

School of Biotechnology

Devi Ahilya Vishwavidyalaya, Indore

Research Publications

Year -2023	
1.	S Mathur, B Seo, A Jajoo , KR Reddy, VR Reddy (2023) Chlorophyll fluorescence is a potential indicator to measure photochemical efficiency in early to late soybean maturity groups under changing day lengths and temperatures. <i>Frontiers in Plant Science</i> DOI: 10.3389/fpls.2023.1228464
2.	A. Gautam, SV Sai Prasad, A Jajoo , FM Bassi (2023) Evaluation of Indian durum wheat genotypes for yield and quality traits using Additive Main-Effects and Multiplicative Interaction (AMMI) biplot analysis under terminal heat stress conditions. Accepted in <i>Crop Breeding, Genetics and Genomics</i>
3.	K Paliwal, A Jajoo , RS Tomar, A Prakash, A Syed, JP Bright, RZ Sayyed (2023) Enhancing Biotic Stress Tolerance in Soybean Affected by <i>Rhizoctonia solani</i> Root Rot Through an Integrated Approach of Biocontrol Agent and Fungicide. <i>Current Microbiology</i> (2023) 80:304, https://doi.org/10.1007/s00284-023-03404-y
4.	Ratnaparkhe et al (2023) Genomic Designing for Abiotic Stress Tolerant Soybean. Book Chapter in C. Kole (ed.) <i>Genomic Designing for Abiotic Stress Resistant Oilseed Crops</i> , https://doi.org/10.1007/978-3-030-90044-1_1 , Springer Nature Switzerland
5.	A. Jajoo , S. Rajagopal, G Garab, S Allakhverdiev (2023) Honouring two stalwarts of photosynthesis research: Eva-Mari Aro and Govindjee. <i>Photosynth Res</i> https://doi.org/10.1007/s11120-022-00988-7
6.	Baral B , Muduli K , Jakhmola S, Indari O, Jangir J, Rashid AH, Jain S, Mohapatra AK, Patro S, Parida P, Misra N, Mohanty AP, Sahu BR, Jain A, Elangovan S, Parmar HS , Tanveer M, Mohakud NK, Hem Chandra Jha. Redefining lobe-wise ground-glass opacity in COVID-19 through deep learning and its correlation with biochemical parameters. <i>IEEE Journal of Biomedical and Health Informatics</i> 2023 (In Press) (Impact factor 7.021).
7.	Kashyap D, Varshney N, Baral B, Kandpal M, Indari O, Jain AK, Chatterji D, Kumar S, Parmar HS , Sonawane A, Jha HC. <i>Helicobacter pylori</i> infected gastric epithelial cells bypass cell death pathway through the oncoprotein Gankyrin. Advances in Cancer Biology-Metastasis . Accepted (2023).
8.	Kaushik A, Sangtani R, Parmar HS * Bala K. Algal Metabolites: Paving the Way Towards New Generation Anti-diabetic Therapeutics. <i>Algal Research</i> 2023; 69: 102904. (Impact factor 5.276).
Year -2022	
9.	Tripathi V, Jaiswal P, Sahu K, Majumder SK, Kashyap D, Jha HC, Dixit AK, Parmar HS* . Repurposing of metabolic drugs and mitochondrial modulators as an emerging class of cancer therapeutics with a special focus on breast cancer. Advances in Cancer Biology-Metastasis 2022; 6 : 100065. (In Press).
10.	Jaiswal P, Tripathi V, Assaiya A, Kashyap D, Dubey R, Singh A, Kumar J, Jha HC, Sharma

	R, Dixit AK, Parmar HS* . Anti-cancer effects of sitagliptin, vildagliptin, and exendin-4 on triple-negative breast cancer cells via mitochondrial modulation. BIOCELL 2022; 46: 2645-2657. (Impact factor 1.11).
11.	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. Curr Cancer Drug Targets 2022; 22 : 245-256. (Impact factor 3.516).
12.	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.
13.	Jha, P. , Kumar, V., Rani, A. and Kumar, A. (2022) Genomic regions governing the biosynthesis of sucrose and raffinose family oligosaccharides in soybean. <i>J. Plant Biochem. Biotechnol.</i> 31(3): 637-647. https://doi.org/10.1007/s13562-021-00756-z
14.	Anshu AK, Kumar V, Rani A, Tayalkar T, Parmar HS . Phosphatidylcholine content in soybean: Genetic variability and the effect of growing year. Notulae Scientia Biologicae 2022; 14: 10994.
15.	Himani Chaturvedi, Bhupendra Singh, A Jajoo , Anil Prakash (2022) Shielding of photosynthetic apparatus by consortia of bacterial endophytes in tomato plants suffering from Fusarium wilt. <i>Frontiers in Agronomy</i> DOI: 10.3389/fagro.2022.831731
16.	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)
17.	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)
18.	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
19.	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> . in <i>Photosynthetica</i> .
20.	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> .
21.	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>
22.	K Paliwal, RS Tomar, A Jajoo et al (2022) "Characterization of the effective antifungal metabolite from <i>Pseudomonas fluorescence</i> and Evaluating the Biocontrol Potential against Soybean pathogenic Fungus- <i>Rhizoctonia solani</i> .
23.	Kashyap D, Varshney N, Parmar HS , Jha HC. Gankyrin: At the crossroads of cancer diagnosis, disease prognosis, and development of efficient cancer therapeutics. Advances in Cancer Biology -Metastasis . 2022; 4: 100023
24.	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).
25.	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 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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26.	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)
27.	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.
28.	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.
29.	Jha, P., Kumar, V., Rani, A. and Kumar, A. (2021) Mapping QTLs controlling the biosynthesis of maltose in soybean. <i>Romanian Biotechnol. Lett.</i> 26(5): 2936-2941.
30.	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).
31.	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).
32.	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
33.	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>
34.	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> .
35.	S Mathur and A Jajoo (2021) Role of arbuscular mycorrhizal fungi as an underground saviour for protecting plants from abiotic stresses. <i>Physiol Mol Biol Plants</i> https://doi.org/10.1007/s12298-021-01091-2
36.	P Rai-kalal, A Gupta, A Jajoo (2021) Foliar spray of Zn nanoparticles improves photosynthesis in wheat. <i>Research and reviews in Biotechnology</i>
37.	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).
38.	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).

39.	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).
40.	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
41.	P Raikalal, RS Tomar, A Jajoo (2021) H ₂ O ₂ signalling regulates seed germination in ZnO nanoprimed 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
42.	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
43.	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
44.	P Rai-Kalal, RS Tomar, A Jajoo (2021) Seed nanopriming by Silicon oxide improves drought stress alleviation potential in wheat plant. <i>Functional Plant Biology</i> . https://doi.org/10.1071/FP21079
45.	Jha, P., Kumar, V., Rani, A. and Kumar, A. (2021) Investigation on the Genetic variability of soybean seed sucrose content in germplasm accessions from different country of origin. <i>Biosci. Biotechnol. Res. Commun.</i> 14(2): 704-707.
46.	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
47.	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
48.	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
49.	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
50.	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
51.	Shah, S. and Kumar, A. (2021) Production and characterization of polyhydroxyalkanoates from industrial waste using soil bacterial isolates. <i>Brazilian J. Microbiol.</i>
52.	Maravi, P. and Kumar, A. (2021) Optimization and statistical modeling of microbial cellulase production using submerged culture. <i>J. Appl. Biol. Biotechnol.</i>
53.	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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54.	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).
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56.	Singh, G., Dukariya, G. and Kumar, A. (2020) Distribution, Importance and Diseases of Soybean and

	Common Bean: A Review. <i>Biotechnol. J. International</i> .
57.	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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61.	Dukariya, G. and Kumar, A. (2020) Distribution and Biotechnological Applications of Chitinase: A Review. <i>International J. Biochem. Biophys.</i> 8(2): 17-29. DOI: https://doi.org/10.13189/ijbb.2020.080201
62.	Kumar, A. (2020) Food Allergy: Symptoms, Diagnosis and Treatment. <i>SunText Rev. Biotechnol.</i> 1(1): 101.
63.	Shah, S. and Kumar, A. (2020) Coffee: Constituents and health benefits. <i>Biotechnol. J. International.</i> 24(5): 22-38. DOI: https://doi.org/10.9734/BJI/2020/v24i530115
64.	Dukariya, G., Shah, S., Singh, G. and Kumar, A. (2020) Soybean and its products: Nutritional and health benefits. <i>J. Nutr. Sci. Healthy Diet.</i> 1(2): 22-29.
65.	Shah, S., Matkawala, F., Garg, S. Nighojkar, S., Nighojkar, A. and Kumar, A. (2020) Emerging trends of bio-plastics and its impact on Society. <i>Biotechnol. J. International.</i> 24(4): 1-10. DOI: https://doi.org/10.9734/BJI/2020/v24i430107
66.	Kumar, A. and Garg, S. (2020) Meningitis: Bacterial, viral and fungal disease. <i>Res. Rev. Biosci.</i> 15 (2): 150. DOI: https://doi.org/10.21767/0974-7532.1000150
67.	Sangtani R, Ghosh A, Jha HC, Parmar HS*, Bala K. (2020) Potential of algal metabolites for the development of broad-spectrum antiviral therapeutics: Possible implications in COVID-19 therapy. <i>Phytotherapy Research (Impact factor 4.087)</i> .
68.	Kumar, A. (2020) Gangrene: Types, Characteristics and Treatment. <i>Clin. Dermatol. J.</i> 5 (2). 000211. DOI: https://doi.org/10.23880/cdoaj-16000211
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70.	Dukariya, G. and Kumar, A. (2020) Chitinase production from locally isolated <i>Bacillus cereus</i> GS02 from chitinous waste enriched soil. <i>J. Adv. Biol. Biotechnol.</i> 23: 39-48. DOI: https://doi.org/10.9734/jabb/2020/v23i130137
71.	Maravi. P. and Kumar, A. (2020) Isolation, screening and identification of cellulolytic bacteria from soil. <i>Biotechnol. J. Internatl.</i> 24 (1): 1-8. DOI: https://doi.org/10.9734/BJI/2019/v23i430092
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73.	Sunday, R.M., Obuotor, E.M. and Kumar, A. (2020) Antioxidant and antidiabetic properties of <i>Mimosa pudica</i> seeds in streptozotocin induced diabetic Wistar rats. <i>Asian J. Biotechnol.</i> 12 (1): 1-8. DOI: https://doi.org/10.3923/ajb.2020
74.	Gavel PK, Kumar N, Parmar HS, Das AK. (2020) Evaluation of a Peptide-Based Coassembled Nanofibrous and Thixotropic Hydrogel for Dermal Wound Healing. <i>ACS Applied Bio Materials</i> ; 3:

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75.	B Singh and A Jajoo (2020) Comparative analysis of fluoride inhibition of photosynthesis in C3 (Wheat) and C4 (Maize) plant. Fluoride Journal 53(3), 1-10.
76.	Tanim Arpit Singh, Anjana Jajoo, Sheetal Bhasin (2020) Optimization of various encapsulation systems for efficient immobilization of actinobacterial glucose isomerase. Biocatalysis and Agricultural Biotechnology, Vol. 29 101766, https://doi.org/10.1016/j.bcab.2020.101766
77.	S Mathur, A Jajoo (2020) Arbuscular Mycorrhizal fungi protects maize plants from high temperature stress by regulating photosystem II heterogeneity. Industrial crops and products INDCRO 111934
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80.	Singh B and Jajoo A (2019) Comparative analysis of fluoride inhibition of photosynthesis in C3 (Wheat) and C4 (Maize) plant. Accepted in Fluoride Journal.
81.	Mathur S and Jajoo A (2019) Arbuscular Mycorrhizal fungi protects maize plants from high temperature stress by regulating photosystem II heterogeneity. Industrial crops and products INDCRO 111934
82.	Jain L and Jajoo A (2019) Protection of PSI and PSII complexes of wheat from toxic effect of anthracene by <i>Bacillus Subtilis</i> (NCIM 5594). Photosynthesis Research DOI: 10.1007/s11120-019-00692-z
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