

Papers published by VSI scientists & technologists

- **Deshmukh PS, Phonde DB (2016)**
Modeling relationship between soil K, plant K, sugarcane yield and juice quality grown in Inceptisols of Maharashtra; Proceedings of 74th Annual Convention of STAI; Pg.
- **Ghodke PV, Phonde DB (2016)**
Response of promising sugarcane genotypes to fertilizer levels during spring season
Proceedings of 74th Annual Convention of STAI; 47-53
- **Hapase RS, Repale JM, Chavan VM (2016)**
Evaluation of promising sugarcane genotypes in south Maharashtra
Proceedings 74th Annual Convention of STAI; 130-135
- **Nalavade VM, Kale RR, Thorat AS, Babu KH (2016)**
Standardization of protocol for callus induction, regeneration and genetic transformation of sugarcane (*Saccharum officinarum* L.) genotype Co 86032; Progress Research; 11(IV); 4196-4201
- **Nalavade VM, Naidu MR, Kale RR, Thorat AS, Babu KH (2017)**
Detection and eradication of major microbial contaminants during callus culture of Sugarcane (*Saccharum officinarum* L.) genotype Co 86032
Research Journal of Pharmaceutical, Biological and Chemical Sciences; 8(1); 1153-1160
- **Phonde DB, Deshmukh PS, Kharade JP (2016)**
Response of sugarcane crop to different plant nutrients
Proceedings 62nd Annual Convention of DSTA; Pg.
- **Sawant RA, Meti NT (2016)**
Cost effective techniques for *in vitro* Propagation of two Varieties of Sugarcane
International Journal of Current Research in Biosciences and Plant Biology; 3(5); 65-72
- **Shinde PP (2016)**
Performance of subsurface drip irrigation in sugarcane
Proceedings 74th Annual Convention of STAI; 119-122
- **Shinde PP (2016)**
Performance evaluation of VSI developed earthing-up equipment in sugarcane
Proceedings 62nd Annual Convention of DSTA; 128-132
- **Shinde PP (2016)**
Performance of a mechanical sugarcane planter developed for Indian conditions
Proceedings 29th Congress of ISSCT; 62-63
- **Shinde PP (2016)**
Sugarcane nutrition through drip irrigation
Proceedings 29th Congress of ISSCT; 88
- **Shriram V, Kumar V, Devarumath RM, Khare TS, Wani SH (2016)**
MicroRNAs as potential targets for abiotic stress tolerance in plants
Front. Plant Sci.; 7:817; DOI: 10.3389/fpls.2016.00817
- **Tawar PN, Sawant RA, Sushir KV, Devarumath RM, Hapase RS, Meti NT (2016)**
VSI 434: New sugarcane variety obtained through somaclonal variation
Agric Res (June 2016); 5(2): 127–136; DOI 10.1007/s40003-016-0203-0

- **Dani RV, Sapkal DB (2016)**
Guidelines for water conservation and wastewater discharges from sugar mills in India
Proceedings of 29th Congress of ISSCT; 531-538
 - **Kale KB, Sidanale VP (2016)**
Mantra to achieve 97% mill extraction
Proceedings 62nd Annual Convention of DSTA; E 237 - E 252
 - **Patil KR, Ingle TS (2016)**
Comparative study of three roller mills with UFR, TRPF, GRPF and two roller mill Proceedings
74th Annual Convention of STAI; 285-308
 - **Chandgude RA, Patil PG (2016)**
Intensification of power generation in sugar mills through modernization
Proceedings of 29th Congress of ISSCT; 1401-1408
 - **Patil SV, Ingle SR, Paradh AD (2016)**
Prospects and challenges of cellulosic ethanol production in India
Proceedings of 74th Annual Convention of STAI; 660-670
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Paper Presentations

- **Mirajkar SJ, Suprasanna P, Dalvi SG (2016)**
Synthesis and characterization of chitosan-silver nano-particle composite and its potential application in sugarcane micropropagation
International Conference and 11th Asia Pacific Chitin & Chitosan Symposium and 5th Indian Chitin and Chitosan Society Symposium, at Kochhi, India
- **Muley AB, Ladole MR, Mirajkar SJ, Suprasanna P, Dalvi SG (2016)**
Intensified biological properties of γ -irradiated chitosan
International Conference and 11th Asia Pacific Chitin & Chitosan Symposium and 5th Indian Chitin and Chitosan Society Symposium, at Kochhi, India
- **Patil SV (2016)**
Technologies to achieve zero discharge - Effluent treatment
Ethanol outlook India 2016 jointly organized by WIZ Business Company, Singapore and All India Distiller's Association, New Delhi
- **Patil SV (2017)**
Alternate feedstock under Indian conditions for improving fuel ethanol availability
All India Distiller's Association, New Delhi
- **Deshmane AB, Kemse AS, Nimbalkar Deepali, Patil Y, Ghole VS (2017)**
Developing Carbon Dioxide Sequestration Method using Biocatalyst - Carbonic Anhydrase and a Photo catalyst
National Conference on 'Monitoring and assessment of natural resources for sustainable management', organized by North Maharashtra University, Jalgaon

- **Hingane Hemalata, Wagh T, Nimbalkar Deepali (2017)**
Air quality monitoring in urban and rural area
National Conference on 'Monitoring and assessment of natural resources for sustainable management', organized by North Maharashtra University, Jalgaon
 - **Wadke Amruta, Pawar Sayali, Nimbalkar Deepali (2017)**
Study of Noise Pollution in Urban (Hadapsar) and Rural area (Manjari), Pune
National Conference on 'Monitoring and assessment of natural resources for sustainable management', organized by North Maharashtra University, Jalgaon
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Poster Presentation

- **Deshmukh PS, Phonde DB (2016)**
GPS GIS based soil fertility mapping of research farm of Vasantdada Sugar Institute, Pune, India
State level seminar on development in soil science: Climate change and its influence in natural resource management
- **Dalvi SG, Mirajkar SJ, Tawar PN, Pawar BH, Varshney L, Suprasanna P (2016)** Effect of normal and irradiated chitosan on potato tuber yield
International Conference and 11th Asia Pacific Chitin & Chitosan Symposium and 5th Indian Chitin and Chitosan Society Symposium, at Kochhi, India
- **Jomeh Farsangi F., Thorat AS, Devarumath RM (2017)**
Assessment the utility of simple sequence repeats and target region amplification polymorphism for genetic diversity of sugarcane germplasm; International Conference on Go Green

POSTER PRESENTATIONS DURING

International Conference & Exhibition on Sugarcane Value Chain - Vision 2025 Sugar at VSI

- **Ambawade MS, More RR, Pathade GR (2016)**
Indole Acetic Acid (IAA) production by *Bacillus siamensis* BE 76 isolated from *Musa balbisiana* (Banana)
- **Dalvi SG, Dixit GB, Theerthaprasad D (2016)**
Optimization of protocol for *Agrobacterium* mediated sugarcane transformation with NDPK2 gene
- **Dalvi SG, Mirajkar SJ, Tawar PN, Suprasanna P (2016)**
Effect of gamma irradiation processed bio-stimulator derivatives as a bio-stimulator for micropropagated sugarcane
- **Deshmukh PS, Kharade JP, Phonde DB (2016)**
Use of humic acid with chemical fertilizers in sugarcane
- **Gawade DB, Pawar BH, Dalvi SG (2016)**
In vitro study on efficacy of *Trichoderma* isolates against *Fusarium sacchari* – a causal agent of wilt of sugarcane
International Conference & Exhibition on Sugarcane Value Chain - Vision 2025 Sugar at

- **Gawade DB, Pawar BH, Dalvi SG (2016)**
In vitro study on efficacy of Trichoderma isolates against Fusarium sacchari – a causal agent of wilt of sugarcane
- **Ghodke PV, More RR, Phonde DB (2016)**
Requirement and schedule of fertilizers in presence of *Glucanoacetobactor dizotrophicus* for sugarcane seed production
- **Ghodke PV, Phonde DB, Tawar PN (2016)**
Agro-Techniques for sugarcane seed production through tissue culture plantlets
- **Hapase RS, Repale JM, Pawar DS (2016)**
Assesment of promising sugarcane genotypes through multilocation trials in Maharashtra
- **Jafarzadeh E, Jamshidi F, Yeole YT, More RR (2016)**
Antimicrobial activity of endophytic bacteria from sugarcane (*Saccharum* spp.) genotypes developed in India against pathogens
- **Jomeh Farsangi F., Thorat AS, Devarumath RM (2016)**
Evaluation of genetic diversity among wild types and different accession of sugarcane germplasm by using molecular markers (ISSR and RAPD)
- **Kalwade SB, Devarumath RM (2016)**
Quantitative real time gene expression analysis associated with the sucrose accumulation in high and low sucrose sugarcane
- **Kharade JP, Deshmukh PS, Phonde DB (2016)**
Nutrient management for sugarcane in sodic soil
- **More RR, Phonde DB (2016)**
Biological soil health and plant health management in sugarcane
- **More RR, Ghodke SD, Patil MA (2016)**
Consortium of microbial toxins as a Bioweedicide - a novel tool for controlling weeds in sugarcane crop
- **More RR, Phonde DB, Ghodke SD, Nigade KG (2016)**
Isolation & screening of potash mobilizing bacteria and its development as consortium of bacterial liquid Bioinoculant
- **More RR, Phonde DB (2016)**
Silicate solubilizing microorganisms for increasing availability of silicon and for increasing yield and quality of sugarcane
- **More RR, Ghodke SD (2016)**
Evaluation of decomposition of different waste viz; city, kitchen, textile and butcher by using special decomposing culture for organic compost as Solid Waste Management
- **More RR, Phonde DB (2016)**
Nitrogen economy in sugarcane through consortium of symbiotic endophytic nitrogen fixing bacteria
- **More RR, Phonde DB (2016)**
Capital use of consortium of sulphur oxidizing microbial liquid bio-inoculant in sugarcane
- **Nalavade VM, Kale RR, Thorat AS, Babu KH (2016)**
Standardization of protocol for callus induction, regeneration and genetic transformation of sugarcane (*Saccharum Officinarum* L) genotype co 86032

- **Nalavade VM, Marotkar GC, Sonule PR, Thorat AS, Babu KH (2016)**
Development of Transgenic Sugarcane for abiotic stress tolerance using R2R3 MYB transcription factor
- **Nikam AA, Devarumath RM, Tawar PN, Suprasanna P (2016)**
Effect of gamma irradiation in enhancing genetic variation and field screening of mutants in sugarcane cv. Co86032
- **Pawar BH, Yadav JH (2016)**
Managing brown rust disease of sugarcane with fungi-toxicants
- **Phonde DB, Deshmukh PS, Kharade JP (2016)**
Integrated approach of nutrient management for economizing chemical fertilizers use in Sugarcane
- **Sawant RA, Meti NT (2016)**
Effect of number of subcultures (multiplication cycles) on field performance of *in vitro* plantlets of two sugarcane varieties
- **Shahi NV, More RR (2016)**
Biologically active microbial endophytes impedes the growth of Sigatoka pathogen in banana
- **Shinde PP (2016)**
Mechanization of sugarcane cultivation
- **Shinde PP (2016)**
Improving sugarcane productivity with micro irrigation systems
- **Sushir KV, Hapase RS, Sreenivasan TV (2016)**
Nobilization of *Erianthus arundinaceus* x *Saccharum species* hybrid with n + 2n chromosome transmission
- **Thorat AS, Sonone NA, Nalavade VM, Devarumath RM, Babu KH (2016)**
Sugarcane regeneration from direct and indirect organogenesis and assessment of genetic fidelity through molecular markers
- **Yadav RG, Gadade PV (2016)**
Chemical control of early shoot borer (*Chilo infuscatellus* snellen) in sugarcane
- **Tawar PN, Sushir KV, Pawar MW, Meti NT (2016)**
Performance of sugarcane somaclones under moisture stress
- **Sapkal DB (2016)**
Membrane bio-reactor technology for water recycling in sugar mills
- **Patil KR, Ingle TS (2016)**
Dry cooling tower for cogeneration projects
- **Dudhane AA, Sutar SA, Paradh AD, Patil SV (2016)**
Enhanced ethanol production from *Clostridium ragsdalei* through syngas route using optimized media and fermentation parameters
- **Burase RV, Patil RS, Rathod GL, Misale GP, Patil SV (2016)**
Pilot scale studies on bio-methanation of high brix spentwash
- **Nalavade VM, Gaikwad PS, Ghule VP, Deshmane AB, Babu KH (2016)**
Bio-remediation of sugar mill effluent using consortium of bacteria and *Chlorella vulgaris*.
- **Patankar SS, Sutar SA, Paradh AD, Patil SV (2016)**
Genome shuffling a promising method of microbial manipulation for improving alcoholic fermentation
- **Jamadar AN, Bhosale BL, Patil NM (2016)**
VSI sugar ERP: Software for sugar and allied industry