.

Pharmaceutica Analytica Acta is an open access, peer reviewed international journal that publishes scientific articles related to advancements in pharmaceutical analysis methods. In volume 7 issue 6 of the journal 10 research articles of top quality were published.

In a unique study Mahmoud et al. detected the presence of  $\omega$ -3 fatty acid in *Corchorus olitorius* Linn for the first time by using accurate mass gas chromatography quadrupole time of flight mass spectrometry (GCQTOF) in electron ionization (EI) and chemical ionization (CI) modes. They found that the concentration of  $\omega$ -3 fatty acids are far too high when compared with any other vegetables [1]. González et al. analyzed the antioxidant activity of Soursopfruit's (chloroform, methanol-acetone) extracts and acetogenin fraction by measuring total soluble phenolic compounds. Authors found that chloroform extract and acetogenin fraction had higher antioxidant capacity than aqueous extracts [2].

Madhavi et al. studied the efficacy of microspheres in drug delivery. Authors prepared and optimized eudragit coated chitosan piroxicam microspheres for treating rheumatoid arthritis. They concluded that drug release kinetics of microspheres followed korsmeyer peppas model indicating the drug diffusion from polymer matrix [3].

Raveendra et al. developed an UV spectrophotometric method for estimating Roflumilast in human serum [4]. Tabassum et al. in their research article concluded that the interaction of rosuvastatin with ACE inhibitors consumes the active reacting sites of Rosuvastatin making it an anti-inflammatory and analgesic. So authors suggested that Rosuvastatin should not be administered along with ACE inhibitors [5].

Permender et al. statistically presented a novel quality by design (QbD) methodology for analyzing Nisoldipine quantitatively for pharmaceutical dosage forms [6]. Singh et al. in their studies

developed HPTLC method for quantifying various phytoconstituents present in *Cuscutacampestrisyuncker* (Cuscutaceae) plant [7]. Seema et al. developed a simple, rapid, precise and accurate HPLC validation method for estimating Pregabalin in bulk drugs and in capsule dosage forms [8]. Maria et al. concluded that effective utilization and evaluation of adaptive drug resistance can encounter multidrug resistance pathogens [9]. Copelli et al. studied about the actuator performance by using integrated multivariate approach [10].

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