

School of Biotechnology

Devi Ahilya Vishwavidyalaya, Indore

Research Publications

Year -2022	
1.	Golchha NC , Nighojkar A, Nighojkar S. Redefining genomic view of <i>Clostridioides difficile</i> through pangenome analysis and identification of drug targets from its core genome. <i>Drug Target Insights</i> . 2022 Nov 11;16(1):17-24.
2.	Anshu AK, Kumar V, Rani A, Tayalkar T, Parmar HS . Phosphatidylcholine content in soybean: Genetic variability and the effect of growing year. <i>Notulae Scientia Biologicae</i> 2022; 14: 10994.
3.	Himani Chaturvedi, Bhupendra Singh, A Jajoo , Anil Prakash (2022) Shielding of photo-synthetic apparatus by consortia of bacterial endophytes in tomato plants suffering from Fusarium wilt. <i>Frontiers in Agronomy</i> DOI: 10.3389/ fagro.2022. 831731
4.	X Zhu , M Hasanuzzaman, A Jajoo , et al (2022) Improving photosynthetic efficiency through multidiscipline efforts: the next frontier of photosynthesis research. <i>Front. Plant Sci. - Photosynthesis and Photobiology</i> doi:10.3389/fpls.2022.967203 (IF 6.6)
5.	RS Tomar, P Raikalal, A Jajoo (2022) Potential of <i>Chlorella vulgaris</i> for bioremediation of polycyclic aromatic hydrocarbons and their impact on photosynthetic and biochemical functions. <i>Algal Research</i> https://doi.org/10.1016/j.algal.2022.102815 (IF 5.2)
6.	V.S.J. Sunoj , Y. Wen , A. Jajoo, A.W. Short, W.H. Zeng , N.I. Elsheery and K.F. Cao (2022) Moderate photoinhibition of PSII and oxidation of P700 contribute to chilling tolerance of tropical tree species in subtropics of China. <i>Photosynthetica</i> . DOI 10.32615/ps.2022.039
7.	RS Tomar, R Atre, D Sharma, P Raikalal, A Jajoo (2022) Light intensity affects tolerance of pyrene in <i>C. vulgaris</i> and <i>S. Acutus</i> . Accepted in <i>Photosynthetica</i> .
8.	L Jain and A Jajoo (2022) Diminishing toxicity of pyrene on photosynthetic performance of soybean using <i>Bacillus subtilis</i> (NCIM 5594). Under Revision in <i>Functional Plant Biology</i> .
9.	P Raikalal, RS Tomar, A Jajoo (2022) SiO ₂ nanopriming protects PS I and PSII complexes in wheat under drought stress. <i>Plant Nano Biology</i>
10.	K Paliwal, RS Tomar, A Jajoo et al (2022) "Characterization of the effective antifungal metabolite from <i>Pseudomonas fluorescens</i> and Evaluating the Biocontrol Potential against Soybean pathogenic Fungus- <i>Rhizoctonia solani</i> .
11.	Kashyap D, Varshney N, Parmar HS , Jha HC. Gankyrin: At the crossroads of cancer diagnosis, disease prognosis, and development of efficient cancer therapeutics. <i>Advances in Cancer Biology - Metastasis</i> . 2022; 4: 100023
12.	Tripathi V, Jaiswal P, Assaiya A, Kumar J, Parmar HS . Anti-Cancer Effects of 5-Aminoimidazole-4-Carboxamide-1-β-D-Ribofuranoside (AICAR) on Triple-Negative Breast Cancer (TNBC) Cells: Mitochondrial Modulation may be an Underlying Mechanism. <i>Curr Cancer Drug Targets</i> . 2022(Accepted) (Impact factor 3.428).
13.	Parmar HS , Nayak A, Kataria S, Tripathi V, Jaiswal P, Gavel PK, Jha HC, Bhagwat S, Dixit AK, Lukashovich V, Das AK, Sharma R. Restructuring the ONYX-015 adenovirus by using spike protein genes from SARS-CoV-2 and MERS-CoV: Possible implications in breast cancer treatment. <i>Med Hypotheses</i> . 2022 Feb;159:110750. (Impact factor 1.538).

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14.	Kashyap D, Varshney N, Parmar HS, Jha HC. Gankyrin: At the crossroads of cancer diagnosis, disease prognosis, and development of efficient cancer therapeutics. <i>Advances in Cancer Biology - Metastasis</i> . 2021 (Accepted)
15.	Rani A, Jakhmola S, Karnati S, Parmar HS , Jha HC. Potential entry receptors for human γ -herpesvirus into epithelial cells: A plausible therapeutic target for viral infections. Tumor Virus Research , 2021; 12: 200227.
16.	Choudhary V, Gupta A, Parmar HS, Sharma R. Therapeutically effective covalent spike protein inhibitors in treatment of SARS-CoV-2: A review. <i>Journal of Proteins and Proteomics</i> , 2021; 15: 1-14.
17.	Tripathi V, Jaiswal P, Assaiya A, Kumar J, Parmar HS*. Anti-cancer effects of AICAR on triple-negative breast cancer (TNBC) cells: mitochondrial modulation may be an underlying mechanism. <i>Current Cancer Drug Targets</i> 2021. (Accepted) (Impact factor 3.428).
18.	Parmar HS*, Nayak A, Kataria S, Tripathi V, Jaiswal P, Gavel PK, Jha HC, Bhagwat S, Dixit AK, Lukashevich V, Das AK, Sharma R. Restructuring the ONYX-015 adenovirus by using spike protein genes from SARSCoV-2 and MERS-CoV: Possible implications in breast cancer treatment. <i>Medical Hypotheses</i> , 2021 (Accepted) (Impact factor 1.538).
19.	Jha, P., Kumar, V., Rani, A. and Kumar, A. (2021) Genomic regions governing the biosynthesis of sucrose and raffinose family oligosaccharides in soybean. <i>J. Plant Biochem. Biotechnol.</i> In press
20.	S Mathur, R Agnihotri, M P. Sharma, V R. Reddy and A Jajoo (2021) Effect of High-Temperature Stress on Plant Physiological Traits and Mycorrhizal Symbiosis in Maize Plants. <i>Journal of Fungi</i>
21.	S Mathur, V S John Sunoj, N Ibrahim Elsheery, V R. Reddy, A Jajoo and Kun-Fang Cao1 (2021), Regulation of Photosystem II Heterogeneity and Photochemistry in Two Cultivars of C4 Crop Sugarcane Under Chilling Stress. <i>Frontiers in Plant Science</i> .
22.	S Mathur and A Jajoo (2021) Role of arbuscular mycorrhizal fungi as an underground saviuor for protecting plants from abiotic stresses. <i>Physiol Mol Biol Plants</i> https://doi.org/10.1007/s12298-021-01091-2
23.	P Rai-kalal, A Gupta, A Jajoo (2021) Foliar spray of Zn nanoparticles improves photosynthesis in wheat. <i>Research and reviews in Biotechnology</i>
24.	Jaiswal P, Tripathi V, Nayak A, Kataria S, Lukashevich V, Das AK, Parmar HS. A molecular link between diabetes and breast cancer: Therapeutic potential of repurposing incretin-based therapies on breast cancer. <i>Current Cancer Drug Targets</i> 2021.(Impact factor 3.428).
25.	Kripnerová M, Parmar HS, Šána J, Kopková A, Radová L, Sopper S, Biernacki K, Jedlička J, Kohoutová M, Kuncová J, Peychl J, Rudolf E, Červinka M, Houdek Z, Dvořák P, Houfková K, Pešta M, Tůma Z, Dolejšová M, Tichánek F, Babuška V, Leba M, Slabý O, Hatina J. Complex interplay of genes underlies invasiveness in fibro-sarcoma progression model. <i>Journal of Clinical Medicine</i> 2021 (Accepted) (IF: 4.241).
26.	Parmar HS, Nayak A, Gavel PK, Tripathi V, Jaiswal P, Jha H, Bhagwat S, Sharma S. Cross talk between COVID-19 and breast cancer. <i>Current Cancer Drug Targets</i> 2021. (Impact factor 3.428).
27.	Matkawala F, Nighojkar S, Kumar A, Nighojkar A, Microbial alkaline serine proteases: Production, properties and applications <i>World Journal of Microbiology and Biotechnology</i> (2021) 37:63 https://doi.org/10.1007/s11274-021-03036-z
28.	P Raikalal, RS Tomar, A Jajoo (2021) H2O2 signalling regulates seed germination in ZnO nanoprimmed wheat (<i>Triticum aestivum</i> L.) seeds for improving plant performance under drought stress. <i>Env Exp Botany</i> , 10.1016/j.envexpbot.2021.104561

29.	B Singh and A Jajoo (2021) Cyclic electron flow plays an important role in protecting PSI against fluoride stress in maize plant. <i>Journal of Soil Science and Plant Physiology</i> 3(2): 140-146, DOI: https://doi.org/10.36266/JSSPP/140
30.	TA Singh et al (2021) Tapping into actinobacterial genomes for natural product discovery. Accepted in <i>Frontiers in Microbiology</i> DOI: 10.3389/fmicb.2021.655620
31.	P Rai-Kalal, RS Tomar, A Jajoo (2021) Seed nanoprimering by Silicon oxide improves drought stress alleviation potential in wheat plant. <i>Functional Plant Biology</i> . https://doi.org/10.1071/FP21079
32.	RS Tomar, S Kataria, A Jajoo (2021) Behind the scene: Critical role of ROS and RNS in salt stress tolerance. <i>Journal of Agronomy and Crop Science</i> , http://doi.org/10.1111/jac.12490
33.	Divya Agrawal and Anjana Jajoo (2021) Study of high temperature stress induced damage and recovery in photosystem II (PSII) and photosystem I (PSI) in Spinach leaves (<i>Spinacia oleracea</i>). <i>Journal of Plant Biochemistry and Biotechnology</i> , 1-13. DOI 10.1007/s13562-020-00643-z
34.	Prabha Rai-Kalal and Anjana Jajoo (2021) Priming with Zinc oxide nanoparticles improve germination and photosynthetic performance in wheat. <i>Plant Physiology and Biochemistry</i> , https://doi.org/10.1016/j.plaphy.2021.01.032
35.	Sonal Mathur, John Sunoj, Nabil I Elsheery, Vangimalla R Reddy, Anjana Jajoo, Kunfang Cao (2021) Regulation of Photosystem II heterogeneity and Photochemistry in two cultivars of C4 crop Sugarcane under Chilling stress. <i>Frontiers in Plant Science</i> . DOI:10.3389/fpls.2021.627012
36.	Rupal Singh Tomar, Anjana jajoo (2021) Enzymatic pathway involved in the degradation of fluoranthene by microalgae <i>Chlorella vulgaris</i> . <i>Ecotoxicology</i> . DOI : 10.1007/s10646-020-02334-w
37.	Shah, S. and Kumar, A. (2021) Production and characterization of polyhydroxyalkanoates from industrial waste using soil bacterial isolates. <i>Brazilian J. Microbiol.</i>
38.	Maravi, P. and Kumar, A. (2021) Optimization and statistical modeling of microbial cellulase production using submerged culture. <i>J. Appl. Biol. Biotechnol.</i>
39.	Dukariya, G. and Kumar, A. (2021) Statistical Optimization of Chitinase Production by Box-Behnken Design in Submerged Fermentation using <i>Bacillus cereus</i> GS02. <i>J. Appl. Biol. Biotechnol.</i>
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40.	Parmar HS, Nayak A, Gavel PK, Tripathi V, Jaiswal P, Jha H, Bhagwat S, Sharma S. 2020 Cross talk between COVID-19 and breast cancer. <i>Current Cancer Drug Targets</i> . (Impact factor 2.947).
41.	Hatina J, Kripnerova M, Parmar HS, Houdek Z, Dvorak P, Houkova K, Pesta M, Kuncova J, Sopper S, Radova L, Sana J, Slaby O. Insight into sarcoma biology from sarcoma cell line progression series. <i>Research Journal of Oncology</i> . 2020, 4: 1-2. (Abstract Published) (Impact factor 4.3).
42.	Singh, G., Dukariya, G. and Kumar, A. (2020) Distribution, Importance and Diseases of Soybean and Common Bean: A Review. <i>Biotechnol. J. International</i> .
43.	Shah, S., Dukariya, G. and Kumar, A. (2020) Potential of Ginger as a cure to incurable diseases. <i>J. Nutr. Biol.</i> 6 (1): 412-419.
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93.	Gavel P, Dev D, Parmar HS, Bhasin S and Das AK (2018), Investigation of peptide-based biocompatible injectable shape memory hydrogels: Differential biological effects on bacterial and Human cells, ACS Applied Materials & Interfaces, DOI: 10.1021/acsami.8b00501.
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