

Indian Journal of Biotechnology

VOLUME 1

NUMBER 2

APRIL 2002

CONTENTS

Review

- Calcium homeostasis in plants: role of calcium binding proteins in abiotic stress tolerance. 135
 Giridhar Pandey, M K Reddy, Sudhir K Sopory & Snehlata Singla-Pareek

Papers

- New curcumin – bioconjugate: synthesis and DNA binding. 158
 Sanjay Kumar, Vibha Shukla, Arvind Misra, Snehlata Tripathi & Krishna Misra
- Cloning and characterization of a gene encoding ubiquitin conjugating enzyme from the mangrove species, *Avicennia marina* (Forsk.) Vierh. 164
 M Parani, M N Jithesh, M Lakshmi & A Parida
- Antigenic differentiation of Equine Herpes Virus -1 (EHV-1) isolates of Indian origin using monoclonal antibodies. 170
 B K Singh, B R Gulati, S C Tewari & M P Yadav
- Viral etiology of Complete Hydatidiform Moles (CHM) 175
 Swapna Alex, Beena Panikkar, P K Shyamala & Prabha Balaram
- Efficacy of a rock phosphate based soil implant formulation of phosphobacteria in soybean (*Glycine max* Merrill). 180
 G Viveganandan & K S Jauhri
- Role of disulfide bridges in structure-activity relationship of plant lipases (from wheat germ and rice bran). 188
 K N Gopalakrishna, Purnima Kaul, P Ramesh Kumar & V Prakash
- Micropropagation of *Salvadora persica* Linn. via cotyledonary nodes. 197
 Sujata Mathur, Gyan Singh Shekhawat & Amla Batra
- A technique for rapid micropropagation of *Solanum surattense* Burm. f. 201
 P K Pawar, C S Pawar, B A Narkhede, N P Teli, S R Bhalsing & V L Maheshwari

Short Communications

- Mass cultivation of *Bacillus thuringiensis* var. *kurstaki* in fed-batch culture for high spore count and improved insecticidal activity. 205
 Vinod Bihari, C K M Tripathi, Banani Sur, W M Liu & Rakesh Bajpai

Contd.

| | |
|--|-----|
| Ethanol-induced enhancement of the transformation of <i>Escherichia coli</i> by plasmid DNA. Suchitra Sarkar, Sujan Chaudhuri & Tarakdas Basu | 209 |
| Introduction of Gerbera cultivation in Lucknow agro-climate through tissue culture of young flower head. A K A Mandal & S K Datta | 212 |
| News Scan | |
| Tissue engineering K Y Kavathekar | 215 |
| Instructions to Contributors | 217 |

AUTHOR INDEX

| | | | |
|-------------------|-----|-----------------|-----|
| Alex S | 175 | Misra K | 158 |
| Bajpai R | 205 | Narkhede B A | 201 |
| Balaram P | 175 | Pandey G | 135 |
| Basu T | 209 | Panikkar B | 175 |
| Batra A | 197 | Parani M | 164 |
| Bhalsing S R | 201 | Parida A | 164 |
| Bihari V | 205 | Pawar C S | 201 |
| Chaudhuri S | 209 | Pawar P K | 201 |
| Datta S K | 212 | Prakash V | 188 |
| Gopalakrishna K N | 188 | ReddyM K | 135 |
| Gulati B R | 170 | Sarkar S | 209 |
| Jauhri K S | 180 | Shekhawat G S | 197 |
| Jithesh M N | 164 | Shukla V | 158 |
| Kaul P | 188 | Shyamala P K | 175 |
| Kavathekar K Y | 215 | Singh B K | 170 |
| Kumar P R | 188 | Singla-Pareek S | 135 |
| Kumar S | 158 | Sopory S K | 135 |
| Liu W M | 205 | Sur B | 205 |
| Lakshmi M | 174 | Teli N P | 201 |
| Maheshwari V L | 201 | Tewari S C | 170 |
| Mandal A K A | 212 | Tripathi C K M | 205 |
| Mathur S | 197 | Tripathi S | 158 |
| Misra A | 158 | Viveganandan G | 180 |
| | | Yadav M P | 170 |