

Dr. Madhavi Joshi

Ph.D. (mycology and microbiology), M.Phil, M.Sc. Botany (Gold Medal)

Book Chapters

1. Rani, N., Joshi, M., Sagar, A. 2016. Algal biofertilizers: Methods of soil management. In: *Microalgae: Windows of Opportunity* .Sharma, M., Bansal, D., Chauhan, A. eds. SBW publishers. Pp. 146-176. ISBN: 9789384871086
2. 2016. Role of microorganisms in ecosystem. In: *Microorganisms- Tools of sustainability*. Rani. N., joshi, M. and Sagar, A. eds. Bishen Singh Mahender Pal Singh Publishers, Dehradun. ISBN: 9788121109505.
3. 2016. Hidden fungi: Role in sustainable development in 21st century. In: *Microorganisms- Tools of sustainability*. Rani. N., joshi, M. and Sagar, A. eds. Bishen Singh Mahender Pal Singh Publishers, Dehradun. ISBN: 9788121109505.
4. Rani, N., Sangwan, P., Joshi, M., Sagar, A and Bala, K. 2018. Microbes: a key player in industrial wastewater treatment. In: *Microbial wastewater treatment*. Maulin P. Shah, Susana Rodriguez-couto eds. Elsevier Inc. Pp: 83-102. ISBN: 978-0-12-816809-7
5. Joshi, M., Chaudhary, P, Bhatia, S.K., Walia, A. and Bhatia, R.K. 2021. Side effects of pesticides in plants and their detoxification mechanism. In: *Environmental Contamination and Climate Change: Effect on Plants and Remedial Strategies* (pp.155-191) Publisher: Nova Science Publishers, (Gautam vandana, kapoor Dhriti and Bhardwaj Renu eds) Inc. ISBN: 978-1-53619-667-2.
6. Rani, N., Joshi, M., Sagar, A. and Sharma, H.R. 2022. Potential impacts of environmental pollution on growth and metabolism of medicinal plants: An overview. In: *Environment pollution and Medicinal plants*. CRS Press Taylor and Francis group. Pp. 1-24. (Azamal Husen ed.) ISBN: 978-1-00-317886-6.

Edited Book

Microorganisms- Tools of Sustainability. Bishen Singh Mahender Pal Singh Publishers, (Nisha, R., **Joshi, M.** and Sagar, A. Eds.) Dehradun. (2016). ISBN: 9788121109505

Authored Book:

Joshi, M., and Sagar, A. Medicinal Mushrooms. SBW Publishers New Delhi. (2017).

Research Papers in peer reviewed journals

1. Sagar, A., **Joshi, M.** and Srivastava, B. 2011. Study on Antifungal activity of *Hydrangea macrophylla* (Thunb). Ser. and *Allium cepa* Linn. against some pathogenic fungi. *Plant Archives*.11 (1):37-41.

2. **Joshi, M.**, Sagar, A. 2014. *In vitro* free radical scavenging activity of *Sparassis crispa* collected from North Western Himalayas, India. *Journal of Mycology*. Vol. 2014: 1-4.

3. **Joshi, M.**, Pathania, P. and Sagar, A. 2014. Phytochemical Analysis and *In vitro* Antibacterial Activity of *Russula lepida* and *Pleurotus ostreatus* from North West Himalayas, India. *International Journal of Pharmacognosy and Phytochemical Research*. 6 (4): 1032-34

4. Sharma, M.V., Sagar, A., **Joshi, M.** 2015. Study on Antibacterial Activity of *Agaricus bisporus* (Lang.) Imbach. *Int.J.Curr.Microbiol.App.Sci* 4(2): 553-558.

5. Pathania, P., **Joshi, M.**, Sagar, A. 2015. Morphological, Physiological and Molecular studies on wildy collected *Cordyceps militaris* from North West Himalayas, India. *European Journal of Biotechnology and Bioscience*; 3 (1): 53-62.

6. **Joshi, M.**, Pathania, P., Sagar, A. 2015. FTIR studies and antimicrobial potential of *Cordyceps militaris* (a highly medicinal fungus) against Hospital Pathogens. *International Journal of Scientific Research*. 4(5): 1-3.

7. Sharma, M.V., **Joshi, M.** and Sagar, A. 2015. *In-vitro* studies on antibacterial activity of *Pleurotus sajor caju*. *Journal of Pure and Applied Microbiology* 9(2): 1111-1115.
8. **Joshi, M.** and Sagar, A. 2016. Culturing and spawning strategies for cultivation of *Ganoderma lucidum* (Curtis) P. Karst. *International Journal of Pharmacy and Pharmaceutical Sciences*. 8(2): 326-328.
9. Rattan, A., **Joshi, M.**, Sagar, A. 2017. Studies on fungal associates of *Betula utilis* D. Don. *The Indian Forester*. 143 (1): 63-66.
10. Sharma, A., **Joshi, M.**, Sagar, A. 2017. Diversity of fungi associated with *Taxus baccata* Linn in different seasons. *The Indian Forester*. 143 (4): 380-384.
11. **Joshi, M.** and Sagar, A. 2016. Evaluation of various substrates for spawn production and cultivation of Shiitake mushroom using corn cobs. *Mushroom Research*. 25 (2) : 119-124.
12. **Joshi, M.**, Sagar, A., Kanwar, S.S., Sukhdev. 2019. Anticancer, antibacterial and antioxidant activities of *Cordyceps militaris*. *Indian Journal of Experimental Biology*. 57