

Dr Jai Pal Sharma

Professor

Specialization: Tree Improvement and Genetic Resources

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Ongoing Research Projects

- DUS Centre for Willow (*Salix* species) by PPV&FRA, ICAR for ₹ 6.00 lakh annually from 2013 to unlimited years (Principal Investigator).

Important Research Publications

- Sharma JP, Sankhyan HP, Thakur S, Jha SK, Sharma R, Poonam Kanwar and Gautam V. 2021. Genetic diversity and population structure of Indian willow (*Salix tetrasperma* Roxb.) along its distributional range in the Himalayan region. *Ecological Genetics and Genomics* 21:100096.
- Thakur Sapna, Gautam Kamini, Chauhan SK and Sharma Jai Pal. 2022. Tailoring tree ideotypes for multiple purposes in agroforestry. *The Forestry Chronicle* 98.
- Choudhary, Punit, Singh N B, Verma Archana and Sharma J P. 2013. Crossability relationship among tree willows (*Salix* spp.) and molecular genetic variation among their progenies. *Indian Journal of Genetics and Plant Breeding* 73(3): 302-9.
- Sharma JP, Sankhyan HP, Thakur S, Jha SK, Sharma R, Poonam Kanwar Gautam V and Sankhyan Neeraj. 2022. Genetic diversity and population structure of Indian willow (*Salix tetrasperma* Roxb.) along its distributional range in the Himalayan region. *Indian Journal of Genetics and Plant Breeding* 82(01): 73–80.
- Sharma JP, Singh NB, Sankhyan HP, Chaudhary Punit and Huse SK. 2011. Estimation of genetic parameters of newly introduced tree willow clones in Himachal Pradesh, India. *Genetika* 43(3), 487-501.
- Thakur Sapna, Singh NB, Thakur Sanjeev, Sharma JP, Sankanur M, Gupta RK and Bhat SS. 2018. Line x tester analysis for growth and biomass characteristics of *Salix*. *Genetika* 50(1): 95-106.
- Thakur Sapna, Singh NB, Jaipal Sharma, Thakur Sanjeev and Gupta RK. 2014. Developing climatic resilience *Salix* clones through control breeding. *Indian Journal of Genetics and Plant Breeding*, 74(4) Suppl. :572-77.
- Singh NB, Sharma JP, Chaudhary P and Gupta RK. 2014. Genotype X Environment Interaction and Growth Stability of Exotic Tree Willow (*Salix* Spp) clones. *Indian Journal of Genetics and Plant Breeding* 74(2): 222-28.
- Verma Archana, Singh NB, Suresh NV, Choudhary P, Sankanur M, Aggarwal G and Sharma JP 2015. RAPD and ISSR markers for molecular

characterization of *Grewia optiva*: an important fodder tree of north western Himalayas. Range Management and Agroforestry 36 (1) : 26-32.

- Singh NB, Joshi S, Choudhary Punit and Sharma J P. 2013. SSR DNA Marker Aided Genetic Diversity Assessment of Selected Willow Clones. *Genetika* 45(2):527-36.

Books and Manuals

- JP Sharma, Sanjeev Thakur, NB Singh and RK Dogra (2013) Cytogenetics and Cytology: a practical approach. Directorate of Extension Education, YS Parmar UHF, Nauni, Solan HP
- IK Thakur, NB Singh and JP Sharma (2013) Forest Tree Seed Technology: a practical approach. Directorate of Extension Education, YS Parmar UHF, Nauni, Solan HP.
- HP Sankhyan, NB Singh and JP Sharma, 2014, Bans utpadan – sehaj saral taknique. Extension Bulletin No 4. Directorate of Extension Education, UHF Nauni.
- NB Singh, JP Sharma and Sanjeev Thakur, 2015, Kisano ke liye bahupyogi podha – beuns. Extension Bulletin No4. Directorate of Extension Education, UHF Nauni.
- NB Singh, JP Sharma and Sanjeev Thakur, 2015, Poplar ki Khaeti podha – beuns. Extension Bulletin No3. Directorate of Extension Education, UHF Nauni.
- NB Singh, Dharmesh Gupta, JP Sharma and Vikas Benal, 2015, Vishwvidyalaye ke anumodit byuns pr shiitake ki kheti. Extension Bulletin No6. Directorate of Extension Education, UHF Nauni.

Awards & Recognitions

- First prize for presentation of the research entitled “Genetic Diversity of *Populus deltoides* clones on the Basis of Morphological, Wood Traits and Molecular Markers by Shikha Thakur, Sanjeev Thakur, Suman Kumar Jha, JP Sharma and RK Gupta under theme Tree Improvement, Silviculture and Management in NAU-IES-IUFRO Conference held at Nausari Agriculture University, Navsari, Gujrat w.e.f. 15 to 17th February 2023
- Third prize for poster presentation of the research entitled “Prepotency in half-sib progenies of *Grewia optiva* for morphometric and fodder traits” by Shikha Bhagta, HP Sankhyan and Jai Pal Sharma under theme Tree Improvement, Silviculture and Management in NAU-IES-IUFRO Conference held at Nausari Agriculture University, Navsari, Gujrat w.e.f. 15 to 17th February 2023
- Best poster paper presentation award for presenting the paper entitled “Developing climate resilient *Salix* clones through control breeding” by Sapna Thakur, NB Singh, JP Sharma, Rajeev Dhiman and Sneha Dobhal in a National Symposium on “Crop Improvement for Inclusive Sustainable Development” November 7-9, 2014 at P A U, Ludhiana Organized by Indian

Society of Genetics and Plant Breeding (ISGPB) NASC Complex, IARI, New Delhi.

- Best paper award in sub section genetics and biotechnology entitled "growth performance of hybrid seedlings in nursery" by JP Sharma, NB Singh and Punit Chaudhary in National seminar on Forestry and Agriculture organized by KFRI and Gregor Mendel Foundation university of Calicut at KFRI campus Peechi, Thrissure, Kerla on November 7-8 , 2013
- Brandis Prize in the year 2014 for the best research paper entitled "Heritability, genetic gain, correlation and principal component analysis in introduced willow (*Salix* species) clones, published in December 2012, in The Indian Forester.
- Second best paper poster presentation award for presenting the paper entitled, "Phenological behaviour and reproductive biology of important fast growing *Salix* species"(Punit Choudhary, N B Singh, J P Sharma, I K Thakur and Avanish Sharma) in IUFRO Symposium on "Short Rotation Forestry: Synergies for wood production and environmental amelioration" held in the Department of Forestry & Natural Resources, PAU, Ludhiana during 10-12 February, 2011
- Second best position in Oral presentation on the paper presented entitled "Bamboos and Their Conservation - A suitable Option for Land Use Diversification and Livelihood Security" (Sankhyan H.P., Singh, N.B. and Sharma, J.P.) in the International Conference on issues for Climate Change, Land Use Diversification and Biotechnological Tools and Livelihood Security being organized by your good self between October 8-10-2011 at Meerut.