

School of Biotechnology

Detail List of Publications:

1. Ali R, Chauhan V, Farooq S, Khan A and Farooq U. *In-Vitro* Analysis of Antibacterial Activity of *Ocimum sanctum* against Pathogenic Bacteria and Quantification of Ursolic Acid and Oleanolic Acid. ***International Journal of Pharmaceutical Science Review and Research*** 2014, 25(2): 13-17.
2. Bains A and Tripathi A. Antibacterial activity of wild mushrooms against pathogenic bacteria. ***Journal of Pharmacology*** (Under revision)
3. Batta B, Katoch A, Bhatia VK, Patil S and Sharma PC. Screening of leaf extracts of *Azadirachta indica* (Neem), *Aegle marmelos* (Bael) and *Trigonella foenumgraecum* (Methi) for their inhibitory activity on the strains of *Pseudomonas aeruginosa*, *Staphylococcus aureus* and *Candida* species. ***International Journal of Pharmaceutical Sciences Review and Research*** 2013, 19(2): 42-46.
4. Bharti, Minhas N, Patil S, Kumar A and Sharma PC Novel preparations of culture media from plant materials for cultivation of *Candida albicans*. ***International Journal of Pharmaceutical Sciences Review and Research*** 2013, 20(1): 128-133
5. Chaudhary R and Tripathi A. Molecular profiling and bioactive properties of six wild mushrooms collected from Himachal Pradesh. ***Journal of Applied Microbiology***. (Under Revision)
6. Chaudhary R. and Tripathi A. (2015) Isolation and identification of bioactive compounds by *Irpex lacteus*. ***Journal of Pharmaceutical Research Science*** (Accepted).
7. Chauhan R and Sharma PC Phenotypic detection of Metallo-Bactamase(MBL) producers among multidrug resistant(MDR)strains of *P. aeruginosa* in Himachal Pradesh. ***Indian Journal of Basic and Applied Medical Research*** 2015, 3(1):303-313
8. Chauhan S, Farooq U, Singh V and Kumar A. Determination of prevalence and antibacterial activity of ESBL (extended spectrum beta-lactamases) producing *Klebsiella* Species isolated from raw milk of doon valley in India. ***International Journal of Pharma and Bio Sciences*** 2013, 4(1): 417 – 423.
9. Clayberger C, Finn MW, Wang T, Saini RV, Wilson C, Barr VA, Sabatino M, Castiello L, Stroncek D and Krensky AM. 15 kDa granulysin causes differentiation of monocytes to dendritic cells but lacks cytotoxic activity. ***Journal of Immunology*** 2012, 188:61196126.
10. De Muyt A, Jessop L, Kolar E, Sourirajan A, Chen J, Dayani Y, and Lichten M. BLM helicase ortholog Sgs1 is a central regulator of meiotic recombination intermediate metabolism. ***Molecular Cell*** 2012, 46: 43-53.
11. Dev K, Qui H, Dong J, Zhang F, Barthlme D and Hinnebusch AG. The β /Gcd7 Subunit of Eukaryotic Translation Initiation Factor 2B (eIF2B), a Guanine Nucleotide Exchange Factor, Is Crucial for Binding eIF2 *In Vivo*. ***Molecular and Cellular Biology*** 2010, 30 (21), 5218-5233. *Spotlight article in the same issue:*

Double Duty for an Essential Subunit of Eukaryotic Translation Initiation Factor 2B.

12. Farooq U, Dubey ML, Shrivastwa SK and Mahajan RC. Genetic polymorphism of *Plasmodium falciparum*: Differentiation of parasite isolates of high and low virulence by RAPD. **Indian Journal of Medical Research** 2012, 136: 292-295.
13. Gupta S, Sharma P, Dev K, Srivastava M, and Sourirajan A. A diverse group of halophilic bacteria exist in Lunsu, a natural salt water body of Himachal Pradesh, India. **SpringerPlus** 2015, (accepted)
14. Jandaik S, Kumar V and Thakur P. *Vermiwash: Plant growth enhancer and antifungal agent*. **International Journal of Extensive Research** 2015, 2:38-41.
15. Jandaik S, Sharma M, Jitender, and Singh S. Antimicrobial activity of bacteriocin produced by lactic acid bacteria isolated from milk products. **Journal of Pure and Applied Microbiology** 2012, 7(1): 603-608.
16. Jandaik S, Singh R and Sharma M. Comparative growth characteristics and yield attributes of Lingzhi or Reishi Medicinal Mushroom, *Ganoderma lucidum* (Higher basidiomycetes) on different substrates in India. **International Journal of Medicinal Mushroom** 2013, 15(5): 497-503
17. Joshi H, Gururaja MP and Singh S. *Memecylon umbellatum*: A Review. **Journal of Pharmacy Research** 2011, 11(2): 54-58
18. Kapoor S, Sharma DR and Sharma S. Supervising commodious exposed therapeutic plant *Inula Racemosa* by *in vitro* callus induction. **Indian Journal of Scholarly Research** 2013, 2(4): 49
19. Katoch A, Batta B, Kumar A and Sharma PC. Screening of *Murraya koenigii* (Curry) and *Camellia sinensis* (Tea) leaves for antimicrobial activity against strains of *Staphylococcus aureus*, *Pseudomonas aeruginosa* and *Candida* species and their phytochemical analysis. **International Journal of Pharmaceutical Sciences and Research** 2013, 4(2): 862-868
20. Kaur N, Farooq U, Rana T, and Singh S. Multidrug resistance in *P aeruginosa* : In vitro efficacy of current chemotherapy against clinical isolates from Northarn India. **International Journal of Biology, Pharmacy and Allied Sciences** 2015, (In Press)
21. Kaushal S, Gupta A and Saini RV. Immunomodulatory activity of *in vitro* propagated tissues of *Gentiana kuroo*Royle. **International Journal of Biology, Pharmacy and Allied Sciences** 2015, (Accepted).
22. Kaushal S, Sidana A, and Dev K. In vitro plant production through apical meristem culture of *Gentiana kurroo* Royle. **Journal of Medicinal Plants Studies** 2014, 3(1): 04-09
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25. Kulshrestha S and Sharma M. *Colletotrichum gloeosporioides*: An anthracnose causing pathogen of fruits and vegetables. **Biosciences, Biotechnology Research Asia** 2015, (Accepted).
26. Kulshrestha S, Hallan V, Sharma A, Seth CA, Chauhan A and Zaidi AA. Molecular characterization and intermolecular interaction of coat protein of *Prunus necrotic ringspot virus*-implications for virus assembly. **Indian Journal of Virology** 2013, 24(2): 235-241.
27. Kulshrestha S, Seth CA, Sharma M, Sharma A, Mahajan R and Chauhan A. Biology and control of *Rosellinia necatrix* causing white root rot disease: A review. **Journal of Pure and Applied Microbiology** 2014, 8(3): 1803-1814.
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29. Kumar A, Dev K, and Sourirajan A. Screening of medicinal and aromatic plants of Himachal Pradesh for antiproliferative activities against budding yeast *Saccharomyces cerevisiae*. **International Journal of Pharma and Bio Sciences** 2015, 6(3): (B) 280 – 288.
30. Kumar A and Sharma PC. In vitro studies on selective virulence traits of fluconazole resistant candid species of *Candida* isolated from clinical cases. **International Journal of Biological and Pharmaceutical Research** 2013, 4(10): 685-696.
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33. Kumar A, Singh S and Kumar D. Evaluation of antimicrobial potential of cadmium sulphide nanoparticles against bacterial pathogens. **International Journal of Pharmaceutical Sciences Review and Research** 2014, 24(2):202-206.
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35. Kumar T, Sourirajan S and Dev K. Isolation and characterization of psychrotolerant *Serratia quinivorans* secreting β -galactosidase. **Universal Journal of Microbiology Research** 2015, 3(1): 1-9.
36. Kumari P, Jandaik S and Batta S. A thermotolerant protease from *Bacillus* sp- isolation, characterization, optimization and purification. **Journal of Pure and Applied Microbiology** 2014, 8(5): 3667-3674
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40. Mehta S, Jandaik S and Gupta D Effect of cost-effective substrates on growth cycle and yield of Lingzhi or Reishi medicinal mushroom, *Ganoderma lucidum* (Higher Basidiomycetes) from North western Himalaya (India). *International Journal of Medicinal Mushrooms* 2014, 16(6): 585–591
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47. Saini AK, Chauhan PK, Singh V and Sharma P. Phytochemical, antioxidant & in vitro antibacterial activity of aqueous & ethanolic fruit extracts of *Kigelia Africana*. *Indian Journal of Pharmaceutical and Biological Research* 2013, 1(2):46-52
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51. Sharma A, Khan MA and Farooq U. Screening of Different Varieties of *Mangifera indica* for antimicrobial activity. ***Universities' Journal of Phytochemistry and Ayurvedic Heights*** 2014, 1 (16); 12-19.
52. Sharma B, Verma R, Dev K and Thakur R. Molecular characterization of Manikaran hot spring microbial community by 16S rRNA and RAPD analysis. ***Biotechnology An Indian Journal***. 2012, 6: 254-266
53. Sharma D, Bhatia VK, Patil S and Sharma PC. Antimicrobial activity of selected Cryptogams from Solan region. ***International Journal of Biological & Pharmaceutical Research*** 2013, 4(6): 448-454
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59. Sidana A and Farooq U. Isolation and Biotransformation and evaluation of antibacterial activity of embelin from *Embolin ribesi*. ***Universities' Journal of Phytochemistry and Ayurvedic Heights*** 2012, 2 (13): 5-9.
60. Sidana A and Farooq U. Sugercane Bagasse: A potential medium for fungal culture. ***Chinese J Biology*** 2014, doi:10.1155/ 2014/ 840505.
61. Sidana A and Farooq U. Evaluation of antileishmanial activity of plants used in Indian traditional medicine. ***Bangladesh Journal of Pharmacology*** 2015, 10:423-426.
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63. Singh S and Joshi H. *Diospyros Kaki* (Ebenaceae): A review. ***Asian Journal of Research in Pharmaceutical Sciences*** 2011, 1(3): 5558
64. Singh S, Joshi H and Prasad R. Antifungal potential of rootbark of *Diospyros Kaki* against some human pathogenic fungi. ***Der Pharmacia Sinica*** 2011, 2(5) : 210-216
65. Singh S, Prasad R, Pathania K and Joshi H. Antifungal activity of

- Plumbagin and Isodiospyrin on human pathogenic fungi. *Asian Journal of Plant Science and Research* 2012, 12: 1-5
66. Suman R, Sharma P, Gupta S, Sourirajan A and Dev K. A Novel Psychrophilic *Janthinobacterium lividum* MMPP4 Isolated from Manimahesh Lake of Chamba District of Himachal Pradesh. *Journal of Biochemical Technology* 2015, 6(1): 846-851
 67. Thakur N and Tripathi A. Biological management of damping off buckeye rot and Fusarium wilt of tomato (cv. Solan lalima) under mid hill conditions of Himachal Pradesh. *Agricultural Science* 2015, 6: 535-544.
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 71. Tripathi A, Upadhyay RC and Singh S. Extracellular ligninolytic enzymes in *Bjerkandera adusta* and *Lentinus squarrosulus*. *Indian Journal of Microbiology* 2012, 52(3): 381-387.
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School of Bioengineering and Food Technology

1. Publications:

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3. Kaushal A, Goyal L, Kumar A. Recent Advances in Diagnosis of Rheumatic Heart Disease. *Biosci. Biotech. Res. Commun.* 2011, **4(1)**:1-9
4. Pratush A, Seth A, Bhalla TC. (2011). Optimization of process parameters for conversion of 3-cyanopyridine to nicotinamide using resting cells of mutant 4D strain of *Rhodococcus rhodochromus* PA-34. *Int. J. Bioautomation.* 2011, **15 (3)**: 151-158.
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12. Kaur M, Sandhu KS, Ahlawat RP, Sharma S. In vitro starch digestibility, pasting and textural properties of mung bean : Effect of different processing methods. *J. Food Sci. Tech.* 2013, DOI10.1007/s13197-013-1136-2 (IF 2.024)
13. Saini AK, Chauhan PK, Singh V, Sharma P. Phytochemical, Antioxidant & *in vitro* Antibacterial Activity of Aqueous & Ethanolic Fruit Extracts of *Kigelia Africana*. *Ind. J. Pharm. Biol. Res.* 2013. **1(2)**:46-52.
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15. Kumar D, Kumar A, Guleria A, Kumari A. Isolation, immobilization and characterization of xylanase from anew isolate
Bacillus atrophaeus E8. *Int. J. Sci. Res.* 2014, **3(2)**: 33-36. (IF 2.19)
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17. Chauhan PK, Singh S, Kour J, Singh M, Need of Conservation & Management of Endangered plant species of North Western Himalayas- A Review. *World J. Pharma. Res.* 2014, **3(9)**: 222-226. (IF 5.054)
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28. Thakur AD, Saklani A, Sharma S, Joshi VK. Effect of Different Sugar Sources, Pectin esterase and acidulant Concentrations on Pumpkin Wine Production. *Int. J. Food Ferment. Technol.* 2014, **4(1)**: 67-78.

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31. Saini AK, Chauhan PK, Singh V, Sharma P. Phytochemical, Antioxidant & *in vitro* Antibacterial Activity of Aqueous & Ethanolic Fruit Extracts of *Kigelia Africana*. *Ind. J. Pharm. Biol. Res.* 2013, **1(2)**:46-52.
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38. Gupta D, Singh D, Kothiyal NC, Saini AK, Singh VP and Pathania D. Synthesis of chitosan-g-poly(acrylamide)/ZnS nanocomposite for controlled drug delivery and antimicrobial activity. *International Journal of Biological Macromolecules* 2015, 74C:547-555. (IF 3.10)
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