

Abiotic stress responses and microbe-mediated mitigation in plants: The omics strategies

Meena, Kamlesh K.; Sorty, Ajay M.; Bitla, Utkarsh M.; Choudhary, Khushboo; Gupta, Priyanka; Pareek, Ashwani; Singh, Dhananjaya P.; Prabha, Ratna; Sahu, Pramod K.; **Gupta, Vijai Kumar** *Frontiers in plant science* 2017 / art. 172, 25 p. : ill

<https://doi.org/10.3389/fpls.2017.00172> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Advances in eco-efficient agriculture: The plant-soil mycobiome

Pagano, Marcela Claudia; Correa, Eduardo J. Azevedo; Duarte, Neimar F.; Yelikbayev, Bakhytzhani; O'Donovan, Anthonia; **Gupta, Vijai Kumar** *Agriculture* 2017 / art. 14, 12 p. <https://doi.org/10.3390/agriculture7020014> [Journal metrics at Scopus](#) [Article at Scopus](#)

[Journal metrics at WOS](#) [Article at WOS](#)

Advances in nanomaterials induced biohydrogen production using waste biomass

Srivastava, Neha; Srivastava, Manish; Mishra, Pradeep Kumar; Kausar, Mohd Adnan; Saeed, Mohd; **Gupta, Vijai Kumar**; Singh, Rajeev; Ramteke, Pramod Wasudeo *Bioresource Technology* 2020 / art. 123094 <https://doi.org/10.1016/j.biortech.2020.123094> [Journal metrics at Scopus](#) [Article at Scopus](#)

[Journal metrics at WOS](#) [Article at WOS](#)

Andrographolide, a diterpene lactone from *Andrographis paniculata* and its therapeutic promises in cancer

Islam, Muhammad Torequl; Ali, Eunus S.; Uddin, Shaikh Jamal; **Gupta, Vijai Kumar** *Cancer letters* 2018 / p. 129-145 : ill

<https://doi.org/10.1016/j.canlet.2018.01.074> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Antifungal agents in agriculture : friends and foes of public health

Brauer, Veronica Soares; Rezende, Caroline Patini; Pessoni, Andre Moreira; De Paula, Renato Graciano; Rangappa, Kanchugarakoppal S.; Nayaka, Siddaiah Chandra; **Gupta, Vijai Kumar**; Almeida, Fausto *Biomolecules* 2019 / art. 521

<https://doi.org/10.3390/biom9100521> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Application of activated carbon derived from seed shells of *Jatropha curcas* for decontamination of zearalenone mycotoxin

Kalagatur, Naveen K.; Karthick, Kumarvel; Allen, Joseph A.; Chandranayaka, Siddaiah; **Gupta, Vijai Kumar**; Ghosh, Oripambil Sivaraman Nirmal; Krishna, Kadirvelu; Mudili, Venkataramana *Frontiers in pharmacology* 2017 / art. 760, 13 p. : ill

<https://doi.org/10.3389/fphar.2017.00760> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Applications of fungal cellulases in biofuel production : advances and limitations

Srivastava, Neha; Srivastava, Manish; Mishra, Pradeep Kumar; **Gupta, Vijai Kumar**; Molina, Gustavo; Rodriguez-Couto, Susana; Manikanta, Ambepu; Ramteke, Pramod Wasudeo *Renewable and Sustainable Energy Reviews* 2018 / p. 2379 - 2386

<https://doi.org/10.1016/j.rser.2017.08.074> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Batch and fed-batch ethanol fermentation of cheese-whey powder with mixed cultures of different yeasts

Farkas, Csilla; Rezessy-Szabo, Judit M.; **Gupta, Vijai Kumar**; Bujna, Erika; Pham, Tuan M.; Pásztor-Huszár, K.; Friedrich, László; Bhat, Rajeev; Thakur, Vijay Kumar; Nguyen, Quang D. *Energies* 2019 / Art. 4495 <https://doi.org/10.3390/en12234495> [Journal metrics at Scopus](#) [Article at Scopus](#)

[Journal metrics at WOS](#) [Article at WOS](#)

Berberine, a popular dietary supplement for human and animal health : quantitative research literature analysis – a review

Yeung, Andy Wai Kan; Orhan, Ilkay Erdogan; Aggarwal, Bharat Bhushan; Battino, Maurizio; Belwal, Tarun; Bishayee, Anupam; Daglia, Maria; Devkota, Hari Prasad; El-Demerdash, Amr; Balacheva, Aneliya A.; Georgieva, Maya G.; **Gupta, Vijai Kumar** *Animal Science Papers and Reports* 2020 / p. 5-19

<https://www.igbzpan.pl/uploaded/FSiBundleContentBlockBundleModelTranslatableBlockTranslatableFilesElement/filePath/1583/str5-20.pdf>

[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Biocontrol of *Fusarium wilt* of *Capsicum annuum* by rhizospheric bacteria isolated from turmeric endowed with plant growth promotion and disease suppression potential

Passari, Ajit Kumar; Lalsiamthari, P.C.; Zothanpuia; Leo, Vincent Vineeth; Mishra, Vineet Kumar; Yadav, Mukesh Kumar; **Gupta, Vijai Kumar**; Singh, Bhim Pratap *European Journal of Plant Pathology* 2018 / p. 831 - 846 <https://doi.org/10.1007/s10658-017-1325-3> [Journal metrics at Scopus](#) [Article at Scopus](#)

[Journal metrics at WOS](#) [Article at WOS](#)

Biofabrication of zinc oxide nanoparticles with *syzygium aromaticum* flower buds extract and finding its novel application in controlling the growth and mycotoxins of *Fusarium graminearum*

Lakshmeesha, Thimappa Ramachandrappa; Kalagatur, Naveen Kumar; Mudili, Venkataramana; Mohan, Chakrabhavi Dhananjaya; Rangappa, Shobith; Prasad, Bangari Daruka; Ashwini, Bagepalli Shivaram; Hashem, Abeer; Alqarawi, Abdulaziz A.; **Gupta, Vijai Kumar** *Frontiers in microbiology* 2019 / art. 1244, 13 p. : ill <https://doi.org/10.3389/fmicb.2019.01244> [Journal metrics at Scopus](#) [Article at Scopus](#)

[Journal metrics at WOS](#) [Article at WOS](#)

The biomolecular spectrum drives microbial biology and functions in agri-food-environments

Sharma, Minaxi; Singh, Dhananjaya Pratap; Rangappa, Kanchugarakoppal S.; Stadler, Marc; Mishra, Pradeep Kumar; Silva, Roberto Nascimento; Prasad, Ram; **Gupta, Vijai Kumar** *Biomolecules* 2020 / art. 401 <https://doi.org/10.3390/biom10030401> [Journal metrics at Scopus](#) [Article at Scopus](#)

[Journal metrics at WOS](#) [Article at WOS](#)

Bioprospecting microalgae from natural algal bloom for sustainable biomass and biodiesel production

Pandey, Manish K.; Dasgupta, Chitralekha Nag; Mishra, Shashank; Srivastava, Manish; **Gupta, Vijai Kumar**; Suseela, M.R.; Ramteke, Pramod Wasudeo Applied Microbiology and Biotechnology 2019 / p. 5447 - 5458 <https://doi.org/10.1007/s00253-019-09856-2> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Biotechnological advances for restoring degraded land for sustainable development

Tripathi, Vishal; Edrisi, Sheikh Adil; Chen, Bin; **Gupta, Vijai Kumar**; Vilu, Raivo; Gathergood, Nicholas; Abhilash, P.C. Trends in biotechnology 2017 / p. 847-859 : ill <https://doi.org/10.1016/j.tibtech.2017.05.001> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Carbon sources influence Fumonisin production in *Fusarium proliferatum*

Li, Taotao; Gong, Liang; Jiang, Guoxiang; Wang, Yong; **Gupta, Vijai Kumar**; Qu, Hongxia; Duan, Xuewu; Wang, Jiasheng; Jiang, Yueming Proteomics 2017 / art. 1700070, 15 p. : ill <https://doi.org/10.1002/pmic.201700070> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Chitosan nanoparticles having higher degree of acetylation induce resistance against pearl millet downy mildew through nitric oxide generation

Siddaiah, Chandra Nayaka; Prasanth, Keelara Veerappa Harish; Satyanarayana, Niranjan Raj; Mudili, Venkataramana; **Gupta, Vijai Kumar**; Kalagatur, Naveen Kumar; Satyavati, Tara; Dai, Xiao-Feng; Chen, Jie-Yin; Mocan, Andrei Scientific reports 2018 / art. 2485, 14 p. : ill <https://doi.org/10.1038/s41598-017-19016-z> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at Scopus](#) [Article at WOS](#)

Chrysophanol : a natural anthraquinone with multifaceted biotherapeutic potential

Prakteeksha; Yusuf, Mohd Aslam; Singh, Brahma Nand; **Sudheer, Surya**; **Gupta, Vijai Kumar** Biomolecules 2019 / art. 68, 24 p. : ill <https://doi.org/10.3390/biom9020068> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Coating with microbial hydrophobins : a novel approach to develop smart drug nanoparticles

Singh, Brahma N.; Singh, Braj R.; **Gupta, Vijai Kumar** Trends in biotechnology 2018 / p. 1103–1106 : ill <https://doi.org/10.1016/j.tibtech.2018.03.006> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Cold adapted fungi from Indian Himalaya : untapped source for bioprospecting

Pandey, Anita D.; Dhakar, Kusum; Jain, Rahul; Pandey, Neha; **Gupta, Vijai Kumar**; Kooliyottil, Rinu; Dhyan, Ashish; Malviya, Mukesh K.; Adhikari, Priyanka Proceedings of the National Academy of Sciences India Section B - Biological Sciences 2019 / p. 1125-11321 : ill <https://doi.org/10.1007/s40011-018-1002-0> [Journal metrics at Scopus](#) [Article at Scopus](#)

Combinational inhibitory action of *hedychium spicatum* L. essential oil and γ -radiation on growth rate and mycotoxins content of *fusarium graminearum* in maize: response surface methodology

Kalagatur, Naveen Kumar; Kamasani, Jalarama R.; Siddaiah, Chandranayaka; **Gupta, Vijai Kumar**; Krishna, Kadirvelu; Mudili, Venkataramana Frontiers in microbiology 2018 / art. 1511, 15 p. : ill <https://doi.org/10.3389/fmicb.2018.01511> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A comparative evaluation towards the potential of *Klebsiella* sp. and *Enterobacter* sp. in plant growth promotion, oxidative stress tolerance and chromium uptake in *Helianthus annuus* (L.)

Gupta, Pratihtha; Kumar, Vipin; Usmani, Zeba; Rani, Rupa; Chandra, Avantika; **Gupta, Vijai Kumar** Journal of hazardous materials 2019 / 7 p. : ill <https://doi.org/10.1016/j.jhazmat.2019.05.054> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Comparative genomic analysis of monosporial and monoteliosporic cultures for unraveling the complexity of molecular pathogenesis of *Tilletia indica* pathogen of wheat

Mishra, Pallavi; Maurya, Ranjeet; **Gupta, Vijai Kumar**; Ramteke, Pramod Wasudeo; Marla, Soma S.; Kumar, Anil Scientific reports 2019 / art. 8185, 15 p. : ill <https://doi.org/10.1038/s41598-019-44464-0> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Complete genome sequencing of the luminescent bacterium, *vibrio qinghaiensis* sp. Q67 using PacBio technology

Gong, Liang; Wu, Yu; Jian, Qijie; Yin, Chunxiao; **Gupta, Vijai Kumar**; Duan, Xuewu; Jiang, Yueming Scientific Data 2018 / art. 170205 <https://doi.org/10.1038/sdata.2017.205> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Correction to: Transcriptome-wide identification of genes involved in Ascorbate–Glutathione cycle (Halliwell–Asada pathway) and related pathway for elucidating its role in antioxidative potential in finger millet (*Eleusine coracana* (L.)) (3 Biotech, (2018), 8, 12, (499), 10.1007/s13205-018-1511-9)

Avashthi, Himanshu; Pathak, Rajesh Kumar; Pandey, Neetesh; Arora, Sandeep; Mishra, Amrendra Kumar; **Gupta, Vijai Kumar**; Ramteke, Pramod Wasudeo; Kumar, Anil 3 Biotech 2019 / p. 337 <https://doi.org/10.1007/s13205-019-1864-8> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Cross-kingdom small RNAs among animals, plants and microbes

Zeng, Jun; **Gupta, Vijai Kumar**; Jiang, Yueming; Yang, Bao; Gong, Liang; Zhu, Hong Cells 2019 / art. 371 <https://doi.org/10.3390/cells8040371> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Cytosporone B as a biological preservative: purification, fungicidal activity and mechanism of action against *Geotrichum citri-aurantii*

Yin, Chunxiao; Liu, Hongxin; Shan, Yang; **Gupta, Vijai Kumar**; Jiang, Yueming; Zhang, Weimin; Tan, Haibo; Gong, Liang
Biomolecules 2019 / Art. nr. 125 <https://doi.org/10.3390/biom9040125> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Determination and production of antimicrobial compounds by *Aspergillus clavatonanicus* strain MJ31, an endophytic fungus from *Mirabilis jalapa* L. using UPLC-ESI-MS/MS and TD-GC-MS analysis

Mishra, Vineet Kumar; Passari, Ajit Kumar; Chandra, Preeti; Leo, Vincent Vineeth; Kumar, Brijesh; Uthandi, Sivakumar; Thankappan, Sugitha; **Gupta, Vijai Kumar**; Singh, Bhim Pratap PLoS ONE 2017 / art. e0186234, 24 p. <https://doi.org/10.1371/journal.pone.0186234> <https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0268371> <https://www.scopus.com/record/display.uri?eid=2-s2.0-85131462947&origin=inward&txid=09dcb2e6296ce2f331ac4a8a8f9cf8d6> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Dietary natural products and their potential to influence health and disease including animal model studies

Yeung, Andy Wai Kan; Aggarwal, Bharat Bhushan; Barreca, Davide; Battino, Maurizio; Belwal, Tarun; Horbańczuk, Olaf K.; Berindan-Neagoe, Ioana; Bishayee, Anupam; Daglia, Maria; **Gupta, Vijai Kumar** Animal science papers and reports 2019 / p. 345-358 : ill <https://www.iris.unict.it/bitstream/20.500.11769/364904/2/Dietary%20natural%20products%20and%20their%20potential%20to%20influence%20health%20and%20disease%20including%20animal%20model%20studies%20.pdf> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Differential susceptibility of catheter biomaterials to biofilm-associated infections and their remedy by drug-encapsulated eudragit RL100 nanoparticles

Pandey, Vivek Kumar; Srivastava, Kumar Rohit; Ajmal, Gufran; Thakur, Vijay Kumar; **Gupta, Vijai Kumar**; Upadhyay, Siddh Nath; Mishra, Pradeep Kumar International Journal of Molecular Sciences 2019 / Art. nr. 5110 <https://doi.org/10.3390/ijms2005110> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The effect of rice husk biochar on soil nutrient status, microbial biomass and paddy productivity of nutrient poor agriculture soils

Singh, Chhatarpal; Tiwari, Shashank; **Gupta, Vijai Kumar**; Singh, Jay Shankar Catena 2018 / p. 485 - 493
<https://doi.org/10.1016/j.catena.2018.07.042> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Efficient dark fermentative hydrogen production from enzyme hydrolyzed rice straw by *Clostridium pasteurianum* (MTCC116)

Srivastava, Neha; Srivastava, Manish; Kushwaha, Deepika; **Gupta, Vijai Kumar**; Manikanta, Ambepu; Ramteke, Pramod Wasudeo; **Mishra, Pradeep Kumar** Bioresource technology 2017 / p. 552-558 : ill <https://doi.org/10.1016/j.biortech.2017.04.077> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Endolichenic Fungi: a hidden reservoir of next generation biopharmaceuticals

Singh, Brahma N.; Upreti, Dalip K.; **Gupta, Vijai Kumar**; Dai, Xiao-Feng; Jiang, Yueming Trends in biotechnology 2017 / p. 808-813
<https://doi.org/10.1016/j.tibtech.2017.03.003> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Endolichenic fungus, *Aspergillus quandricinctus* of *Usnea longissima* inhibits quorum sensing and biofilm formation of *Pseudomonas aeruginosa* PAO1

Prateeksha; Bajpai, Rajesh; Yusuf, Mohd Aslam; Upreti, Dalip Kumar; **Gupta, Vijai Kumar**; Singh, Brahma Nand Microbial pathogenesis 2020 / art. 103933, 9 p. : ill <https://doi.org/10.1016/j.micpath.2019.103933> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Endophytic fungi-alternative sources of cytotoxic compounds : a review

Uzma, Faszilath; Mohan, Chakrabhavi D.; Hashem, Arbeer; **Gupta, Vijai Kumar** Frontiers in pharmacology 2018 / art. 309, 37 p. : ill <https://doi.org/10.3389/fphar.2018.00309> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Energy production from steam gasification processes and parameters that contemplate in biomass gasifier – a review

Singh Siwal, Samarjeet; Zhang, Qibo; Sun, Changbin; Thakur, Sourbh; **Gupta, Vijai Kumar**; Kumar Thakur, Vijay Bioresource Technology 2020 / Art. nr. 122481 <https://doi.org/10.1016/j.biortech.2019.122481> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Engineered microbial host selection for value-added bioproducts from lignocellulose

Paula, Renato Graciano de; Antoniêto, Amanda Cristina Campos; **Gupta, Vijai Kumar** Biotechnology Advances 2019 / art. 107347, 18 p. : ill <https://doi.org/10.1016/j.biotechadv.2019.02.003> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Erratum: author correction: Alleviation of drought stress in pulse crops with ACC deaminase producing rhizobacteria isolated from acidic soil of Northeast India (Scientific reports (2018) 8 1 (3560))

Saikia, Juthika; Sarma, Rupak K.; Dhandia, Rajashree; Yadav, Archana; Bharali, Rupjyoti; **Gupta, Vijai Kumar**; Saikia, Ratul Scientific reports 2018 / art. 7000, 1 p. <https://doi.org/10.1038/s41598-018-25174-5> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Erratum: author correction: Insights into the functionality of endophytic actinobacteria with a focus on their biosynthetic potential and secondary metabolites production (Scientific reports (2017) 7 1 (11809))

Passari, Ajit Kumar; Mishra, Vineet Kumar; Singh, Garima; Singh, Pratibha; Kumar, Brijesh; **Gupta, Vijai Kumar**; Sarma, Rupak Kumar; Saikia, Ratul; Donovan, Anthonia O'; Singh, Bhim Pratap Scientific reports 2018 / art. 4650, 1 p.

<https://doi.org/10.1038/s41598-018-22947-w> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Fungal networks and orchid distribution: new insights from above- and below-ground analyses of fungal communities

Pecoraro, Lorenzo; Caruso, Tancredi; Cai, Lei; **Gupta, Vijai Kumar**; Liu, Zhong-Jian IMA Fungus 2018 / p. 45-66

<https://doi.org/10.5598/IMAFUNGUS.2018.09.01.01> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A greener approach to hydrolyse ionic liquids

Sudheer, Surya; Raba, Grete; Kapitanov, Illia; Karpichev, Yevgen; Vilu, Raivo; Gupta, Vijai Kumar; Gathergood, Nicholas Basic & Clinical Pharmacology & Toxicology 2018 International Conference on Biotechnology and Bioengineering (ICBB2018) : 24-26 October 2018, Budapest, Hungary 2018 / p. 21 <https://doi.org/10.1111/bcpt.13165>

Identification, characterization and expression profiles of Fusarium udum stress-responsive WRKY transcription factors in Cajanus cajan under the influence of NaCl stress and Pseudomonas fluorescens OKC

Kumar, Gagan; Bajpai, Raina; Sarkar, Ankita; Mishra, Raj Kumar; **Gupta, Vijai Kumar**; Singh, Harikesh B.; Sarma, Birinchi K.

Scientific reports 2019 / art. 14344, 9 p. : ill <https://doi.org/10.1038/s41598-019-50696-x> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Implications of plant growth promoting Klebsiella sp. CPSB4 and Enterobacter sp. CPSB49 in luxuriant growth of tomato plants under chromium stress

Gupta, Pratishtha; Kumar, Vipin; Usmani, Zeba; Rani, Rupa; Chandra, Avantika; **Gupta, Vijai Kumar** Chemosphere 2020 / Art. nr.

124944 <https://doi.org/10.1016/j.chemosphere.2019.124944> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Improvement of biomass production by Lactobacillus reuteri using double-carbon source cultivation strategy

Selvamani, Shanmugaprakasham; Malek, Roslinda Abd; Ramli, Solleh; Dailin, Daniel Joe; **Gupta, Vijai Kumar**; Sukmawati, Dalia; El-Adawi, Hala I.; Leng, Ong Mei; El Enshasy, Hesham Ali The 2nd Science and Mathematics International Conference (SMIC 2020) : Transforming Research and Education of Science and Mathematics in the Digital Age 2021 / art. 168153

<https://doi.org/10.1063/5.0041975> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Insights into the functionality of endophytic actinobacteria with a focus on their biosynthetic potential and secondary metabolites production

Passari, Ajit Kumar; Mishra, Vineet Kumar; Singh, Garima; Singh, Pratibha; Kumar, Brijesh; **Gupta, Vijai Kumar**; Sharma, Rupak Kumar; Saikia, Ratul; Donovan, Anthonia O'; Singh, Bhim Pratap Scientific reports 2017 / art. 11809, 17 p.

<https://doi.org/10.1038/s41598-017-12235-4> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Integrated transcriptomic, proteomic, and metabolomics analysis reveals peel ripening of harvested banana under natural condition

Yun, Ze; Li, Taotao; Gao, Huijun; Zhu, Hong; **Gupta, Vijai Kumar**; Jiang, Yueming; Duan, Xuewu Biomolecules 2019 / Art. nr. 167

<https://doi.org/10.3390/biom9050167> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Ionic liquid based pretreatment of lignocellulosic biomass for enhanced bioconversion

Usmani, Zeba; Sharma, Minaxi; Gupta, Pratishtha; Karpichev, Yevgen; Gathergood, Nicholas; Bhat, Rajeev; **Gupta, Vijai Kumar**

Bioresource technology 2020 / art. 123003, 13 p <https://doi.org/10.1016/j.biortech.2020.123003> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Land use change : a key ecological disturbance declines soil microbial biomass in dry tropical uplands

Tiwari, Shashank; Singh, Chhatrapal; Boudh, Siddharth; Rai, Pradeep Kumar; **Gupta, Vijai Kumar**; Singh, Jay Shankar Journal of environmental management 2019 / 10 p. : ill <https://doi.org/10.1016/j.jenvman.2019.04.052> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Lignocellulosic biomass (LCB) : a potential alternative biorefinery feedstock for polyhydroxyalkanoates production

Al-Battashi, Huda Sultan; Annamalai, Neelamegam; Sivakumar, Nallusamy; **Gupta, Vijai Kumar** Reviews in Environmental Science and Biotechnology 2019 / p. 183-205 : ill <https://doi.org/10.1007/s11157-018-09488-4> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Lipopolysaccharide-induced priming enhances NO-mediated activation of defense responses in pearl millet challenged with Sclerospora graminicola

Lavanya, S.N.; Udayashankar, A.C.; Raj, S. Niranjana; Mohan, Chakrabhavi Dhananjaya; **Gupta, Vijai Kumar**; Tarasatyavati, C.;

Srivastava, R.; Nayaka, S. Chandra 3 Biotech 2018 / Art. nr. 475 <https://doi.org/10.1007/s13205-018-1501-y> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Metagenome dataset of wheat rhizosphere from Ghazipur region of Eastern Uttar Pradesh

Srivastava, Ruchi; Srivastava, Alok K.; Ramteke, Pramod Wasudeo; **Gupta, Vijai Kumar**; Srivastava, Anchal K. Data in brief 2020 / art. 105094, 4 p. : ill <https://doi.org/10.1016/j.dib.2019.105094> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Metatranscriptome analysis deciphers multifunctional genes and enzymes linked with the degradation of aromatic compounds and pesticides in the wheat rhizosphere

Singh, Dhananjaya P.; Prabha, Ratna; **Gupta, Vijai Kumar**; Verma, Mukesh K. Frontiers in microbiology 2018 / art. 1331, 15 p. : ill <https://doi.org/10.3389/fmicb.2018.01331> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Microbial beta glucosidase enzymes : recent advances in biomass conversation for biofuels application

Srivastava, Neha; Rathour, Rishabh; Jha, Sonam; Pandey, Karan; Srivastava, Manish; Thakur, Vijay Kumar; Sengar, Rakesh Singh; **Gupta, Vijai Kumar**; Mazumder, Pranab Behari; Khan, Ahamad Faiz; Mishra, Pradeep Kumar Biomolecules 2019 / art. 220 <https://doi.org/10.3390/biom9060220> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Microbial engineering biotechnologies : editorial

Singh, Brahma N.; Raghubanshi, Akhilesh S.; Koffas, Mattheos; **Gupta, Vijai Kumar** Biotechnology Advances 2019 / art. 107399, 4 p. : ill <https://doi.org/10.1016/j.biotechadv.2019.05.005> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Microbial Engineering Biotechnologies

Biotechnology Advances Special Issues, Vol. 37, 6

2019 <https://www.sciencedirect.com/journal/biotechnology-advances/vol/37/issue/6>

Microbial inoculation in rice regulates antioxidative reactions and defense related genes to mitigate drought stress

Singh, Dhananjaya P.; Singh, Vivek; **Gupta, Vijai Kumar**; Shukla, Renu; Prabha, Ratna; Sarma, Birinchi K.; Patel, Jai Singh Scientific reports 2020 / art. 4818, 17 p. : ill <https://doi.org/10.1038/s41598-020-61140-w> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Microbial saccharification of wheat bran for bioethanol fermentation

Farkas, Csilla; Rezessy-Szabó, Judit M.; **Gupta, Vijai Kumar**; Truong, Duy H.; Friedrich, László; Felföldi, József; Nguyen, Quang D. Journal of Cleaner Production 2019 / Article nr. 118269 <https://doi.org/10.1016/j.jclepro.2019.118269> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Mitigation of salinity stress in wheat seedlings due to the application of phytohormone-rich culture filtrate extract of methylotrophic actinobacterium Nocardioideae sp. NIMMe6

Meena, Kamlesh K.; Bitla, Utkarsh M.; Sorty, Ajay M.; Singh, Dhananjaya P.; **Gupta, Vijai Kumar**; Wakchaure G.C.; Kumar, Satish Frontiers in microbiology 2020 / art. 2091, 16 p. : ill. <https://doi.org/10.3389/fmicb.2020.02091> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Nanoengineered cellulosic biohydrogen production via dark fermentation : A novel approach

Srivastava, Neha; Srivastava, Manish; Malhotra, Bansi D.; **Gupta, Vijai Kumar** Biotechnology Advances 2019 / art. 107384, 13 p. : ill <https://doi.org/10.1016/j.biotechadv.2019.04.006> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

New insights into the evolution of host specificity of three Penicillium species and the pathogenicity of P. italicum involving the infection of Valencia orange (Citrus sinensis)

Gong, Liang; Liu, Yongfeng; Xiong, Yehui; Li, Taotao; Yin, Chunxiao; Zhao, Juanni; Yu, Jialin; Yin, Qi; **Gupta, Vijai Kumar**; Jiang, Yueming Virulence 2020 / 20 p. : ill <https://doi.org/10.1080/21505594.2020.1773038> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

New insights on bioactivities and biosynthesis of flavonoid glycosides

Yang, Bao; Liu, Huiling; Yang, Jiali; **Gupta, Vijai Kumar**; Jiang, Yueming Trends in food science & technology 2018 / p. 116–124 : ill <https://doi.org/10.1016/j.tifs.2018.07.006> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Non-toxic and ultra-small biosilver nanoclusters trigger apoptotic cell death in fluconazole-resistant Candida albicans via Ras signaling

Prakteeksha; Singh, Braj R.; **Gupta, Vijai Kumar**; Deeba, Farah; Gathergood, Nicholas Biomolecules 2019 / art. 47, 23 p. : ill <https://doi.org/10.3390/biom9020047> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A novel strategy to enhance biohydrogen production using graphene oxidetreated thermostable crude cellulase and sugarcane bagasse hydrolyzate under co-culture system

Srivastava, Neha; Srivastava, Manish; **Gupta, Vijai Kumar** Bioresource technology 2018 / p. 337-345 : ill <https://doi.org/10.1016/j.biortech.2018.09.038> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Optimizing medium components to enhance high cell mass production of biotherapeutic strain lactobacillus reuteri DSM

20016T by statistical method

Selvamani, Shanmugaprakasham; Dailin, Daniel Joe; Rostom, Merit; **Gupta, Vijai Kumar**; El Enshasy, Hesham A. Journal of Scientific and Industrial Research 2020 / p. 798-803 <https://doi.org/10.56042/jsir.v79i9.41715> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Organic nanoparticle-based combinatory approaches for gene therapy

Singh, Brahma N.; Prateeksha; **Gupta, Vijai Kumar**; Chen, Jieyin; Atanasov, Atanas G. Trends in biotechnology 2017 / p. 1121-1124 <https://doi.org/10.1016/j.tibtech.2017.07.010> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Phytochemicals as potent modulators of autophagy for cancer therapy

Moosavi, Mohammad Amin; Haghi, Atousa; Rahmati, Marveh; Taniguchi, Hiroaki; Mocan, Andrei; Echeverría, Javier; **Gupta, Vijai Kumar**; Tzvetkov, Nikolay T.; Atanasov, Atanas G. Cancer Letters 2018 / p. 46-69 <https://doi.org/10.1016/j.canlet.2018.02.030> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Production of a recombinant swollenin from Trichoderma harzianum in Escherichia coli and its potential synergistic role in biomass degradation

Santos, Clelton A.; Ferreira-Filho, Jaire A.; O'Donovan, Anthonia; **Gupta, Vijai Kumar**; Tuohy, Maria G.; Souza, Anete P. Microbial cell factories 2017 / art. 83, 11 p. : ill <https://doi.org/10.1186/s12934-017-0697-6> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Progress toward improving ethanol production through decreased glycerol generation in Saccharomyces cerevisiae by metabolic and genetic engineering approaches

Naghshbandi, Mohammad Pooya; Tabatabaei, Meisam; Aghbashlo, Mortaza; **Gupta, Vijai Kumar**; Sulaiman, Alawi; Karimi, Keikhosro; Moghimi, Hamid; Maleki, Mina Renewable and Sustainable Energy Reviews 2019 / Art. 109353 <https://doi.org/10.1016/j.rser.2019.109353> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Proteomics analysis of Fusarium proliferatum under various initial pH during fumonisin production

Li, Taotao; Gong, Liang; Jian, Qijie; Duan, Xuewu; Jiang, Y.; Wang, Yong; Chen, Feng; **Gupta, Vijai Kumar** Journal of proteomics 2017 / p. 59-72 : ill <https://doi.org/10.1016/j.jprot.2017.05.008> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Re-addressing the biosafety issues of plant growth promoting rhizobacteria

Keswani, Chetan; Prakash, Om; Bharti, Nidhi; Vilchez, Juan I.; Sansinenea, Estibaliz; Lally, Richard D.; Borriss, Rainer; Singh, Surya P.; **Gupta, Vijai Kumar**; Fraceto, Leonardo F. Science of the total environment 2019 / p. 841-852 : ill <https://doi.org/10.1016/j.scitotenv.2019.07.046> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Recent advances in essential oils-based metal nanoparticles : a review on recent developments and biopharmaceutical applications

Sana, Siva Sankar; Li, Huizhen; Zhang, Zhijun; Sharma, Minaxi; Usmani, Zeba; Hou, Tianyu; Netala, Vasudeva Reddy; Wang, Xin; **Gupta, Vijai Kumar** Journal of Molecular Liquids 2021 / Art. nr. 115951 <https://doi.org/10.1016/j.molliq.2021.115951> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Recent advances in plasmid-based tools for establishing novel microbial chassis

Nora, Luísa Czamanski; Westmann, Cauã Antunes; Guazzaroni, María-Eugenia; Siddaiah, Chandranayaka; **Gupta, Vijai Kumar**; Silva-Rocha, Rafael Biotechnology Advances 2019 / Art. nr. 107433 <https://doi.org/10.1016/j.biotechadv.2019.107433> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Recent development on sustainable biodiesel production using sewage sludge

Srivastava, Neha; Srivastava, Manish; **Gupta, Vijai Kumar** 3 Biotech 2018 / art. 245, 11 p. : ill <https://doi.org/10.1007/s13205-018-1264-5> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Resveratrol, a popular dietary supplement for human and animal health : quantitative research literature analysis - a review

Yeung, Andy Wai Kan; Aggarwal, Bharat Bhushan; Orhan, Ilkay Erdogan; Horbańczuk, Olaf K.; Barreca, Davide; Battino, Maurizio; Belwal, Tarun; Bishayee, Anupam; Daglia, Maria; **Gupta, Vijai Kumar** Animal science papers and reports 2019 / p. 103-118 : ill https://repositorium.sdum.uminho.pt/bitstream/1822/61287/1/document_51935_1.pdf [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Rhizosphere metagenomics of Paspalum scrobiculatum L. (kodo millet) reveals rhizobiome multifunctionalities

Prabha, Ratna; Singh, Dhananjaya P.; Gupta, Shailendra; **Gupta, Vijai Kumar**; El-Enshasy, Hesham A.; Verma, Mukesh K. Microorganisms 2019 / art. 608, 21 p. : ill <https://doi.org/10.3390/microorganisms7120608> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Role of bacterial-fungal consortium for enhancement in the degradation of industrial dyes

Mawad, Asmaa M.M.; Hesham, Abd El-Latif; Yousef, Naiema M.H.; Shoreit, Ahmed Abdelfattah Mohamed; **Gathergood, Nicholas**; **Gupta, Vijai Kumar** Current genomics 2020 / p. 283 - 294 <https://doi.org/10.2174/1389202921999200505082901> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Scaffold of selenium nanovectors and honey phytochemicals for inhibition of pseudomonas aeruginosa quorum sensing and biofilm formation

Prateeksha; Singh, Braj R.; Shoeb, M.; Sharma, S.; Naqvi, A.H.; **Gupta, Vijai Kumar**; Singh, Brahma N. *Frontiers in cellular and infection microbiology* 2017 / art. 93, 14 p. : ill <https://doi.org/10.3389/fcimb.2017.00093> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Secretome profiling reveals virulence-associated proteins of Fusarium proliferatum during interaction with banana fruit

Li, Taotao; Wu, Yu; Wang, Yong; Gao, Haiyan; **Gupta, Vijai Kumar**; Duan, Xuewu; Qu, Hongxia; Jiang, Yueming *Biomolecules* 2019 / Art. nr. 246 <https://doi.org/10.3390/biom9060246> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Structural and functional insights into WRKY3 and WRKY4 transcription factors to unravel the WRKY–DNA (W-Box) complex interaction in tomato (Solanum lycopersicum L.). A computational approach

Aamir, Mohd; Singh, Vinay Kumar; Meena, Mukesh; Upadhyay, Rams.; **Gupta, Vijai Kumar**; Singh, Surendra *Frontiers in plant science* 2017 / art. 819, 24 p. : ill <https://doi.org/10.3389/fpls.2017.00819> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Sulfoxidation regulation of Musa acuminata Calmodulin (MaCaM) influences the functions of MaCaM-binding proteins

Jiang, Guoxiang; Wu, Fuwang; Li, Zhiwei; Li, Taotao; **Gupta, Vijai Kumar**; Duan, Xuewu; Jiang, Yueming *Plant and Cell Physiology* 2018 / p. 1214-1224 <https://doi.org/10.1093/pcp/pcy057> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Sustainable phenylalanine-derived sails for solubilization of polycyclic aromatic hydrocarbons

Kapitanov, Illia; Sudheer, Surya; Yadav, Toshikee; Ghosh, Kallol K.; Gathergood, Nicholas; **Gupta, Vijai Kumar**; Karpichev, Yevgen *Molecules* 2023 / art. 4185 : ill <https://doi.org/10.3390/molecules28104185> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Synergistic interaction of natamycin with carboxymethyl chitosan for controlling Alternata alternara, a cause of black spot rot in postharvest jujube fruit

Gong, Liang; Zhao, Zhiyong; Yin, Chunxiao; **Gupta, Vijai Kumar**; Zhang, Xianhui; Jiang, Yueming *Postharvest Biology and Technology* 2019 / Art. nr. 110919 <https://doi.org/10.1016/j.postharvbio.2019.05.020> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Synthesis and biodegradation studies of a series of novel L-phenylalanine derived ionic liquids

Kapitanov, Illia; Jordan, Andrew; Haiss, Annette; Špulak, Marcel; **Karpichev, Yevgen**; Raba, Grete; **Gupta, Vijai Kumar**; Vilu, Raivo; Kümmerer, Klaus; **Gathergood, Nicholas** 20th European Symposium on Organic Chemistry ESOC 2017 : July 2-6, 2017, Cologne, Germany : abstracts 2017 / p. OMSC009 : ill

Targeting heparanase in cancer: inhibition by synthetic, chemically modified, and natural compounds

Mohan, Chakrabhavi Dhananjaya; Hari, Swetha; Preetham, Habbanakuppe D.; Rangappa, Shobith; Barash, Uri; Ilan, Neta; Nayak, S. Chandra; **Gupta, Vijai Kumar**; Basappa, S.; Vlodavsky, Israel; Rangappa, Kanchugarakoppal S. *Iscience* 2019 / p. 360 - 390 <https://doi.org/10.1016/j.isci.2019.04.034> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The ectopic overexpression of the cotton Ve1 and Ve2-Homolog sequences leads to resistance response to verticillium wilt in arabidopsis

Chen, Jieyin; Li, Nanyang; Ma, Xuefeng; **Gupta, Vijai Kumar**; Zhang, Dandan; Li, Tinggang; Dai, Xiaofeng *Frontiers in plant science* 2017 / art. 844, 16 p. : ill <https://doi.org/10.3389/fpls.2017.00844> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Transcriptome-wide identification of genes involved in Ascorbate–Glutathione cycle (Halliwell–Asada pathway) and related pathway for elucidating its role in antioxidative potential in finger millet (Eleusine coracana (L.))

Avashthi, Himanshu; Pathak, Rajesh Kumar; Pandey, Neetesh; Arora, Sandeep; Mishra, Amrendra Kumar; **Gupta, Vijai Kumar**; Ramteke, Pramod Wasudeo; Kumar, Anil 3 *Biotech* 2018 / Art. nr. 499 <https://doi.org/10.1007/s13205-018-1511-9> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

uCARE Chem Suite and uCAREChemSuiteCLI : tools for bacterial resistome prediction

Saha, Saurav Bhaskar; **Gupta, Vijai Kumar**; Ramteke, Pramod Wasudeo *Genes and Diseases* 2021 / p. 721 - 729 <https://doi.org/10.1016/j.gendis.2020.06.008> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Use of PCR-denaturing gradient gel electrophoresis for the discrimination of Candida species isolated from natural habitats

El-Latif Hesham, Abd; **Gupta, Vijai Kumar**; Singh, Bhim Pratap *Microbial Pathogenesis* 2018 / p. 19-22 <https://doi.org/10.1016/j.micpath.2018.04.027> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Valorization of fruits and vegetable wastes and by-products to produce natural pigments

Sharma, Minaxi; **Usmani, Zeba**; **Gupta, Vijai Kumar**; Bhat, Rajeev *Critical Reviews in Biotechnology* 2021 / p. 535-563 : ill

