

Papers published by VSI scientists & technologists

- **Abhijeet BM, Avinash ST, Rekha SS, Babu KH (2018)**
A tri-enzyme co-immobilized magnetic complex: Process details, kinetics, thermodynamics and applications
International Journal of Biological Macromolecules
118; 1781 - 1795
- **Dalvi SG, Suprrasanna P, Tawar PN, Dixit GB, Threerthaprasad D (2018)**
EMS Induced *in-vitro* mutagenesis for abiotic and biotic stress tolerance and isolation of biochemically and morphologically distinct phenotypes in sugarcane
FAO/IEAE International symposium on plant mutation breeding and biotechnology
27-31
- **Deshmukh PS, Kharade JP (2018)**
Field scale spatial variability of chemical properties of Lonarwadi research farm of VSI using geostatistical approach
Proceedings of 76th Annual convention of STAI; 96 - 106
- **Deshmukh Vikas (2019)**
Key factors influence ideal cane development programme
Proceedings of National Seminar on, Challenges to deliver sustainability in the Indian sugarcane industry, NFCSF; 31- 40
- **Farsangi FJ, Thorat AS, Devarumath RM (2018)**
Assessment the utility of TRAP and EST-SSR markers for genetic diversity analysis of sugarcane genotypes
Cytology and Genetics
52(6); 467- 477
- **Farsangi FJ, Thorat AS, Devarumath RM (2018)**
Assessment of genetic diversity among different sugarcane genotypes using internal transcribed spacer (ITS) region of the ribosomal DNA (rDNA)
GSC Biological and pharmaceutical Sciences
5(2); 17 - 25
- **Farsangi FJ, Thorat AS, Devarumath RM (2018)**
Molecular characterization of sugarcane genotypes for their salinity and susceptibility using TRAP markers
International Journal of Current Research
10(5); 68947 - 68951
- **Ghodke PV (2018)**
Sugarbeet cultivation in tropical India: An experience
Souvenir of International conference on, Doubling the farmers income through innovative approaches
14 – 15
- **Ghule SB, Sawant IS, Sawant SD, Saha S, Devarumath RM (2019)**
Detection of resistance to demethylation inhibitor fungicides in *Erysiphe necator* from tropical India by biological and molecular assays
Indian Phytopathology
72
53 - 61

- **Ghule SB, Sawant IS, Sawant SD, Saha S, Devarumath RM (2018)**
 Detection of G143A mutation in *Erysiphe necator* and its implications for powdery mildew management in grapes
 Indian J. Horticulture
 75(3)
 434 - 439
- **Hapase RS, Repale JM (2018)**
 A high yield, high sugared **sugarcane variety for Maharashtra State**
 Proceedings of 76th Annual Convention of STAI
 56 - 63
- **Muley AB, Ladole MR, Suprasanna P, Dalvi SG (2019)**
 Intensification of biological properties of chitosan by γ -irradiation
 International Journal of Biological Macromolecules
 435 - 444
- **Muley AB, Shingote PR, Patil AP, Dalvi SG, Suprasanna P (2019)**
 Gamma radiation degradation of chitosan for application in growth promotion and induction of stress tolerance in potato (*Solanum tuberosum* L.)
 Carbohydrate Polymers
 210
 289 - 30
- **Nalavade VM, Babu KH (2018)**
 Leaf disc assay an important tool for early assessment of abiotic stress tolerance in transgenic sugarcane
 Multilogic in Science
 8(27)
 212 - 214
- **Nerkar GA, Thorat AS, Sheelavantmath SS, Babu KH, Devarumath RM (2018)**
 Genetic Transformation of Sugarcane and Field Performance of Transgenic Sugarcane *In*:
 Biotechnologies of Crop Improvement Vol. 2: Transgenic Approach.
 Satbir Singh Gosal and Shabir Hussain Wani (Eds.)
 Springer International publishing UK
 207 - 226
- **Pawar BH, Yadav JH, Hapase RS (2018)**
 Evaluation of genotypes / varieties for resistance to smut disease under artificial disease condition
 Proceedings of 76th Annual Convention of STAI
 107 - 111
- **Shinde PP (2018)**
 Fertigation in sugarcane as per crop growth stages
 Proceedings of 76th Annual Convention of STAI
 129 - 138
- **Thorat AS, Sonone NA, Devarumath RM, Babu KH (2018)**
 Plant regeneration from direct and indirect organogenesis and assessment of genetic fidelity in *Saccharum officinarum* L. using DNA-based markers
 Bioscience Biotechnology Research Communications
 11(1)
 60 – 69

- **Dani RV (2018)**
Advancement in sugar processing technology in India
Proceedings of Annual convention of NISSTA
38 - 43
 - **Dani RV, Bhosale RN, Simanchal Panda (2018)**
Advantages of B-double curing to control final molasses purity
Proceedings of 48th Annual Convention of SISSTA
317 - 322
 - **Dani RV, Sidanale VP, Patil RR, Dalvi LS (2018)**
Reduction in emission of SO₂ from sugar mills
Proceedings of 76th Annual Convention of STAI
362 - 378
 - **Sapkal DB, Jadhav SN, Gursal MD, Dani RV (2018)**
High pressure hydro-jet cleaning of juice heaters and evaporators tubes-a case study of SMSMP SSK Ltd. Akhuj, Dist- Solapur
Proceedings of 48th Annual Convention of SISSTA
238 - 245
 - **Sidanale VP, Girgel MA, Chitnis PJ, Patil Prakash (2018)**
Improvement in clear juice quality and trials of sugar production by single sulphitation process
Proceedings of 48th Annual Convention of SISSTA
305 - 314
 - **Simanchal Panda, Patil RR, Dani RV (2018)**
Eco-friendly cleaning system for cane sugar process house by avoiding chemical use
Proceedings of 76th Annual Convention of STAI
324 - 334
 - **Chandgude RA, Patil PG, Sastry SS, Bhosale RN (2018)**
Low speed milling technology in sugar industry
Proceedings of 48th Annual Convention of SISSTA
199 - 211
 - **Patil PG, Chandgude RA, Sidanale VP (2018)**
Energy efficient motors with VFD for continuous centrifugals
Proceedings of 48th Annual Convention of SISSTA
259 - 263
 - **Hingane Hemlata, Waman Mohan (2018)**
Seasonal variations in fine particulate (PM 2.5) concentration in urban and rural environments in Pune, India
Journal of Applicable Chemistry
7 (5)
1351 - 1357
 - **Patil VP, Patil SS (2019)**
Anaerobically digested spentwash degradation by application of MW assisted O₃ and H₂O₂ process
International Journal of Research in Advent Technology
7 (2)
872 – 876
-

Paper Presentations

- **Dalvi SG, Suprrasanna P, Tawar PN, Dixit GB, Threerthaprasad D (2018)**
EMS Induced *in- vitro* mutagenesis for abiotic and biotic stress tolerance and isolation of biochemically and morphologically distinct phenotypes in sugarcane
FAO/IEAE International symposium on plant mutation breeding and biotechnology, Vienna Austria
 - **Dalvi SG (2018)**
Glucosamine applications for sustainable sugarcane agriculture
DAE-BRNS Life Sciences Symposium Frontiers in Agriculture Sciences, BARC, Mumbai
 - **Chavan SG, Dalvi SG, Pawar BH (2018)**
Role of chitosan and its derivative to enhance antifungal enzymatic expression in *Trichoderma viride* as a biocontrol agent
Indian chitin and chitosan Society meeting at NCL, Pune
 - **Patil SV (2018)**
Enhancing fuel ethanol production through B-Heavy molasses and sugarcane juice routes
Presented at Jubilant Life sciences, Noida, Uttar Pradesh
 - **Patil SV (2019)**
Emerging issues of new ethanol policy
Presented at All India Distillers' Association (AIDA), New Delhi
 - **Patil SV (2019)**
Enhancing first generation ethanol production opportunities and challenges
Presented at IISER, (Indian Institute of Science, Education and Research), Pune
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Poster Presentation

- **Kharade JP, Deshmukh PS (2018)**
Soil test fertilizer recommendation technology and bio-fertilizer for sustainable soil fertility and sugarcane productivity
State level seminar on “Fostering soils to meet emerging challenges in agriculture”
- **Arutagi Manjunath, Alhat Eknath, Nimbalkar Deepali (2018)**
Sugar mill spray pond overflow waste water management with an eco-friendly approach
DAE - BRNS Life Sciences Symposium, Bhabha Atomic Research Center
- **Urdukhe Amruta, Nimbalkar Deepali, Dalvi SG (2018)**
Evaluation of potential of chitosan for growth enhancement of chlorella species
7th Indian Chitin & Chitosan Society (ICCS) meeting, CSIR- NCL, Pune
- **Urdukhe Amruta, Momin Aftab, Dalvi SG (2018)**
Integrated management of spray pond effluent of sugar mill using chitosan & microalgae
DAE - BRNS Life Sciences Symposium, Bhabha Atomic Research Center, Mumbai.