

## Publications

**Department of Biotechnology  
(2018 - Onwards)**

S.No.	Details of Publications
1.	A. Saxena, A. Jain, P. Upadhyay, and P. Gauba. "Applications of nanotechnology in Agriculture. <i>Journal of Nanoscience Nanoengineering and Applications</i> ", 8(1), pp.20-27; 2018
2.	A. Saxena and P. Gauba. "Carbon Sequestration: A Solution to Global Problem". <i>World Journal of Pharmaceutical Research</i> ,7(16), 189-202;2018
3.	R. Barnwal and P. Gauba, "Impact of Antibiotics on Plant Growth "World <i>Journal of Pharmaceutical Research</i> ,7(18), 684-688 , 2018
4.	P. Chauhan, S. Agrawal, Gauba P. "Status of Ambient Air Quality In Selected State Capitals And Metroploitan Cities Of India", <i>International Journal of Current Advanced Research</i> ,7;3(A),10504-10509; 2018
5.	S. Singh., S. Agarwal, S. R. Chaudhary and P. Gauba. "THE ODD EVEN EXPERIMENT IN DELHI" <i>International Journal of Current Advanced Research</i> ,7(1), 9319-9322; 2018
6.	E. Bhatt, P. Gauba, "Impact of Antibiotics on Plants", <i>Int. J. Pharm. Sci. Rev. Res</i> , 52(1), 2018
7.	G. Sharma, S. Dang, S. Gupta, R. Gabrani, "Antibacterial Activity, Cytotoxicity and Mechanism of Action of Bacteriocin from Bacillus subtilis GAS101". <i>Med Princ Pract</i> , vol. 27, pp. 186, 2018
8.	Jain, A., & Rani, V. Anti-hypotensive drug induced cardiotoxicity: an in vitro study. <i>In Vitro Cellular &amp; Developmental Biology-Animal</i> , 54(2), 92-98, 2018
9.	A. Jain and V. Rani, "Assessment of herb-drug synergy to combat doxorubicin induced cardiotoxicity," <i>Life Sci.</i> , vol. 205, pp. 97–106, 2018
10.	S. Kumar, R. Kaur, R. Rajput, M. Singh, "Bio Pharmaceutics Classification System (BCS) Class IV Drug Nanoparticles: Quantum Leap to Improve Their Therapeutic Index", <i>Advance Pharmaceutical Bulletin</i> , 8(4), 617-625,2018
11.	A. Bhagat and Rachana "Bromhexine: a comprehensive review". <i>Int J Biol Med Res</i> .vol 9(3): pp 6455-6459, 2018
12.	D. Rani, R. Saxena, B. Nayak, S. Srivastava, "Cloning and expression of truncated ORF2 as a vaccine candidate against Hepatitis E Virus", <i>3Biotech</i> vol 8 pp 414-418, 2018
13.	P. Bhardwaj, C.K. Jain, A. Mathur. "Comparative evaluation of four triterpenoid glycoside saponins of Bacoside A in alleviating sub-cellular oxidative stress of N2a neuroblastoma cells", <i>Journal of Pharmacy and Pharmacology</i> , Vol. 70, pp. 1531-1540, 2018
14.	K. Singhal,S. Mohanty, "Comparative genomics reveals the presence of putative Toxin-Antitoxin system in Wolbachia genomes" <i>Molecular Genetics and Genomics</i> , vol. 293(2):pp.525-540, 2018
15.	A. Jain and V. Rani, "Curcumin-mediated effects on anti-diabetic drug-induced cardiotoxicity," <i>3 Biotech</i> , vol. 8, no. 9, 2018

16.	R. Kaur, S. Verma, P. Joshi, S. P. Singh, M. Singh. "Cytotoxicity of Graphene Oxide (GO) and Graphene Oxide Conjugated Losartan Potassium (GO-LP) on Neuroblastoma (NB41A3) Cells", <i>Journal of Nanoscience and Nanotechnology</i> , 18, 1–11, 2018
17.	Atinderpal, K., Navya Kapoor, Sonal Gupta, A. Tyagi, R K Sharma, J. Ali, ReemaGabrani, And Shweta Dang. "Development and Characterization of Green Tea Catechins and Ciprofloxacin-loaded Nanoemulsion for Intravaginal Delivery to Treat Urinary Tract Infection." <i>Indian J Pharm Sci</i> 80, no. 3 (2018): 442-452
18.	S. Saxena, A. Gupta, V. Shukla, and V. Rani, "Functional annotation of differentially expressed fetal cardiac microRNA targets: implication for microRNA-based cardiovascular therapeutics," <i>3 Biotech</i> , 8 (12), 494, 2018
19.	A. Chhabra and V. Rani, "Gel-based gelatin zymography to examine matrix metalloproteinase activity in cell culture," <i>Methods in Molecular Biology</i> , vol. 1731, pp. 83–96,2018
20.	S. Dubey, A. Gupta, A. Khare, G. Jain, S. Bose, and V. Rani, "Long- and short-term protective responses of rice seedling to combat Cr(VI) toxicity," <i>Environ. Sci. Pollut. Res.</i> , vol. 25, no. 36, pp. 36163–36172, 2018
21.	N. Taneja, Priyadarshini, "Mass Spectrometric Analysis of Proteins of L6 Skeletal Muscle Cells Under Different Glucose Conditions and Vitamin D Supplementation", <i>Protein &amp; Peptide Letters</i> , vol. 25, 2018
22.	M. Verma., S. Bhattacharya, "miRNA in oncogenesis", <i>Trends in Cancer Research and Chemotherapy</i> . vol 1(2), pp. 1-4, 2018
23.	N. Saxena, N. Taneja, P. Shome, S. Mani, "Mitochondrial donation: A boon or curse for the treatment of incurable mitochondrial diseases", <i>Journal of Human Reproductive Sciences</i> , Vol. 11, pp. 3-9, 2018
24.	A. Negi, P. Singh, N. Taneja, S. Mani, "Molecular-Docking Study of Anti-Stress Natural Compounds Against GABA <sub>A</sub> Receptor Portends the Novel Approach to Stress Treatment". <i>Journal of Applied Pharmaceutical Science</i> . Vol 8, pp. 38-43, 2018
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27.	S. Kumar, S. Dang, K. Nigam, J. Ali, S. Baboota, "Selegiline nanoformulation in attenuation of oxidative stress and upregulation of dopamine in the brain for the treatment of Parkinson's disease." <i>Rejuvenation research</i> , Vol 21(5), 2017.2035, 2018
28.	S. Dubey, M. Shri, A. Gupta, V. Rani, and D. Chakrabarty, "Toxicity and detoxification of heavy metals during plant growth and metabolism," <i>Environmental Chemistry Letters</i> , vol. 16, no. 4. pp. 1169–1192, 2018
29.	S. Sharma, J. Zapatero-Rodríguez, R. Saxena, R.O'. Kennedy and S. Srivastava, "Ultrasensitive direct impedimetric immunosensor for detection of serum HER2" <i>Biosensors and Bioelectronics</i> , Vol 106, pp 78-85, 2018
30.	N. Taneja, S. Mani, "Vitamin D status influences mitochondrial metabolic activity and hyperglycaemic condition of skeletal muscle cells", <i>Journal of Pharmacy Research</i> , vol 12, pp. 221-226, 2018

31.	P. Bhardwaj, N. Goswami, P. Narula, C.K. Jain, A. Mathur. "Zinc Oxide nanoparticles (ZnO NP) mediated regulation of bacoside biosynthesis and transcriptional correlation of HMG-CoA reductase gene in suspension culture of <i>Bacopa monnieri</i> ". <i>Plant Physiology and Biochemistry</i> , 130. 148-156, 2018
32.	D. Verma, S. Gupta, K. J. Kaur and V. Gupta. "Is perturbation in the quaternary structure of bacterial CysE, another regulatory mechanism for cysteine synthesis?" <i>International Journal of Biological macromolecules</i> , Vol. 111, pp. 1010-1018, 2018
33.	S. Gupta, A. M. Lynn and V. Gupta, "Standardization of virtual-screening and post-processing protocols relevant to in-silico drug discovery." <i>3 Biotech</i> . Vol. 8:504, 2018
34.	V Khare, S. Singh, N.Mehra, S. Akhter and C. K. Jain, fMRI: A Benediction to Neuroscience, <i>International Journal of Robotics and Automation Technology</i> , Vol 5, 14-22, 2018
35.	Pooja Upadhyay, Arushi Saxena, Pammi Gauba "Biological Analysis Of Yamuna River"; <i>Journal of Materials Science and Surface Engineering</i> , 6 (6), 905-908, 2019
36.	G. Maheshwari, K. Setia, P. Gauba "Exploring Phytoremediation Potential For Estrogen Hormone" <i>International Journal of Research and Review</i> , Vol.6; Issue 9; September 2019; 195-202
37.	D. Verma, S. Gupta, R. Saxena, P. Kaur, R. Rachana, S. Srivastava, V. Gupta, "Allosteric inhibition and kinetic characterization of <i>Klebsiella pneumoniae</i> CysE: An emerging drug target." <i>International journal of biological macromolecules</i> . 2019
38.	R. Saxena & S. Srivastava, "An insight into impedimetric immunosensor and its electrical equivalent circuit," <i>Sensors and Actuators B: Chemical</i> , VOL. 297, pp. 126-780, 2019
39.	UL. Raj, M. Gautam, S. Dang, R. Gabrani, "Antibacterial and antibiofilm activities of trans-cinnamaldehyde nanoemulsion against <i>Escherichia coli</i> " <i>Asian J Pharm Clin Res</i> , vol. 12, pp. 301-304, 2019
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41.	Kuldeep Nigam, Atinderpal Kaur, Amit Tyagi, Kailash Manda, Reema Gabrani, Shweta Dang "Baclofen-Loaded Poly (D,L-Lactide-Co-Glycolic Acid) Nanoparticles for Neuropathic Pain Management: In Vitro and In Vivo Evaluation", <i>Rejuvenation research</i> , Vol 22(3), pp. 235-245, Jun 2019
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43.	R. Ghildiyal, S. Gupta, R. Gabrani, G. Joshi, A. Gupta, VK. Chaudhary, V. Gupta, "In silico study of chikungunya polymerase, a potential target for inhibitors" <i>Virus Disease</i> , vol. 30(3), pp. 394-402, Sep. 2019
44.	P. Bhardwaj, C. K. Jain, & A. Mathur, "Comparative analysis of saponins, flavonoids, phenolics and antioxidant activities of field acclimatized and in vitro propagated <i>Bacopa monnieri</i> (L.) Pennell from different locations in India." <i>Indian Journal of Experimental Biology</i> , 57 (4), pp.259-268, 2019
45.	S. Agarwal, V. Tyagi, M. Agarwal, A. Pant, H. Kaur & M. Singh, "Controllable Transdermal Drug Delivery of <i>Theobroma cacao</i> Extract Based Polymeric Hydrogel against Dermal Microbial and Oxidative Damage," <i>Food and Nutrition Sciences</i> , 10(10), 1212-1235, 2019

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47.	N. Gupta, K.A. Skinner,S. Khan, J.N. Edirisinghe, & C.S. Henry," Draft Genome Sequence of Enterobacter sp. Strain A8, a Carbazole-Degrading Bacterium," <i>Microbiol Resour Announc</i> , 8(18), e00301-19, 2019
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49.	Priyadarshini, D. Raizada, P. Kumar,T. Singh,T. Pruthi, A. Negi, L. Nigam, & N. Subbarao,"Exploring the modulatory effect of albumin on calcium phosphate crystallization," <i>Current Science</i> , 117(6), 2019
50.	I. Nandi, A. Gupta, VK. Chaudhary, V. Gupta, R. Gabrani*, S. Gupta*, "Expression, purification and functional characterization of recombinant Hyper Variable Region (HVR) of Chikungunya virus nsP3 protein" <i>3Biotech</i> , vol. 9, pp. 235, June 2019
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53.	K. Singhal, & S. Mohanty," Genome organisation and comparative genomics of four novel Wolbachia genome assemblies from Indian Drosophila host" <i>Functional &amp; integrative genomics</i> , 19(4), 617-632, 2019
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56.	A. Negi, & I.P. Sarethy," Microbial Biodeterioration of Cultural Heritage: Events, Colonization, and Analyses," <i>Microbial ecology</i> , 78(4), 1014-1029, 2019
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58.	Kuldeep Nigam, Reema Gabrani, Shweta Dang "Nano-emulsion from Capsaicin: Formulation and Characterization" <i>Materials Today: Proceedings</i> vol 18, pp869-878, 2019
59.	Atinderpal Kaur, Reema Gabrani, Shweta Dang "Nanoemulsions of Green Tea Catechins and Other Natural Compounds for the Treatment of Urinary Tract Infection: Antibacterial Analysis" <i>Advanced pharmaceutical bulletin</i> , vol. 9(3), pp. 401, 2019
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63.	M. Antil, J. Sharma, Y. Brissonnet, M. Choudhary, S. Gouin, & V. Gupta, "Structure-function insights into elusive Mycobacterium tuberculosis protein Rv1916", <i>International journal of biological macromolecules</i> , 141, 927-935, 2019
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65.	S. Saxena, P. Mathur, V. Shukla, & V. Rani," Differential expression of novel MicroRNAs from developing fetal heart of Gallus gallus domesticus implies a role in cardiac development," <i>Molecular and cellular biochemistry</i> , 462(1-2), 157-165, 2019
66.	S.Soni,M.Antil ,V. Gupta , Detrimental Effects of TB on Socioeconomy of South Asia Region:Feasibility of Achieving END TB Target. <i>Journal of Materials Science &amp; Surface Engineering</i> , 6(6): 899-904, 2019
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73.	S.Sharma, S Dang, Neuropsychological Disorders and their Nano-carries, <i>Current Pharmaceutical Design</i> , 2020, 26, 1-10 DOI : 10.2174/1381612826666200224111241
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80.	M. Maheshwari, A. Gupta and S. Gaur, “Probiotic potential of traditional Indian fermented drinks”, Current Nutrition & Food Science vol 16, no 5, pp. 638-643, 2020, 16:1 <a href="https://doi.org/10.2174/1573401315666190821113406">https://doi.org/10.2174/1573401315666190821113406</a>
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