

List of publications (2005-2008)

1. Design, synthesis and evaluation of tetrahydropyran based COX-1/-2 inhibitors. Palwinder Singh, Atul Bhardwaj, Satwinderjeet Kaur, Subodh Kumar. **Eur. J. Med. Chem.** **2008**, DOI: 10.1016/j.ejmech.2008.08.008.
2. 2,3-Diaryl-5-ethylsulfanylmethyl tetrahydro furans as a new class of COX-2 inhibitors and cytotoxic agents. Palwinder Singh, Anu Mittal, Satwinderjeet Kaur, Wolfgang Holzer, Subodh Kumar. **Org. & Biomol. Chem.** **2008**, 6, 2706-2712.
3. Mechanism of action of key enzymes associated with cancer propagation and their inhibition by various chemotherapeutic agents. Palwinder Singh, Atul Bhardwaj. **Mini Reviews in Medicinal Chemistry**, **2008**, 8 (4), 388-398.
4. 2,3,5-Substituted tetrahydrofurans: COX-2 inhibitory activities of 5-hydroxymethyl-/carboxyl- 2,3-diaryltetrahydrofuran-3-ols. Palwinder Singh, Anu Mittal, Satwinderjeet Kaur, Subodh Kumar. **Eur. J. Med. Chem.** **2008**, DOI: 10.1016/j.ejmech.2007.12.017.
5. 1-Toluene-sulfonyl-3-[(3'-hydroxy-5'-substituted)- γ -butyrolactone]-indoles: Synthesis, COX-2 inhibition and anti-cancer activities. Palwinder Singh, Anu Mittal, Atul Bhardwaj, Satwinderjeet Kaur, Subodh Kumar. **Bioorg. Med. Chem. Lett.** **2008**, 18, 85-89.
6. Design, synthesis and anti-cancer activities of Schiff bases of 5-benzoyl-/5-carbaldehyde-/5-(3-phenyl-acryloyl)-6-hydroxy-1H-pyrimidin-2,4-diones. Palwinder Singh, Jatinder Kaur, Kamaldeep Paul. **Ind. J. Chem. (Org. Chem including Med. Chem.)** **2008**, 47B, 291.
7. Current status of COX-2 inhibitors. Palwinder Singh, Anu mittal. **Mini Reviews in Medicinal Chemistry**, **2008**, 8 (1), 73-90.
8. 2, 3, 5-Substituted tetrahydrofurans as cancer chemopreventives. Part 1: Synthesis and anti-cancer activities of 5-hydroxymethyl-2,3-diaryl-tetrahydro-furan-3-ols. Palwinder Singh, Anu Mittal and Subodh Kumar. **Bioorg. Med. Chem.** **2007**, 15, 3990-3996.

9. Syntheses and anti-cancer activities of 2-[1-(indol-3-yl-/pyrimidin-5-yl-/pyridine-2-yl-/quinolin-2-yl)-but-3-enylamino]-2-phenyl-ethanols. Palwinder Singh, Pervinder Kaur, Vijay Luxami, Satwinderjit Kaur and Subodh Kumar. **Bioorg. Med. Chem.** **2007**, 15, 2386-2395.
10. Anti-cancer activities of 5-acyl-6-[2-hydroxy/benzyloxy-3-(amino)-propylamino]-1,3-dialkyl-1H-pyrimidin-2,4-diones. Palwinder Singh and Kamaldeep Paul. **Bioorg. Med. Chem.** **2006**, 14, 8622-8625.
11. 5-Substituted-2,3-diphenyltetrahydrofurans: A new class of moderately selective COX-2 inhibitors. Palwinder Singh, Anu Mittal, Satwinderjeet Kaur and Subodh Kumar. **Bioorg. Med. Chem.** **2006**, 14, 7910-7916.
12. Studies of interactions between uracil-based hybrid molecules and P-glycoprotein-Search for multi drug resistance modulators. Palwinder Singh and Kamaldeep Paul. **Bioorg. Med. Chem.** **2006**, 14, 7183-7186.
13. Synthesis of pyrazole based hybrid molecules: Search for potent multidrug resistance modulators. Palwinder Singh, Kamaldeep Paul and Wolfgang Holzer. **Bioorg. Med. Chem.** **2006**, 14, 5061-5071.
14. 2,3-Diphenyltetrahydrofurans (DPTF)-A new class of stereogenic diaryl heterocycles as potential COX-2 inhibitors- computational evaluation of COX-2-DPTF binding behavior. Palwinder Singh, P. Kaur, Anu and S. Kumar. **Ind. J. Chem., Sect. B.** **2006**, 45B, 1692-1698.
15. A practical approach for the synthesis of spirobarbituric acids and 5-monoalkylated barbiturates. Palwinder Singh and Kamaldeep Paul. **J. Het. Chem.** **2006**, 43, 607-612.
16. Regio- and stereochemical aspects in synthesis of homoallylic alcohols from benzoin and their iodocyclisations to 2,3-diphenyltetrahydrofurans. Subodh Kumar, Pervinder Kaur, Anu and Palwinder Singh. **Tetrahedron**, **2006**, 4018-4026.

17. The unique chlorine effect in regioselective one-pot synthesis of 1-alkyl-/allyl- 3-(o-chlorobenzyl) uracils: Anti HIV activity of selected uracil derivatives. Vaishali Malik, Palwinder Singh and Subodh Kumar. **Tetrahedron**, **2006**, 62, 5944-5951.
18. *De-novo* approach for a unique spiro skeleton-1,7-ioxo-2,6-dioxospiro[4.4]nonanes. Palwinder Singh, Anu, Pervinder Kaur and Subodh Kumar. **Tetrahedron**, **2006**, 1063-1068.
19. A facile synthesis of 5-acylbarbituric acids under microwave irradiations. Palwinder Singh and Kamaldeep Paul. **Ind. J. Chem., Sect.B**, **2005**, 44B (5), 1105.
20. Regioselective synthesis of 1-allyl- and 1-arylmethyl uracil thymine derivatives. Vaishali Malik, Palwinder Singh and Subodh Kumar. **Tetrahedron**, **2005**, 61, 4009-4014.
21. Regio- and stereochemical aspects in synthesis of 2-allyl derivatives of glycolic, mandelic and lactic acids and their iodocyclisations to 3-hydroxy-3,4-dihydrofuran-2-(5H)-ones. Pervinder Kaur, Palwinder Singh, Subodh Kumar. **Tetrahedron**, **2005**, 61, 34, 8231-8240.
22. Synthesis of 5-acyl-6-[2-hydroxy-3-(amino)-propylamino]-1,3-dialkyl-1H-pyrimidin-2,4-diones. Palwinder Singh, K. Paul and W. Holzer. **Org. & Biomol. Chem.** **2005**, 3, 3958-3965.
23. Multi Drug Resistance: An obstacle to the successful chemotherapy of cancer-Its mechanism and remedies via MDR modulators. Palwinder Singh and K. Paul. **Natl. Acad. Sci. Lett.**, **2005**, 11-12, 365-372.