

## Papers published by VSI scientists & technologists

- **Harinath Babu K, Devarumath RM, Thorat AS, Nalavade VM, Saindane M, Appunu C, and Suprasanna P (2020)**  
Sugarcane Transgenics: Developments and Opportunities.  
PB KaviKishor et. al. (eds.), Genetically Modified Crops  
Springer Nature Singapore Pvt. Ltd.  
241-265
- **Muley AB, Pandit AB, Singhal RS, Dalvi SG (2021)**  
Production of biologically active peptides by hydrolysis of whey protein isolates using hydrodynamic cavitation.  
Ultrasonics Sono Chemistry  
71  
1-13
- **Negi P, Pandey M, Dorn KM, Nikam AA, Devarumath RM, Srivastava AK and Suprasanna P (2020)**  
Transcriptional reprogramming and enhanced photosynthesis drive inducible salt tolerance in sugarcane mutant M4209.  
Journal of Experimental Biology  
71(19)  
6159-6173
- **Shinde PP (2020)**  
Techno-economic feasibility of drip fertigation in sugarcane  
Proceedings of 78th Virtual Annual Convention of STAI  
211-216.
- **Shingote PR, Kawar PG, Pagariya MC, Muley AB, Babu KH (2020)**  
Isolation and functional validation of stress tolerant EaMYB18 gene and its comparative physio-biochemical analysis with transgenic tobacco plants over expressing SoMYB18 and SsMYB18  
3 Biotech  
10 (5)  
1-13

- **Arora R, Behera S, Sharma NK, Singh I, Ransore V, Saiyyed R, Kumar S (2020)**  
 Bioprospecting saccharification of alkali pretreated paddy straw through statistically designed parameters for biofuel production,  
 Industrial Biotechnology,  
 16 (6)  
 375-385
- **Burase R, Patil S, Joshi R (2020)**  
 Biomethanation of high solid containing distillery spentwash using developed acclimatized microbial consortia,  
 Poll Res.  
 39 (4)  
 1034-1037
- **Konde KS, Nagarajan S, Kumar V, Patil SV, Ranade VV (2021)**  
 Sugarcane Bagasse based biorefineries in India: potential and challenges,  
 Sustainable Energy & Fuels  
 5  
 52-78
- **Meghana M, Shastri Y, Nalawade K, Konde K, Patil S (2021)**  
 Life cycle and economic assessment of sugarcane bagasse valorization to lactic acid,  
 Waste Management  
 126  
 52-64
- **Nalawade K, Baral P, Patil S, Pundir A, Konde K, Patil S, Agarwal D (2020)**  
 Evaluation of alternative strategies for generating fermentable sugars from high-solids alkali pretreated sugarcane bagasse and successive valorization to L (+) lactic acid,  
 Renewable Energy,  
 157  
 708-717

- **Nalawade K, Saikia P, Behera S, Konde K, Patil S (2020)**  
Assessment of multiple pretreatment strategies for 2G L-lactic acid production from sugarcane bagasse,  
Biomass Conversion and Biorefinery  
1-14
- 

## Paper Presentations

National Webinar on “Preparations for Ethanol Production from BH molasses, Cane Juice, Syrup and Sugar” organized by VSI Pune on November 4, 2020

- **Dani RV (2020)**  
Implementation of DFPD guidelines in sugar mill for diversion of BH molasses or other feed stock for ethanol production
  - **Deshmukh AB (2020)**  
Implementation of DFPD guidelines in molasses based distilleries for ethanol production
  - **Patil RR (2020)**  
Methodology to be used for FRP recovery calculations during diversion of BH molasses or syrup
  - **Patil SV (2020)**  
Challenges, strategy and cost economics of ethanol production from multiple feedstock
  - **Sidanale VP (2020)**  
Challenges and remedies in sugar processing while diverting BH molasses or other feed stock for ethanol production
-

## Poster Presentation

- **Patil SV (2020)**  
Opportunities and challenges for ethanol production from multiple feedstock  
Presented in Catalyst Webinar
- **Patil SV (2020)**  
No increase in pollution load-enhanced distillery capacity with existing effluent treatment system  
Presented to Maharashtra Pollution Control Board, Mumbai
- **Patil SV (2021)**  
Challenges, strategy and cost economics of ethanol production from multiple feedstock  
Gujarat State Sugar Federation Seminar at Gandevi Sugar Factory:
- **Patil SV (2021)**  
Evaluation of dual feed route for ethanol production-opportunities, challenges and economics  
Presented in STAI Webinar
- **Patil SV (2021)**  
Opportunity for diversification for sugar mills in waste to energy (biofuels) field biogas (CBG/CNG) and organic fertilizer from sugarcane bagasse, press mud cake and trash  
Presented for Board of Directors of Malegaon SSK