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Research interest : 1) Biochemical aspects of plant enzyme inhibitors lectins.
2) Glycosidases

Research papers : 1) Purification and characterization of a trypsin inhibitor from the seeds of *murraya koenigii*. International journal of pharma and bio sciences ,vol.3,,2, 2012. Tejas s.kulkarni and **sushma g.sabharwal**

2) Proteinaceous alpha amylase inhibitor from *macrotyloma uniflorum* seeds: in vitro and in vivo studies with *spodoptera litura*. J.of entomolgical research. 36(1), 9-13, 2012. **Sushma g. Sabharwal** and aditi n. Devanhalli

3) Larvicidal activity of the α -amylase inhibitor from the seeds of *macrotyloma uniflorum* (leguminosae) against *aedes aegypti* (diptera:culicidae). International journal of tropical insect science vol. 31, no. 1–2, pp. 69–74, may 2011.**laxmi h. Gupta**, sudhakar deshpane, vrushali tare and **sushma g. Sabharwal**.

4) Ethanolic Extract of Cinnamon Potentiates in vitro PPAR. Reporter activity in presence of PGC1and SRC1 and Improves Glucose Tolerance in Mice. Vol. 2(2), pp.046-057 February, 2011.**Rajesh Gupta**, Sameer Walunj, Shyam Awteb, Roshan Kulkarni, Swati Joshi, **Sushma Sabharwal**, A. S. Padalkar and Kalpan Joshi.

5) Antidiabetic potential of α amylase inhibitor from the seeds of *Macrotyloma uniflorum* in streptozotocin-icotinamidem induced diabetic mice. Volume 49, Number 2, 2011 , pp. 82-189(8). Laxmi H. Gupta, Sachin L. Badole, Subhash L. Bodhankar, **Sushma G. Sabharwal**.

6) Isolation Identification and Media optimization of thermostable alpha gactosidase producing geobacillus sp. Research J of Chemistry and environment. vol. 14(3),22-26, 2010. Chavan Sanjay and **Sabharwal Sushma**.

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A. S. Padalkar

- 8) Intramolecular reductive cyclization strategy to the synthesis of (-)-6-methyl-3-hydroxy-piperidine-2-carboxylic acid, (+)-6-methyl-(2-hydroxymethyl)-piperidine-3-ol and their lysozyme inhibitory activity. *Bioorganic and Medicinal Chemistry* 18 (2010) 7799–7803.