

Indian Journal of Biotechnology

<http://www.niscair.res.in>

VOLUME 19

NUMBER 2

April 2020

CODEN: IJBNAR 19 (2) (2020) 65-151

ISSN: 0972-5849 (print)

0975-0967 (online)

CONTENTS

Papers

- Understanding the mode of regulation of proline biosynthesis for drought tolerance in transgenic rice overexpressing *PDH47* gene
Dhanawantari L. Singha, Sangeeta Sarma, Salvinder Singh 73
- Expression analysis of maize genes during *Bipolaris maydis* infection and assessing their role in disease resistance and symptom development
Shweta Meshram, Robin Gogoi, Bishnu Maya Bashyal, Aundy Kumar, Pranab Kumar Mandal and Firoz Hossain 82
- Constitutive expression of protease inhibitor gene isolated from black gram (*Vigna mungo* L.) confers resistance to *Spodoptera litura* in transgenic tobacco plants
Mudiyappanayar Jagdish and K R Koundal 94
- Assessment of phenotypic developmental traits and hybrid vigor in *Arabidopsis thaliana*
Astha Gupta, Samir V. Sawant, Hemant Kumar Yadav 102
- Identification of new strain of mungbean yellow mosaic virus infecting french bean (*Phaseolus vulgaris* L.) in Santiniketan
Nisha Patwa, Varsha Kumari and Jolly Basak 113
- Relationship between polymorphisms of leptin gene with growth, fertility and milk production traits in Sahiwal cows
Prajwalita Pathak, Anupama Mukherjee, Shabahat Mumtaz and Suchit Kumarn 118
- Development of a multiplex PCR for the identification of *Pseudomonas aeruginosa*, *Escherichia coli*, *Klebsiella pneumoniae* and *Streptococcus agalactiae* in milk
Isha Sekhri, Mudit Chandra, Gurpreet Kaur, Deepti Narang and A. K. Arora 125
- Assessment and comparison of four lab made tris-base extenders for preservation of Labrador retriever dog semen at 4°C
Sukhjeet Kaur, Ranjna S Cheema, Gurjot K Mavi, M Honparkhe, Ashwani K Singh and V K Gandotra 131
- Reduction of polyphenolic exudation and enhancement of hardening efficiency in pomegranate tissue culture plants
Manasa P and Sridharan T B 140
- Instructions to Contributors** 148

