School of Biotechnology
Devi Ahilya Vishwavidyalaya, Indore

Research Publications

	Year -2025
1.	Baral B, Saini V, Singh S, Verma T, Rath D, Jyotirmayee B, Panda P, Patro S, Misra N, Behera M, Muduli K, **Parmar HS**, Meena A, Kumar R, Agrawal S, Mohapatra S, Mohakud N, Jha HC. Integrative Metabolomic and Lipidomic Signatures of SARS-CoV-2 VOCs: Correlations with Hematological and Biochemical Markers. **Journal of Proteome Research** 2025 (In Press) (**Impact Factor 3.60**).
2.	Khan B, Shrivastava N , Sheikh NP , Singh PK , Jha HC , **Parmar HS**. Rabies Vaccines: Journey from Classical to Modern Era. **Veterinary Vaccine** 2025; 4: 100105.
	Year -2024
3.	Tandon A, Baral B, Saini V, Kandpal M, Dixit AK, **Parmar HS**, Meena AK, Jha HC. The Role of *Helicobacter pylori* in Augmenting the Severity of SARS-CoV-2 related gastrointestinal symptoms: An Insight from Molecular Mechanism of Co-infection. **Heliyon** 2024; 10:e37585 (**Impact factor 3.40**).
4.	Baral B, Saini V, Kandpal M, Kundu P, Dixit AK, **Parmar HS**, Meena AK, Trivedi P, Jha HC. The interplay of co-infections in shaping COVID-19 severity: Expanding the scope beyond SARS-CoV2. **Journal of Infection and Public Health**2024; 17: 102486. (**Impact factor 4.70**).
5.	Rani A, Patra P, Verma TP, Singh A, Jain AK, Jaiswal N, Narang S, Mittal N, **Parmar HS**, Jha HC. Deciphering the Association of Epstein-Barr Virus and Its Glycoprotein M Peptide with Neuropathologies in Mice. **ACS Chem Neurosci**. 2024 Mar 4. doi: 10.1021/acschemneuro.4c00012. **(Impact factor 4.20).**
6.	RS Tomar, P Rai-Kalal and **A Jajoo** (2024) Enhancement of growth and bioremediation potential of Chlorella vulgaris by silicon nanoparticles. J Applied Phycology https://doi.org/10.1007/s10811-023-03172-z
7.	RS Tomar, P Rai-Kalal and **A Jajoo** (2024) Enhancing bioremediation potential of microalgae *Chlorella vulgaris* and *Scenedesmus acutus* by NaCl for Pyrene degradation. Biodegradation, https://doi.org/10.1007/s10532-024-10071-8
	Year -2023
8.	Tripathi V, Jaiswal P, Verma R, Sahu Khageswar, Majumder SK, Chakraborty S, Jha HC, **Parmar HS**. Therapeutic influence of simvastatin on MCF-7 and MDA-MB-231 breast cancer cells *via* mitochondrial depletion and improvement in chemosensitivity of cytotoxic drugs. **Advances in Cancer Biology - Metastasis** 2023; **9:** 100110
9.	**Baral B, Saini V, Tandon A, Singh S, Rele S, Dixit AK, Parmar HS, Meena AK, Jha HC.** SARS-CoV-2 Envelope protein induces necroptosis and mediates inflammatory response in lung and colon cells through Receptor Interacting Protein Kinase 1. **Apoptosis** 2023; **28:** 1596-

	1617 **(Impact factor 7.2).**
10.	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. Frontiers in Plant ScienceDOI: 10.3389/fpls.2023.1228464
11.	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 Crop Breeding, Genetics and Genomics
12.	K Paliwal, **A Jajoo**, RS Tomar, A Prakash, A Syed, JP Bright, RZ Sayyed (2023) Enhancing Biotic Stress Tolerance in Soybean Affected by Rhizoctonia solani Root Rot Through an Integrated Approach of Biocontrol Agent and Fungicide. Current Microbiology (2023) 80:304, https://doi.org/10.1007/s00284-023-03404-y
13.	Ratnaparkhe et al (2023) Genomic Designing for Abiotic Stress Tolerant Soybean. Book Chapter in C. Kole (ed.) Genomic Designing for Abiotic Stress Resistant Oilseed Crops, https://doi.org/10.1007/978-3-030-90044-1_1, Springer Nature Switzerland
14.	**A. Jajoo**, S. Rajagopal, G Garab, S Allakhverdiev (2023) Honouring two stalwarts of photosynthesis research: Eva-Mari Aro and Govindjee. Photosynth Res https://doi.org/10.1007/s11120-022-00988-7
15.	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. IEEE Journal of Biomedical and Health Informatics 2023 27: 2782-2793 **(Impact factor 7.70).**
16.	Kashyap D, Varshney N, Baral B, Kandpal M, Indari O, Jain AK, Chatterji D, Kumar S, **Parmar HS**, Sonawane A, Jha HC.Helicobacter pylori infected gastric epithelial cells bypass cell death pathway through the oncoprotein Gankyrin. **Advances in Cancer Biology-Metastasis** 2023; **7:** 100087.
17.	Kaushik A, Sangtani R, Parmar HS * Bala K. Algal Metabolites: Paving the Way Towards New Generation Anti-diabetic Therapeutics. **Algal Research** 2023; **69**: 102904. **(Impact factor 5.10)**
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18.	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).
19.	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).
20.	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).**

21.	**Golchha NC**, Nighojkar A, Nighojkar S. Redefining genomic view of Clostridioides difficile through pangenome analysis and identification of drug targets from its core genome. Drug Target Insights. 2022 Nov 11;16(1):17-24.
22.	**Jha, P.,** Kumar, V., Rani, A. and Kumar, A. (2022) Genomic regions governing the biosynthesis of sucrose and raffinose family oligosaccharides in soybean. J. Plant Biochem. Biotechnol. 31(3): 637-647. https://doi.org/10.1007/s13562-021-00756-z
23.	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.
24.	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. Frontiers in Agronomy DOI: 10.3389/ fagro.2022. 831731
25.	X Zhu , M Hasanuzzaman, **A Jajoo**, et al (2022) Improving photosynthetic efficiency through multidiscipline efforts: the next frontier of photosynthesis research. Front. Plant Sci. - Photosynthesis and Photobiology doi:10.3389/fpls.2022.967203 (IF 6.6)
26.	RS Tomar, P Raikalal, **A Jajoo** (2022) Potential of Chlorella vulgaris for bioremediation of polycyclic aromatic hydrocarbons and their impact on photosynthetic and biochemical functions. Algal Research https://doi.org/10.1016/j.algal.2022.102815 (IF 5.2)
27.	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. Photosynthetica. DOI 10.32615/ps.2022.039
28.	RS Tomar, R Atre, D Sharma, P Raikalal, **A Jajoo** (2022) Light intensity affects tolerance of pyrene in C. vulgaris and S. Acutus. in Photosynthetica.
29.	L Jain and **A Jajoo** (2022) Diminishing toxicity of pyrene on photosynthetic performance of soybean using Bacillus subtilis (NCIM 5594). Under Revision in Functional Plant Biology.
30.	P Raikalal, RS Tomar, **A Jajoo** (2022) SiO2 nanopriming protects PS I and PSII complexes in wheat under drought stress. Plant Nano Biology
31.	K Paliwal, RS Tomar, **A Jajoo** et al (2022) "Characterization of the effective antifungal metabolite from Pseudomonas fluorescence and Evaluating the Biocontrol Potential against Soybean pathogenic Fungus- Rhizoctonia solani.
32.	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
33.	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**(Accepted) (Impact factor 3.428).**
34.	**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. Med Hypotheses. 2022 Feb;159:110750. (**Impact factor 1.538**).

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35.	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. 2021 (Accepted)
36.	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.
37.	Choudhary V, Gupta A, Parmar HS, Sharma R. Therapeutically effective covalent spike protein inhibitors in treatment of SARS-CoV-2: A review. Journal of Proteins and Proteomics, 2021; 15: 1-14.
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41.	Jha, P., Kumar, V., Rani, A. and Kumar, A. (2021) Genomic regions governing the biosynthesis of sucrose and raffinose family oligosaccharides in soybean. J. Plant Biochem. Biotechnol. In press
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43.	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. Frontiers in Plant Science.
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45.	P Rai-kalal, A Gupta, A Jajoo (2021) Foliar spray of Zn nanoparticles improves photosynthesis in wheat. Research and reviews in Biotechnology
46.	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. Current Cancer Drug Targets 2021.(Impact factor 3.428).
47.	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. Journal of Clinical Medicine 2021 (Accepted) (IF: 4.241).
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49.	Matkawala F, Nighojkar S, Kumar A, Nighojkar A, Microbial alkaline serine proteases: Production, properties and applications World Journal of Microbiology and Biotechnology (2021) 37:63 https://doi.org/10.1007/s11274-021-03036-z
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	stress. Env Exp Botany, 10.1016/j.envexpbot.2021.104561
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