

Publications:

- Ranjan R, Srivastava A, Bharti R, Ray L, **Singh Jyotsna**, Misra A. Preparation and optimization of a dry powder for inhalation of second-line anti-tuberculosis drugs. *Int J Pharm.* 2018 Aug 25; 547(1-2):150-157. doi: 10.1016/j.ijpharm.2018.05.065. Epub 2018 May 28.
- **Singh Jyotsna**, Chaudhari BP, Kakkar P. Baicalin and chrysin mixture imparts cyto-protection against methylglyoxal induced cytotoxicity and diabetic tubular injury by modulating RAGE, oxidative stress and inflammation. *Environ Toxicol Pharmacol.* 2017 Mar; 50:67-75. doi: 10.1016/j.etap.2017.01.013.
- **Singh Jyotsna**, Kakkar P. Oroxylin A, a constituent of *Oroxylum indicum* inhibits adipogenesis and induces apoptosis in 3T3-L1 cells. *Phytomedicine.* 2014 Oct 15; 21(12):1733-41. doi: 10.1016/j.phymed.2014.08.014.
- Sinha D, **Singh Jyotsna**, Tandon PK, Kakkar P. Genetic diversity of *Pinus roxburghii* sarg. Collected from different himalayan regions of India assessed by random amplified polymorphic DNA analysis. *Toxicol Int.* 2013 Sep; 20 (3):208-13. doi: 10.4103/0971-6580.121667.
- **Singh Jyotsna**, Kakkar P. Modulation of liver function, antioxidant responses, insulin resistance and glucose transport by *Oroxylum indicum* stem bark in STZ induced diabetic rats. *Food Chem Toxicol.* 2013 Dec;62:722-31. doi: 10.1016/j.fct.2013.09.035.
- **Singh Jyotsna**, Poonam Kakkar. Antihyperglycemic and antioxidant effect of *Berberis aristata* root extract and its role in regulating carbohydrate metabolism in diabetic rats. *J of Ethnopharmacology*, 2009; 123: 22-26.
- Irshad Saba, **Singh Jyotsna**, Kakkar Poonam, Mehrotra Shanta. Molecular Characterization of *Desmodium* species- an important ingredient of Dashmoola by RAPD analysis. *Fitoterapia.* 2009; 80:115-8.
- Saba Irshad, **Jyotsna Singh**, Poonam Kakkar and Shanta Mehrotra Molecular characterization of *Desmodium* species - An important ingredient of 'Dashmoola' by RAPD analysis. (doi 10.1016/j.fitote.2008.11.004)
- Vartika Rai & Poonam Kakkar & **Jyotsna Singh** & Chetna Misra & Santosh Kumar & Shanta Mehrotra Toxic metals and organo-chlorine pesticides residue in single herbal drugs used in important ayurvedic formulation – 'Dashmoola' *Environ Monit Assess* DOI 10.1007/s10661-007-9976- *Environ Monit Assess* (2008) 143:273–277.
- Poonam Kakkar, **Jyotsna Singh** and Brijesh Kumar Singh: Modulation of Antioxidant Status and Carbohydrate Metabolism by *Berberis aristata* DC extract in diabetic rats. 3rd Biennial Meeting of the society of Free Radical Research- Asia- SFRR Asia (jan. 8-11, 2007) accepted as extended abstract for publication of the Proceedings and will be indexed to current contents of the Philadelphia.
- Sangeeta Sricastava, Radha Jain, Prashant S. Gupta and **Jyotsna Singh**: Analysis of Genetics fidelity in micropropagated Sugarcane plants using HSR-SSPP. *Indian J. of Genetics and Plant breeding.* Vol. 65 (4) (2006) pp. 327-328.
- Sangeeta Sricastava, Radha Jain, Prashant S. Gupta and **Jyotsna Singh**: Genetic Stability of in vitro raised Sugarcane plantlets by RAPD Markers. *Plant Cell Biotechnology and Molecular Biology .* Vol. 7 (1& 2) (2006) pp. 93-96.

- Radha Jain, Sangeeta Sricastava, **Jyotsna Singh** and Prashant S. Gupta: Assesment of Genetic Purity of Micropropagated Plants of Sugarcane by Isozyme and RAPD Analysis. Sugar Tech 7 (2&3) (2005): 15-19.
- Radha Jain, A.K. Srivastava, M.K. Srivastava and **Jyotsna Singh**: Specific activity and isozyme profile of oxidoreductases in response to chlorosis in sugarcane. Indian Journal of Plant Physiology 2003 (Special Issue) pp.560-564.
- Radha Jain, **Jyotsna Singh** and Sangeeta Srivastava: Changes in germination isozyme pattern and protein profile in response to Cold stress in Sugarcane. Tropical Agriculture.

Patents:

Details of Indian patent- Title-Process for the preparation 11b-[4-(N,Ndimethylamino) phenyl]-17 β -hydroxy17-(3-ethyl-1-butynyl)estra-4,9-diene-3-one Patent application No. 2964/DEL/96dated27.12.1996 Patent No.=185080 grant date 15 June 2001 Inventors-Braj Gopal Hazara, Vandana Sudhir Pore, Padmakar Laxman Joshi , Sourav Basu, **Jyotsna Singh**, Anila Dwivedi. **Details of US patent- Title** - Novel mifepristone analogue process for the preparation thereof and use thereof. Patent application No. 091656361dated 06/09/2000 **US patent No** –6512130 Grant date-28/01/2003 Inventors-Braj Gopal Hazara, Vandana Sudhir Pore, Padmakar Laxman Joshi , Sourav Basu, **Jyotsna Singh**, Anila Dwivedi.

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For the product “PAVA Shells” developed by TSU, BSF, Tekanpur, Gwalior, MP, India: “Bio-safety evaluation of smoke generated by chilli grenade: Lachrymatory composition and nonivamide/PAVA (Pelargonic acid) was conducted at CSIR-IITR.

Seminars/ Symposium

Poster/ Oral presentation: 16