

List of Selected Publications:

1. Wahajuddin, Raju KS, **Singh SP**, Taneja I. Investigation of the functional role of P-glycoprotein in limiting the oral bioavailability of lumefantrine. *Antimicrob Agents Chemother*. 2014 Jan;58(1):489-94. PMID: 24189249.
2. Taneja I, Erukala M, Raju KS, **Singh SP**, Wahajuddin. Dried blood spots in bioanalysis of antimalarials: relevance and challenges in quantitative assessment of antimalarial drugs. *Bioanalysis*. 2013 Sep;5(17):2171-86. PMID: 23962252.
3. Subramanian M, Paruchury S, Singh Gautam S, **Singh SP**, Arla R, Pahwa S, Jana S, Katnapally P, Yoganand V, Lakshmaiah B, Mazumder Tagore D, Ghosh K, Marathe P, Mandlekar S. Characterization of recombinantly expressed rat and monkey intestinal alkaline phosphatases: in vitro studies and in vivo correlations. *Drug Metab Dispos*. 2013 Jul;41(7):1425-32. PMID: 23633529.
4. **Singh SP**, Wahajuddin, Raju KS, Ali MM, Kohli K, Jain GK. Reduced bioavailability of tamoxifen and its metabolite 4-hydroxytamoxifen after oral administration with biochanin A (an isoflavone) in rats. *Phytother Res*. 2012 Feb;26(2):303-7. PMID: 22131128.
5. *Wahajuddin, ***Singh SP**, Raju KS, Nafis A, Jain GK. Simultaneous determination of nine model compounds in permeability samples using RP-HPLC: application to prove the cassette administration principle in single pass intestinal perfusion study in rats. *J Pharm Biomed Anal*. 2012 Aug-Sep; 67-68:71-6. doi: 10.1016/j.jpba.2012.03.048. Epub 2012 Apr 11. PMID: 22613582. (***Equal contribution**)
6. *Wahajuddin, ***Singh SP**, Jain GK. Gender differences in pharmacokinetics of lumefantrine and its metabolite desbutyl-lumefantrine in rats. *Biopharm Drug Dispos*. 2012 May;33(4):229-34. PMID: 22447530. (***Equal contribution**)
7. Kallem R, Kulkarni CP, Patel D, Thakur M, Sinz M, **Singh SP**, Mahammad SS, Mandlekar S. A simplified protocol employing elacridar in rodents: a screening model in drug discovery to assess P-gp mediated efflux at the blood brain barrier. *Drug Metab Lett*. 2012 Jun 1;6(2):134-44. PMID: 23061481
8. **Singh SP**, Wahajuddin, Ali MM, Kohli K, Jain GK. Liquid chromatography-mass spectrometry method for the quantification of tamoxifen and its metabolite 4-hydroxytamoxifen in rat plasma: application to interaction study with biochanin A (an isoflavone). *J Chromatogr B Analyt Technol Biomed Life Sci*. 2011 Oct 1;879(27):2845-51. PMID: 21890435.
9. **Singh SP**, Wahajuddin, Tewari D, Pradhan T, Jain GK. PAMPA permeability, plasma protein binding, blood partition, pharmacokinetics and metabolism of formononetin, a methoxylated isoflavone. *Food Chem Toxicol*. 2011 May;49(5):1056-62. PMID: 21266188.

10. **Singh SP**, Wahajuddin, Tewari D, Patel K, Jain GK. Permeability determination and pharmacokinetic study of nobiletin in rat plasma and brain by validated high-performance liquid chromatography method. *Fitoterapia*. 2011 Dec;82(8):1206-14. PMID: 21888953.
11. *Wahajuddin, ***Singh SP**, Raju KS, Nafis A, Puri SK, Jain GK. Intravenous pharmacokinetics, oral bioavailability, dose proportionality and in situ permeability of anti-malarial lumefantrine in rats. *Malar J*. 2011 Oct 10;10:293. PMID: 21985153; (***Equal contribution**)
12. **Singh SP**, Wahajuddin -. Intravenous pharmacokinetics and oral bioavailability of biochanin A in female rats. *Medicinal chemistry research*. 2011; 20(9):1627-1631.
13. *Wahajuddin, ***Singh SP**, Singh SK, Jain GK. Quantitation of Lumefantrine in Biological Matrices. *Current Pharmaceutical Analysis*. 2011; 7(1):42-46. (***Equal contribution**)
14. **Singh SP**, Wahajuddin, Ali MM, Jain GK. High-throughput quantification of isoflavones, biochanin A and genistein, and their conjugates in female rat plasma using LC-ESI-MS/MS: Application in pharmacokinetic study. *J Sep Sci*. 2010 Nov;33(21):3326-34. PMID: 21049521.
15. **Singh SP**, Wahajuddin, Yadav DK, Rawat P, Maurya R, Jain GK. Quantitative determination of formononetin and its metabolite in rat plasma after intravenous bolus administration by HPLC coupled with tandem mass spectrometry. *J Chromatogr B Analyt Technol Biomed Life Sci*. 2010 Feb 1;878(3-4):391-7. PMID: 20034859.
16. **Singh SP**, Wahajuddin, Jain GK. Determination of Curcumin in Rat Plasma by Liquid-liquid Extraction using LC-MS/MS with Electrospray Ionization: Assay Development, Validation and Application to a Pharmacokinetic Study. *J Bioanal Biomed* . 2010; 2:079-084.
17. **Singh SP**, Singh RS, Wahajuddin, Jain GK. Development and validation of a rapid, sensitive liquid chromatography-tandem mass spectrometry method using electrospray ionization for quantitation of centchroman in rat plasma and its application to preclinical pharmacokinetic study. *J Chromatogr B Analyt Technol Biomed Life Sci*. 2008 Dec 1;876(1):1-7. PMID: 19004674.

Patent: BIOACTIVE FRACTIONS AND COMPOUNDS FROM DALBERGIA SISSOO FOR THE PREVENTION OR TREATMENT OF OSTEO-HEALTH RELATED DISORDERS. Europe 2012147102 Issued November 2, 2012.