

PRADEEP KUMAR, PH. D. (BIOTECH)

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In Brief		
Research Exp.: 15 Years	Research Grant: 07 (SERB-1, DBT-NER-2, GBPH-1, UBA-01, STINER-01, UPCST-1)	
Papers/ Chapter/books published: 135	Books edited: 09; Book Chapters- 30	
Total Impact Factors: ~300	Citation: 6600; H-index- 35, i10-index: 82	

Academic Qualification

Degree	University	% Marks	Year	Subjects
Ph. D.	BBA University & ICAR-CISH, Lucknow	-	15.03.2013 (Awarded) 23.07.2010 (Submitted)	Biotechnology
Variability studies of mango malformation pathogen (<i>Fusarium moniliforme</i> var. <i>subglutinans</i>) and its molecular characterization				
M. Sc.	DDU Gorakhpur University	66.11	2004	Biotechnology
B. Sc.	DDU Gorakhpur University	67.38	2002	Botany, Chemistry, Ind. Microbiology
CSIR-NET	CSIR-UGC	-	2007	Life Sciences
UGC-NET	UGC	-	2007	Environ. Sciences
ARS-NET	ICAR	-	2010	Basic Plant Sciences
UPSLET	UGC	-	2004	Life Sciences
GATE	MHRD-IIT	90.86	2005	Life Sciences

Research/Teaching Experiences

Designation / Post	To	From	Institute/University	Basic Pay Scale	Duration
Associate Professor	16.06.2022	Till Date	Department of Botany, University of Lucknow	131400/ 13A	
Assistant Professor	26.10.2016	15.06.2022	Department of Forestry, NERIST, Nirjuli, AP, India	Rs. 77500/	5 Years 08 Months
Int. Research Professor / Ass. Prof.	01.03.2016	21.10.2016	Department of Biotechnology, Yeungnam University, Republic of Korea.	KRW 2450000	8 Months
PBC-Post-Doctoral Fellow	01.12.2012	15.02.2016	Department of Biotechnology Engineering, Ben-Gurion University of the Negev, Beer Sheva,	NIS 8333	3 Years 3 months

			Israel.		
Research Associate	29.12.2010	30.11.2012	Division of Biotechnology, Sugarcane Research Institute, UP, India	Rs. 23760	1 Year 11 months
Lecturer	08.09.2008	28.12.2010	Department of Biotechnology, ITS College, Ghaziabad (CCS University, Meerut)	8000-275- 13500	2 Years 3 months
Research Associate	25.07.2007	31.03.2008	Division of Biotechnology, Sugarcane Research Institute, UP, India	Rs. 11810	8 months

Administrative Experience

- **Assistant Dean- Student Welfare (UoL)** Sept 2022-till date
- **Member Internal Quality Assurance Cell (IQAC) (UoL)**
- **Head Examiner M. Sc. (Ag) Agronomy (UoL)- July 2022-Till Date**
- **Member NIRF Ranking Cell (UoL)**
- **Member student Grievances Redressal Committee (SGRC) -Oct 2023-till date**

Achievements, Awards and Fellowships

- **Early Career Research Award** from DST-SERB, Government of India (2018) (Grant 43.0 Lakhs)
- **PBC Postdoctoral Fellowship** for Outstanding Researchers from India and China- Govt. of Israel (2012).
- **Excellence in PGPR** by Asian PGPR Society. 2021
- **Young Scientist Award** By SBBS, Prayagraj (for Year 2019) awarded in Dec 2020
- **Research Excellence Award-2020** by Society of Biotechnology & Microbiology, GF college
- **Emerging Scientist Award –2018** by ATDS, Ghaziabad at Int. Conference.
- **Best oral paper presentation Award** at International Conference, Oct 2008, Meerut.
- **Best Oral Presentation & Narshimhan Award** by Indian Phytopathological Society (MEZ) Nov. 3-5, 2012.
- **Best Poster Paper Award** in National Seminar 14th March 2010
- **Travel Grant for conference** (by Ben Gurion University, Israel (\$1000) Dec 2015)

Research Grants Sanctioned -03; Completed -01

Sl.	Project Title	Amount (Lakh)	Funding Agency	Role (PI/Co-PI)
1.	<i>Exploring the Bacillus thuringiensis genetic diversity with anti-coleopteran, anti-lepidopteron specific Cry genes to combat agriculturally important insect pest from North-East (Arunachal Pradesh) India</i>	42.93	SERB, Govt. of India- <i>Completed</i>	PI
2.	<i>Micropropagation of Litsea cubeba (Lour.) Pers: an indigenous plant of North East India for genetic conservation</i>	~8.0	GBPHNIESD <i>Completed</i>	Co-PI
3.	<i>Screening of Phytochemical and Bioactive compounds against human pathogenic bacteria of some selected indigenous medicinal plants of Arunachal Pradesh, India [NERIST & CDRI]</i>	~82.24 (Total)	DBT, Govt. of India <i>Ongoing</i>	PI & Coordinator
4.	<i>Use of non-toxic nanoformulations for prolonging shelf life and reduction of post-harvest loss of Khasi mandarin orange (Citrus reticulata) of North East India [NERIST, NIFTEM, IITG, CIT, CAU, MU]</i>	~292.00 (Total)	DBT, Govt. of India <i>Ongoing</i>	Co-PI & Co-coordinator
5.	<i>Multiplication of Trichoderma harzianum in Agro-waste for Production of Bio agent</i>	1.0	UBA, Govt. of India <i>Ongoing</i>	PI

6.	<i>STINER-SPOKE, Arunachal Pradesh (5 projects)</i>	~206.00 (Total)	DoNER, Govt. of India <i>Ongoing</i>	PI for two projects
7.	<i>Synergistic use of petroleum plants and nanomaterials to facilitate the phytoremediation of contaminated soil of Lucknow</i>	~13.83	UPCST, Govt of UP <i>Ongoing</i>	Co-PI

Student Guided (Ph. D.- 07; M.Sc. 09; M. Tech 05)

Sl. No.	Name of Student	Program	Year of registration	Role	Field of Research
1.	Mr. Zeiwang Konyak	Ph. D.	June 2018	Supervisor	Bio-Control
2.	Ms. Himashree Bora	Ph. D. Submitted	June 2018- June 2023	Supervisor	Antimicrobial/ phytochemical
3.	Mr. Rituraj Borah	Ph. D.	June 2018	Co-Supervisor	Biopesticides
4.	Ms. Sukni Bui	Ph. D.	Dec 2018	Co-Supervisor	Tissue culture
5.	Ms. Purnamshree Gogoi	Ph.D.	June 2020	Supervisor	Endophytic Bacteria
6.	Mr. Tado Gyadi	Ph. D.	June 2019	Co-supervisor	Bioremediation
7.	Mr. Deepak Paudrel	Ph.D.	June 2020	Co-Supervisor	Bioremediation
Masters					
8.	Mr. Kange Ratan	M. Tech	June 2020- June 2021	Supervisor	Nanotechnology
9.	Ms. Himadri Kalita	M. Tech	June 2019- June 2020	Supervisor	Bioremediation
10.	Mr. Deepak Pauderal	M. Tech	June 2019- June 2020	Supervisor	Bioremediation
11.	Ms. Anupreeti Das	M. Tech	June 2018- June 2019	Supervisor	Nanotechnology
12.	Mr. Suman Sarkar	M. Tech	June 2021- June 2022	Supervisor	MDR bacteria
13.	Mr. Sukanta Roy	M.Sc.	Jan 2022-June 2022	Supervisor	<i>Bacillus thuringiensis</i>
14.	Mr. Parmesh Sah	M.Sc.	Jan 2021- June 2021	Supervisor	Phytochemicals
15.	Mr. K Lachu	M. Sc.	Jan 2020- June 2020	Supervisor	Endophytes
16.	Mr. Sei Min	M. Sc.	Dec. 2018- June 2019	Supervisor	Biocontrol
17.	Ms. Manisha Das	M. Sc.	Dec. 2018- June 2019	Supervisor	Biocontrol
18.	Ms. Bhumika Gurung	M. Sc.	Dec. 2017- June 2018	Co-Supervisor	Essential oil
19.	Mr. Zeiwang Konyak	M. Sc.	Dec. 2017- June 2018	Supervisor	Biocontrol
20.	Ms. Shreya Singh	M.Sc.	Aug 2023-Dec 2023	Supervisor	Nanotechnology
21.	Ms. Supriya Sonkar	M.Sc.	Aug 2023-Dec 2023	Supervisor	Nanotechnology

Research/Review Papers-97 (# Equally contributed; * Corresponding Author)

1. Chaudhary S, Singh RK, **Kumar P*** (2023) Genome-wide identification, characterization and primer designing of simple sequence repeats across Leguminosae family. *3 Biotech* 13, 286 (**IF 2.88**).
2. Dhawan K, Rasane P, Singh J, Kaur S, Kaur D, Avinash H, Mahato DK, **Kumar P*** Gunjal M, Capanoglu E and Haque S (2023) Effect of Spice Incorporation on Sensory and Physico-chemical Properties of Matcha-Based Hard Candy. *ACS Omega*. DOI: 10.1021/acsomega.3c02574 (**IF 4.1**).
3. Mishra S, Sahani S, Pandhi S, Kumar A, Kumar Mahato D, **Kumar P**, Chandrakant Khaire K, Rai A. Enhancement in Biological Availability of Vitamins by Nano-engineering and its Applications: An Update. *Curr Pharm Biotechnol*. 2023 Nov 2. doi: 10.2174/0113892010251234231025085759. (**IF 2.8**)
4. Kumar S, Kumar S, Vishnoi VK, **Kumar P***, Maheshwari DK (2023) *Sida cordifolia* L.: Ethnobotany, Phytochemistry, Phytonanotechnology, and Commercial Application. *Current Pharmaceutical Biotechnology*. 10.2174/0113892010262937230919100024 (**IF 2.8**)
5. Atanassova M, Martorell M, Sharopov F, Atanassov L, **Kumar P**, Sharifi-Rad J, Tejada-Gavela S, Iriti M, Pezzani R, Varoni EM (2023) Cocoa as immunomodulatory agent: an update, *Natural Product Research*, DOI: [10.1080/14786419.2023.2272025](https://doi.org/10.1080/14786419.2023.2272025) (**IF 2.48**).
6. Sarkar S, Kamle M, Bharti A, **Kumar P*** (2023) Antibiotic-Resistant Bacteria Risks and Challenges for Human Health and Environment: An Overview. *World J Environ Biosci*. 12(2):26-34.
7. Gogoi P, Kamle M*, Kumar P. (2023) Endophytic Bacteria Associated with Rice: Role in Biotic and Abiotic Stress Protection and Plant Growth Promotions. *World J Environ Biosci*. 12(1):1-9.
8. Kumar S, Singh NA, Jain V, Subramanya M, **Kumar P**. (2023) Coronavirus Disease (COVID-19) Possible Transmission Routes and Alleviation Strategies. *Int J Pharm Res Allied Sci*. 2023;12(2):23-32. <https://doi.org/10.51847/7oWk1mTLel> (**IF 0.41**).
9. Bora H, Kamle M, Hassan H, Al-Emam A, Chopra S, Kirtipal N, Bharadwaj S, **Kumar P***. (2022) Exploration of Potent Antiviral Phytomedicines from Lauraceae Family Plants against SARS-CoV-2 Main Protease. *Viruses*. 2022; 14(12):2783. (**IF 5.85**).
10. Bora H, Kamle M, Chopra S, **Kumar P*** (2022). Evaluation of Phytochemical Components, Antioxidant, and Antibacterial Activities of *Coptis teeta* Walls. *Int J Pharm Res Allied Sci*. 11(4):140-50. (**IF 0.41**).
11. Chhetry BSK, Dewangan KN, Mahato DK, **Kumar P*** (2022) Endotoxins Affecting Human Health during Agricultural Practices: An Overview. *AppliedChem*. 3(1):11-31.
12. Bora H, Kamle M, **Kumar P*** (2022) Phytochemical Analysis, Antioxidant and Antimicrobial Screening of Leaves Extract of *Tetrastigma thomsonianum* Planch. *Indian Journal of Natural Sciences*. 13 (75):1-12
13. **Kumar P***, Mahato DK, Gupta A, Pandhi S, Mishra S, Barua S, Tyagi V, Kumar A, Kumar M and Kamle M. (2022), Use of essential oils and phytochemicals against the mycotoxins producing fungi for shelf-life enhancement and food preservation. *Int J Food Sci Technol*. 57:2171–2184. <https://doi.org/10.1111/ijfs.15563> (**IF 3.612**).
14. Kamle M, Mahato DK, Gupta A, Pandhi S, Sharma B, Dhawan K, Vasundhara, Mishra S, Kumar M, Tripathi AD, Rasane P, Selvakumar R, Kumar A, Gamlath S, **Kumar P***. Deoxynivalenol: An Overview on Occurrence, Chemistry, Biosynthesis, Health Effects and Its Detection, Management, and Control Strategies in Food and Feed. *Microbiology Research*. 2022; 13(2):292-314. (**IF 1.5**).
15. Olee D, Mahato D K, **Kumar P**, Shankar B, Ganga N, Kharel P (2022) Identification of Yeast and Mould Isolated from murcha in Nepal for Rice Wine Production. *Braz. arch. biol. technol*. 65 • 2022 • <https://doi.org/10.1590/1678-4324-2022210285> (**IF 1.118**).

16. Mahato DK, Kargwal R, Kamle M, Sharma B, Pandhi S, Mishra S, Gupta A, Mahmud MMC, Gupta MK, Singha LB, **Kumar P*** (2022) Ethnopharmacological properties and Nutraceutical potential of *Moringa oleifera*. *Phytomedicine Plus*. 2(1)100168 <https://doi.org/10.1016/j.phyplu.2021.100168>.
17. Kamle M, Mahato DK, Gupta A, Pandhi S, Sharma N, Sharma B, Mishra S, Arora S, Selvakumar R, Saurabh V, Dhakane-Lad J, Kumar M, Barua S, Kumar A, Gamlath S, **Kumar P***. (2022) Citrinin Mycotoxin Contamination in Food and Feed: Impact on Agriculture, Human Health, and Detection and Management Strategies. *Toxins*. 2022; 14(2):85. (IF 4.54).
18. Mahato DK, Pandhi S, Kamle M, Gupta A, Sharma B, Panda BK, Srivastava S, Kumar M, Selvakumar R, Pandey AK, Suthar P, Arora S, Kumar A, Gamlath S, Bharti A, **Kumar P.*** (2022) Trichothecenes in food and feed: Occurrence, impact on human health and their detection and management strategies. *Toxicon*. 208:62-77. doi: 10.1016/j.toxicon.2022.01.011. (IF 3.035)
19. Kumar S, Singh N, Devi LS, Kumar S, Kamle M, **Kumar P***, Mukherjee A (2022) Neem oil and its nanoemulsion in sustainable food preservation and packaging: Current status and future prospects. *Journal of Agriculture and Food Research* 7: 100254. (IF 3.8).
20. Kumar P, Pandhi S, Mahato DK, Kamle M, Mishra A (2021) Bacillus-based nano-bioformulations for phytopathogens and insect-pest management. *Egypt J Biol Pest Control* 31, 128. (IF 2.055)
21. Singh M, Alka A, Lee KE, **Kumar P***, Kang SG. (2021) Curcuma turmeric oil enhanced anti-dermatophytic drug activity against *Candida albicans* and *Trichophyton mentagrophytes*. *Current Drug Delivery*. 2021 Jul. DOI: 10.2174/1567201818666210729105220. (IF 3.758).
22. Kang SG, Lee KE, Singh M, **Kumar P***, Matin MN. (2021) Rice Lesion Mimic Mutants (LMM): The Current Understanding of Genetic Mutations in the Failure of ROS Scavenging during Lesion Formation. *Plants*. 10(8):1598. <https://doi.org/10.3390/plants10081598>. (IF 4.658).
23. **Kumar P***, Mahato DK, Kamle M, Borah R, Sharma B, Pandhi S, Tripathi V, Yadav HS, Devi S, Patil U, Xiao J, Mishra AK (2021) Pharmacological Properties, Therapeutic Potential and Legal Status of *Cannabis sativa L.*: An Overview. *Phytotherapy Research*.1–31. (IF 7.2).
24. Mahato DK, Mishra AK, **Kumar P*** (2021) Nanoencapsulation for agri-food application and associated health and environmental concerns. *Frontiers in Nutrition*. 10.3389/fnut.2021.663229 (IF 5.0)
25. **Kumar P***, Kamle M, Borah R, Mahato DK, Sharma B (2021) *Bacillus thuringiensis* as microbial biopesticide: uses and application for sustainable agriculture. *Egypt J Biol Pest Control* 31, 95. <https://doi.org/10.1186/s41938-021-00440-3> (IF 2.055)
26. Kesari KK, Soni R, Jamal QMS, Tripathi P, Lal JA, Jha NK, **Kumar P**, Tripathi V, Ruokolainen J (2021) Wastewater Treatment and Reuse: a Review of its Applications and Health Implications. *Water Air Soil Pollut* 232, 208 (IF 2.90)
27. Mahato DK, Kamle M, Sharma B, Pandhi S, Devi S, Dhawan K, Selvakumar R, Mishra D, Kumar A, Arora S, Singh NA, **Kumar P.*** (2021) Patulin in food: A mycotoxin concern for human health and its management strategies. *Toxicon*. 29;198:12-23. doi: 10.1016/j.toxicon.2021.04.027. (IF 2.8)
28. Salehi B, Quispe C, Butnariu M, Sarac I, Marmouzi I, Kamle M, Tripathi V, **Kumar P**, Bouyahya A, Capanoglu E, Ceylan CD, Singh L, Bhatt ID, Sawicka B, Krochmal-Marczak B, Skiba D, Jemli ME, Jemli YE, Coy-Barrera E, Sharifi-Rad J, Kamiloglu S, Cádiz-Gurrea M, Segura-Carretero A, Kumar M, Martorell M (2021) Phytotherapy and food applications from Brassica genus. *Phytotherapy Research*.1–21. (IF 7.2)
29. Anand U, Reddy B, Singh VK, Singh AK, Kesari KK, Tripathi P, **Kumar P**, Tripathi V, Simal-Gandara J. (2021) Potential Environmental and Human Health Risks Caused by Antibiotic-Resistant Bacteria (ARB), Antibiotic Resistance Genes (ARGs) and Emerging Contaminants (ECs) from Municipal Solid Waste (MSW) Landfill. *Antibiotics*. 10(4):374. (IF 4.8)
30. Singh NA, **Kumar P**, Jyoti, Kumar N (2021) Spices and herbs: Potential antiviral preventives and immunity boosters during COVID-19. *Phytotherapy Research*.1–13. (IF 7.2).

31. Mahato DK, Devi S, Pandhi S, Sharma B, Maurya KK, Mishra S, Dhawan K, Selvakumar R, Kamle M, Mishra AK, **Kumar P*** (2021) Occurrence, Impact on Agriculture, Human Health, and Management Strategies of Zearalenone in Food and Feed: A Review. *Toxins*. 13(2):92. <https://doi.org/10.3390/toxins13020092> (IF 4.2)
32. Vinyagam R, **Kumar P**, Lee KE, Xu B, Matin MN, Kang SG (2021) Biological and Functional Properties of Wedelolactone in Human Chronic Diseases. *Phyton-International Journal of Experimental Botany*, 90(1), 1–15. (IF 1.7)
33. **Kumar P***, Yadav AKS, Singh A (2021) Prospective of Artificial Intelligence: Emerging Trends In Modern Biosciences Research. *IOP Conf. Ser.: Mater. Sci. Eng.* 1020 012008
34. **Kumar P***, Mahato DK, Sharma B, Borah R, Haque S, Mahmud MMC, Shah AK, Rawal D, Bora H, Bui S (2020) Ochratoxins in food and feed: Occurrence and its impact on human health and Management strategies. *Toxicon*. 187:151-162. (IF 2.8)
35. Bajpai VK, Park IW, Khan I, Alshammari AH, **Kumar P**, Chen L, Na MK, Huh YS, Han YK, Shukla S (2020) (-) - Tetrahydroberberubine-acetate accelerates antioxidant potential and inhibits food associated *Bacillus cereus* in rice. *Food Chemistry*. 339:127902. doi: 10.1016/j.foodchem.2020.127902. (IF 8.8)
36. Bajpai VK, Khan I, Shukla S, **Kumar P**, Chen L, Anand SR, Tripathi KK, Bhati A, Kang SM, Lee H, Kwak, Minghan Huang CH, Sonkar SK, Huh YS, and Han YK (2020) N,P-Doped Carbon Nanodots for Food-Matrix Decontamination, Anticancer Potential, and Cellular Bio-Imaging Applications. *J. Biomed. Nanotechnol.* 16, 283–303. (IF 4.483)
37. **Kumar P**, M Kamle, DK Mahato, H Bora, B Sharma, P Rasane, VK Bajpai (2020) *Tinospora cordifolia* (Giloy): Phytochemistry, Ethnopharmacology, Clinical Application and Conservation Strategies. *Current Pharmaceutical Biotechnology*. 21 (12)1165-1175. (IF 2.8)
38. Bora H, Kamle M, Mahato DK, Tiwari P, **Kumar, P*** (2020) Citrus Essential Oils (CEOs) and Their Applications in Food: An Overview. *Plants* 2020, 9, 357. (IF 4.5).
39. Kamle M., Mahato D.K., Devi S., Soni R., Tripathi V, Mishra AK, **P. Kumar*** (2020) Nanotechnological interventions for plant health improvement and sustainable agriculture. *3 Biotech* 10, 168. (IF-2.8)
40. Prabha R, Singh DP, Ahmad K, Kumar SPJ, **Kumar P** (2019) Subtractive genomics approach for identification of putative antimicrobial targets in *Xanthomonas oryzae pv. oryzae KACC10331*. *Archives of Phytopathology and Plant Protection*. 52: 863-872
41. Salehi B., Selamoglu Z, Mileski K. S, Pezzani R., Redaelli M., Cho W. C., Kobarfard F., Rajabi S., Martorell M., **Kumar P.,** Martins N., Santra T. S., Sharifi-Rad J. (2019) Liposomal Cytarabine as Cancer Therapy: From Chemistry to Medicine. *Biomolecules* 2019, 9, 773. (IF- 5.5)
42. Mahato DK , Lee KE, Kamle M, Devi S, Dewangan KN, Kumar P* and Kang S G (2019). Aflatoxins in food and feed: An overview on prevalence, detection and control strategies. *Frontiers in Microbiology*. doi: 10.3389/fmicb.2019.02266. (IF- 5.2)
43. Das A, Kamle M, Bharti A, and **Kumar P***, (2019). Nanotechnology and its applications in environmental remediation: an overview. *Vegetos*, 32:1-11. DOI: 10.1007/s42535-019-00040-5.
44. Bajpai V K, Khan I, Shukla S, **Kumar P**, Rather I A, Park Y H, Huh Y S, and Han Y K (2019). Invasive Fungal Infections and Their Epidemiology: Measures in the Clinical Scenario. *Biotechnology and Bioprocess Engineering*. 24: 436-444. (IF- 4.6).
45. Kamle M, Mahato D K, Devi S, Lee K E, Kang S G and **Kumar P*** (2019). Fumonisin: Impact on Agriculture, Food, and Human Health and their Management Strategies. *Toxins*, 11(6):328. DOI: 10.3390/toxins11060328. (IF 4.2)
46. Kamle M, Mahato D K, Lee K E, Bajpai V K, Gajurel PR, Gu K S, and **Kumar P***, (2019). Ethnopharmacological Properties and Medicinal Uses of *Litsea cubeba*. *Plants*, 8(6), p.150. DOI: 10.3390/plants8060150. (IF-4.5).
47. Salehi B., Sharifi-Rad R, Shaopov F, Namiesnik J, Roointan A., M. Kamle, **P Kumar***, N. Martin, JS Rad (2019) Beneficial Effects and Potential Risks of Tomatoes Consumption For Human Health: An Overview. *Nutrition*. 62:201-208. (IF-4.4).

48. H Barak, **P Kumar***, A Zaritsky, Z Mendel, D Ment, A Kushmaro, E Ben-Dov (2019) Diversity of Bacterial Biota in *Capnodis tenebrionis* (Coleoptera: Buprestidae) Larvae. *Pathogens* 8 (1), 4. (IF-3.7).
49. Salehi B, Martorell M, Arbiser JL, Sureda A, Martins N, Maurya PK, Sharifi-Rad M, **Kumar P**, Sharifi-Rad J. (2018) Antioxidants: Positive or Negative Actors?. *Biomolecules* 8 (4), 124. (IF- 5.5)
50. Bajpai VK, Kamle M, Shukla S, Mahato DK, Chandra P, Hwang SK, **Kumar P***, Huh YS, Han YK (2018) Prospects of Using Nanotechnology for Food Preservation, Safety, and Security. *Journal of Food and Drug Analysis*. 26(4).1201-1214 (IF-3.6).
51. Baranwal A, Srivastava A, **Kumar P***, Bajpai VK, Maurya PK and Chandra P (2018) Prospects of Nanostructure Materials and Their Composites as Antimicrobial Agents. *Front. Microbiol.* 9:422. doi: 10.3389/fmicb.2018.00422 (IF-5.2).
52. Bajpai V. K., V. Chandra, NH Kim, R. Rai, **Kumar P**, K. Kim, A. Aeron, S C Kang, D K Maheshwari, MK Na, I A Rather, YH Park (2018) Ghost probiotics with a combined regimen: a novel therapeutic approach against Zika virus, an emerging world threat. *Critical Review in Biotechnology*. 38(3):438-454. (IF-9.0).
53. Khan I, Bahuguna A, **Kumar P***, Bajpai VK, Kang SC (2018) In vitro and in vivo antitumor potential of carvacrol nanoemulsion against human lung adenocarcinoma A549 cells via mitochondrial mediated apoptosis. *Scientific Report-Nature* 8(1):144. (IF-4.397).
54. Kumar S., Das G., Shin H, **Kumar P***, and Patra, JK. (2018). Evaluation of Medicinal Values of *Gymnopetalum chinense* (Lour.) Merr., a Lesser Known Cucurbit from Eastern Ghats of India. *Brazilian Archives of Biology and Technology*, 60, e17160580. Doi:10.1590/1678-4324-2017160580 (IF 1.0).
55. Kumar S, Das G, Shin HS, **Kumar P**, Patra J K (2018) Diversity of plant species in the steel city of Odisha, India: ethnobotany and implications for conservation of urban bio-resources. *Brazilian Archive of Biology and Technology*. Vol.60: e17160650, doi: 10.190/1678-4324-2017160650 (IF 1.0).
56. Singh T, Shukla S, **Kumar P***, Wahla V, Bajpai VK and Rather IA (2017) Application of Nanotechnology in Food Science: Perception and Overview. *Front. Microbiol.* 8:1501. doi: 10.3389/fmicb.2017.01501 (IF-5.2)
57. Khan I, Bahuguna A, **Kumar P***, Bajpai VK, Kang SC. (2017) Antimicrobial Potential of Carvacrol against Uropathogenic *Escherichia coli* via Membrane Disruption, Depolarization, and Reactive Oxygen Species Generation. *Frontiers in Microbiology*. 8:2421. doi:10.3389/fmicb.2017.02421. (IF-5.2)
58. Agarwal M., Dheeman S., Dubey R.C., **Kumar P***, Maheshwari D. K., Bajpai V. K. (2017) Differential antagonistic responses of *Bacillus pumilus* MSUA3 against *Rhizoctonia solani* and *Fusarium oxysporum* causing fungal diseases in *Fagopyrum esculentum* Moench. *Microbial Research*. 205: 40-47. (IF-6.7)
59. Bajpai VK, Shukla S, Paek WK, Lim J, **Kumar P***, Pankaj K and Na M (2017) Efficacy of (+)-Lariciresinol to Control Bacterial Growth of *Staphylococcus aureus* and *Escherichia coli* O157:H7. *Front. Microbiol.* 8:804. doi: 10.3389/fmicb.2017.00804. (IF-5.2)
60. Bajpai VK, Shukla S, Paek WK, Lim J, **Kumar P*** and Na M (2017) Antibacterial Action of Jineol Isolated from *Scolopendra subspinipes mutilans* against Selected Foodborne Pathogens. *Frontiers in Microbiology*. 8:552. doi:10.3389/fmicb.2017.00552. (IF-5.2)
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