



Seth Vishambhar Nath Institute of Engineering & Technology

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Publications:

Journals SCI, Scopus, Others:

1. Lal M, Kumar A, **Chaudhary S**, Singh R. K., Sharma S and Kumar M (2022). Antagonistic and growth enhancement activities of native *Pseudomonas* spp. against soil and tuber-borne diseases of potato (*Solanum tuberosum* L.). Egyptian Journal of Biological Pest Control, 32:22 (**Impact Factor: 2.06**)
2. **Chaudhary S**, Sagar S, Lal M, Tomar A, Kumar V, Kumar J and Kumar M (2022). Morphogenetic variability of *Rhizoctonia solani* population causing sheath blight disease in rice (*Oryza sativa* L.). J Environ Biol (**Impact factor: 0.78**)
3. Lal M., **Chaudhary S.**, Rawal S., Sharma S., Kumar M., Chakrabarti SK (2021) Evaluation of bio-agents and neem based products against late blight disease (*Phytophthora infestans*) of potato. Indian Phytopathology, 1-7 (**NAAS rating: 5.95**)
4. Lal, M., **Chaudhary, S.**, Kumar, M., Sharma, S. and Chakrabarti, S.K. (2020). First report of collar and stem rot caused by *Rhizoctonia solani* AG1-IA on *Sesbania sesban* in India. Plant Disease. 104(12): 3251 (**Impact factor: 4.2**)
5. **Chaudhary S**, Lal M, Sagar S, Tyagi H, Kumar M, Sharma S, Chakrabarti SK (2020). Genetic diversity studies based on morpho-pathological and molecular variability of the *Sclerotinia sclerotiorum* population infecting potato (*Solanum tuberosum* L.). World J Microbiol Biotechnol 36:177 (**Impact factor: 4.5**)
6. **Chaudhary S**, Sagar S, Lal M, Tomar A, Kumar V, Kumar M (2020) Biocontrol and growth enhancement potential of *Trichoderma* spp. against *Rhizoctonia solani* causing sheath blight disease in rice. J Environ Biol 41:1034-1045. (**Impact factor: 0.78**)
7. **Chaudhary, S.**, Sushma, S., Mukesh, K., Lal, M., Vinay, K. and Akash, T. (2020). Molecular cloning, characterization and semi-quantitative expression of endochitinase gene from the mycoparasitic isolate of *Trichoderma harzianum*. Res J Biotech, 15:4. (**NAAS rating: 4.0**)
8. Murti, S., Singh, R., Lal, M., **Chaudhary, S.**, Kumar, S., Kumar, A., Singh, Y. and Ali, M. (2020). Effect of Carbon, Nitrogen and Vitamins on epidemiological components of sheath blight of rice caused by *Rhizoctonia solani* Kuhn. Int J Curr Microbiol App Sci, 9(7): 1325-1332



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9. **Chaudhary, S.**, Sagar, S. and Lal, M. (2019). A comprehensive overview on sheath blight disease of rice and its management. *Agricultura*, 111: 146-175
10. Ali, M., Singh, R., Lal, M. and **Chaudhary, S.** (2019). Determination the role of weeds hosts in spreading of sheath blight from weeds to rice crop in western plain zone of Uttar Pradesh, India. *Int. J. Curr. Microbiol. Appl. Sci.*, 8(9): 972-982.
11. Lal M, **Chaudhary S**, Yadav S, Sharma S, Chakrabarti SK and Kumar M. (2019). Development of spray schedules for management of late blight of potato using new chemicals. *J Mycol Pl Pathol* 49 (4): 405-412.
12. **Chaudhary S.**, Kumar M., Sengar RS, Chand P., Mishra P, Tomar A (2018) Effect of nutrient status, temperature and pH on mycelial growth, sclerotial production and germination of *Rhizoctonia solani* isolated from paddy fields. *Progressive Agriculture*, 18: 82-91 (**NAAS rating: 4.21**)
13. Kumar M., Gangwar R., Sagar S., **Chaudhary S.**, Kumar Y, Kumar V. (2018) Micro-propagation of Safed Musli (*Chlorophytum borivilianum*)- an endangered medicinal herb. *Technofame*, 7: 26-31.
14. **Sorabh Chaudhary**, Mukesh Kumar, R.S. Sengar, Pooran Chand, Prashant Mishra and Akash Tomar (2017). Antioxidative response in susceptible and resistant cultivars of *Oryza sativa* L. in response to infection by *Rhizoctonia solani*. *South Asian J. Food Technol. Environ.*, 3(1): 507-515
15. Kumar, V., Chaudhary, V.P, Kumar, D., Sagar, S., **Chaudhary, S.** and Kumar, A. (2017). Efficacy of botanicals and fungicides against *Rhizoctonia solani* inciting sheath blight disease on Rice (*Oryza sativa* L.). *Journal of Applied and Natural Science* 9 (4): 1916 -1920. (**NAAS rating: 4.28**)
16. Kumar, A., **Chaudhary, S.**, Sagar, S., Kumar, V. and Kumar, M. (2016). Assessment of genetic diversity among chickpea (*Cicer arietinum* L.) genotypes using EST-SSR markers and SDS-PAGE. *Research Journal of Biotechnology* Vol. 11 (4): 48-57. (**NAAS rating: 4.0**)
17. Prasad, L., **Chaudhary, S.**, Sagar, S. and Tomar, A. (2016). Mycoparasitic capability of diverse native strains of *Trichoderma* spp. against *Fusarium oxysporum*. *Journal of Applied and Natural Science*, 8(2): 769-776 (**NAAS rating: 4.28**)



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18. **Chaudhary, S.,** Sagar, S., Kumar, M., Sengar, R.S. and Tomar, A. (2016). The Use of Enzymes in Food Processing- An Overview. South Asian Journal Food Technol, Environ, 1 (3&4):190-210.
19. **Chaudhary, S.,** Sagar, S., Tomar, A., Sanger, R.S. and Kumar, M. (2016). Banded leaf and sheath blight: a menacing disease of maize (*Zea mays* L.) and its management. Journal of Applied and Natural Science, 8(3): 1720-1730 (**NAAS rating: 4.28**)
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22. Rahul, SN., Khilari, K., Sagar S., **Chaudhary S.,** Kumar S., Vihan N., Tomar T. (2015). Challenges in postharvest management of fungal disease in fruits and vegetables- A review. South Asian J Food Technol Environ, 1: 126-130.
23. Prasad L., Sagar S., **Chaudhary S.,** Kumar N., Tomar A. (2012). Determination of biodiversity using ITS-PCR-CAPS markers for *Trichoderma* sp. from rhizospheric soil of different location in India. Vegetos, 25: 336-341. (**NAAS rating: 5.28**)
24. **Chaudhary S.** and Paul S. (2012) Antimicrobial studies of Silver nanoparticle synthesized from *Vitis vinifera* extract. J Bionanosci, 6: 104-108
25. **Chaudhary S.,** Paul S. and Sagar S. (2012). Biosynthesis of silver nanoparticles using *Vitis-vinifera* extracts and evaluation of their antimicrobial activity. Int J Bio-Tech Res, 2: 1-12
26. Prasad L., Sagar S., **Chaudhary S.** and Tomar A. (2012). A modified method of mRNA extraction from fungi. Cibtech J Bio-protocols, 1: 18-22.
27. Ashutosh Kumar Jaiswal, **Atiq ur Rehman,** Akshoy Ranjan Paul, Anuj Jain. “**Detection of Cavitation through Acoustic Generation in Centrifugal Pump Impeller**” Journal of Applied Fluid Mechanics (SCI), Vol. 12, No. 4, pp. 1103-1113, 2019.



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28. **Atiq ur Rehman**, Akshoy Ranjan Paul, Anuj Jain, "**Performance Analysis and Cavitation Prediction of Centrifugal Pump using Various Working Fluids**" Journal of Recent Patents on Mechanical Engineering (Scopus), Vol. 12, ISSUE: 3, pp.227 – 239, 2019.

Book Chapters Published:

1. Kumar V, Srivastava A, Jain L, **Chaudhary S**, Kaushal P and Soni R (2022). Harnessing the potential of genetically improved bioinoculants for sustainable agriculture: Recent advances and perspectives. In: Soni R, Suyal D C, Yadav A N and Goel R (Eds.) Trends of Applied Microbiology for Sustainable Economy, Academic Press, Elsevier, pp. 319-341
2. Lal, M., **Chaudhary, S.**, Sharma, S., Subhash S. & Kumar, M. (2020). Bio-Intensive Management of Fungal Diseases of Potatoes. In: Chakrabarti, S.K., Sharma, S., Shah, M.A. (eds) Sustainable Management of Potato Pests and Diseases. Springer, Singapore, pp. 453-493.
3. Kumar V, Jain L, **Chaudhary S** and Soni R (2022). Endophytes as Potential Plant Growth Promoters in Forestry. In: Microbes in Agri-Forestry Biotechnology, Taylor and Francis Publication, pp. 241-261.
4. **Atiq Ur Rehman**, Akshoy Ranjan Paul, Anuj Jain, Suvanjan Bhattacharyya "**Computational Approaches in Industrial Centrifugal Pumps**" Published: September 3rd, 2022. DOI: <http://dx.doi.org/10.5772/intechopen.105855>

Conferences/ International Conferences/ Symposium:

1. Sagar, S., Kumar, N., **Chaudhary, S.**, Kumar, R., Purusottam, Tomar, A. and Prasad, L. (2011). "Morphological & Molecular Characterization of Native Strain of *Trichoderma*."- In: National Conference on Recent advance in Fungal Biotechnology" at FRI, Dehradun.
2. Sagar, S., Chaudhary, S., Kumar, N., Kumar, R., Purusottam, Tomar, A. and Prasad, L. (2011). Biological Control Activity of Native Strain of *Trichoderma*." Published in National Conference on Recent advance in Fungal Biotechnology, at RFI, Dehradun.
3. Tomar, A., **Chaudhary, S.**, Sagar, S., Prasad, L. Tomar, A. and Purushottam (2011). "A simple and fast technique for fungal flora isolation from soil samples". In: International Conference on "Issues for Climate Change, Land use Diversification and Biotechnological Tools for Livelihood Security" at S.V. Patel Univ. of Agric & Tech, Meerut (U.P.), India, on 8-10 October, 2011



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5. Sagar, S., **Chaudhary, S.**, Sengar, R. S., and Kumar, M. (2013) “what are processed food and their effect on health?” Published in National Conference on “Bioactive compound and functional foods in health and disease management” at NIFTEM, Sonapat, Haryana, India, on 15-16 Nov, 2013.
6. **Chaudhary, S.**, Sagar, S., Kumar, M. and Chand, P. (2014) “Silver nanoparticle enhanced the ethanol tolerance of *Saccharomyces cerevisiae*” Published in National Conference on “science of omics for agricultural productivity: Future prospective” at G.B. Pant Univ. of Agric & Tech, Pantnagar (Uttarakhand), India, on 4-6 march, 2014
7. Sagar, S., **Chaudhary, S.**, Sengar, R. S. and Tomar, A. (2014) “Importance of bioinformatics as a tool for sugarcane research” Published in National Conference on “ science of omics for agricultural productivity: future prospective” at G. B. Pant Univ. of Agric & Tech, Pantnagar (Uttarakhand), India, on 4-6 march, 2014.
8. Sagar, S., **Chaudhary, S.**, Kumar, M., Kumar, N. and Rahul, S. N. (2014) “Effect of global warming on agriculture field” in 2nd International Conference on “Emerging food safety risks: Challenges for developing countries” at NIFTEM, Sonapat, Haryana, India, on 4-6 Jan, 2014.
9. Sagar, S., **Chaudhary, S.** and Singh, D. (2014). “A new concept of genetic enhancement: It is a drying art” Published in National Conference on Emerging Problems and Recent Advances in Applied Sciences: Basic to Molecular Approaches. Ch. Charan Singh University, Meerut, on 8-9 Feb, 2014
10. Sagar, S., Sengar, R. S., **Chaudhary, S.**, Rahul, S. N., Vihan, N., Tomar, P., Tomar, A. and Prasad, L. (2015). “Biological control with reference to integrated pest management in sugarcane” Published in National symposium on Integrated pest management for sustainable crop protection” at Division of entomology, IARI, New Delhi, on 24-25 Feb, 2015.
11. **Chaudhary, S.**, Kumar, M., Sagar, S., Rahul, S. N., Vihan, N., Tomar, A. and Prasad, L. (2015). “Nano-pesticides: Solution for a cleaner and greener agriculture” Published in National



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- symposium on Integrated pest management for sustainable crop protection” at Division of Entomology, IARI, New Delhi, on 24-25 Feb, 2015
12. Vihan, N., Sagar S., **Chaudhary, S.**, Rahul, S. N., Prasad, L. Tomar, P. and Tomar, A. (2015). “Genetically Modified Crop in Integrated Pest Management” Published in National symposium on Integrated pest management for sustainable crop protection” at Division of Entomology, IARI, New Delhi, on 24-25 Feb, 2015
 13. Rahul, S. N., Khilari, K., Sagar, S., **Chaudhary, S.**, Kumar, S., Vihan, N., Tomar, A. and Prasad, L. (2015). “Entomopathogenic Fungus: Reliable and Effective Tools of Integrated Pest Management” Published in National symposium on Integrated pest management for sustainable crop protection” at Division of entomology, ICARI, New Delhi, on 24-25 Feb, 2015.
 14. Kumar, A., Sagar, S., **Chaudhary, S.**, Rahul, S. N., Trivedi, P., Vihan, N., Yadav, M. K., Kumar, R., Dhyani, B. P., Purushottam and Tomar, A. (2016). Evaluation of Zinc solubilization potential of different native strains of Fluorescent *Pseudomonas*. 6th International conference “Plant, Pathogen and People”. February 23-27, 2016 New Delhi. Pp. 97. (Orally Presented by Sagar, S.).
 15. Trivedi, P., Sagar, S., **Chaudhary, S.**, Rahul, S. N., Vihan, N., Yadav, M. K., Kumar, R., Dhyani, B. P., Purushottam and Tomar, A. (2016). Phosphorus solubilizing activity of native *Pseudomonas* strains. 6th International conference “Plant, Pathogen and People”. February 23-27, 2016 New Delhi. Pp. 465.
 16. Vihan, N., Sagar, S., **Chaudhary, S.**, Rahul, S. N., Yadav, M. K., Kumar, R., Dhyani, B. P., Prasad, L., Purushottam and Tomar, A. (2016). Phosphorus solubilizing activity of native *Trichoderma* and other microbial strains .6th International conference “Plant, Pathogen and People”. February 23-27, 2016 New Delhi. Pp. 465
 17. Kumar, S., Kumar, S., Sagar, S., **Chaudhary, S.**, Rahul, S. N., Yadav, M. K., Kumar, R., Prasad, L., Purushottam and Tomar, A. (2016). Studies for optimization of genomic DNA extraction protocol for fungi *Trichoderma*. National conference on Plant Science Research: Looking beyond 21st Century for environmental and Agriculture Revolution. February 5-7. Pp45.
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19. Rahul, S. N., Khilari, K., Singh, R., Mishra, P., Sagar, S., **Chaudhary, S.**, Jain, K. S., Tomar, A. and Prasad, L. (2016). Study of biocontrol efficacy and plant growth promotion of twenty native isolates of *Trichoderma* spp. National conference on Plant Science Research: Looking beyond 21st Century for environmental and Agriculture Revolution. February 5-7. Pp48.
 20. **Atiq ur Rehman**, Akshoy Ranjan Paul, Anuj Jain, "Performance Analysis of Centrifugal Pump using Various Working Fluids", Proceedings of the 44th National Conference on Fluid Mechanics and Fluid Power December 14-16, 2017, Amrita University, Amritapuri Campus, Kollam, Kerala, India, Paper ID: 260.
 21. **Atiq ur Rehman**, Akshoy Ranjan Paul, Anuj Jain, "Effect of Impeller Volute Interaction on Performance of the Centrifugal Pump: A CFD Approach. 3rd Indian conference of Applied Mechanics (INCAM-2017), 5-7 July 2017, MNNIT, Allahabad
 22. **Atiq ur Rehman**, Vinoth Kumar K., Anuj Jain, Akshoy Ranjan Paul, "Performance and Cavitation Prediction in an Industrial Centrifugal Pump for Different Working Fluids", First International Conference on Thermal and Fluid Engineering (ICTF-2017), 3-5 July 2017, Phuket (Thailand), pp. 36-42, ISBN No. 978-605-9546-05-8.
 23. **Atiq ur Rehman**, Pankaj Yadav, Akshoy Ranjan Paul and Anuj Jain, "Effect of Number of Blades on Performance of a Centrifugal Pump", Proceedings of 6th International and 43rd National Conference on Fluid Mechanics and Fluid Power (FMFP-2016) 15-17 Dec. 2016, MNNIT Allahabad (India). ISBN No. 978-93- 5267-407-7.
 24. Ashish Kumar Mishra, **Atiq ur Rehman**, Akshoy Ranjan Paul and Anuj Jain, "Performance Analysis of an Impeller of a Centrifugal Pump using OpenFOAM", Proceedings of 6th International and 43rd National Conference on Fluid Mechanics and Fluid Power (FMFP-2016) 15-17 Dec. 2016, MNNIT Allahabad (India). ISBN No. 978-93- 5267-407-7.
 25. **Atiq ur Rehman**, Mohammad Tarique and V.K.Nema, " Sizing of a Simple Turbo-Jet Engine and Matching of its Components at off-Design Conditions" Proceedings of 6th International and 43rd National Conference on Fluid Mechanics and Fluid Power (FMFP-2016) 15-17 Dec. 2016, MNNIT Allahabad (India). ISBN No. 978-93- 5267-407-7.



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26. **Atiq ur Rehman**, Shivam Srivastava, Anuj Jain, Akshoy Ranjan Paul, Rakesh Mishra, "Effect of Blade Trailing Edge Angle on the Performance of a Centrifugal Pump Impeller", Proceedings of COMADEM-2015, Dec. 1-4, 2015, Buenos Aires, Argentina. ISBN: 978-98-7239-576-6.
27. Subhashis Nandy, **Atiq ur Rehman**, Anuj Jain, Rakesh Mishra, R.K. Tripathi, "Flow Diagnostics in Centrifugal Pumps by Motor Current Signature Analysis", Proceedings of COMADEM-2015, Dec. 1-4, 2015, Buenos Aires, Argentina. ISBN: 978-98-7239-576-6.
28. **Atiq ur Rehman**, Subhash Shinde, Akshoy Ranjan Paul, Anuj Jain, "Effects of Discharge on the Performance of an Industrial Centrifugal Pump", Proceedings of International Conference on Computing Techniques and Mechanical Engineering (ICCTME-2015), Oct. 1-3, 2015, Phuket (Thailand), paper ID: U1015114, pp. 23-30, ISBN: 978-93-8442-240-0.
29. **Atique ur Rehman**, Subhash Shinde, Vikash K. Singh, Akahoy R. Paul, Anuj Jain, Rakesh Mishra, "CFD based condition monitoring of centrifugal pumps", Proceedings of COMADEM 2013, 11-13 June 2013, Helsinki, Finland, ISBN 978-95-2679-810-3.
30. Deepak Kumar Kalyan, **Atiq ur Rehman**, Akshoy Ranjan Paul, Anuj Jain, "Computational Flow Analysis through a Double-Suction Impeller of a Centrifugal Pump", Proceedings of 40th National Conference on Fluid Mechanics & Fluid Power (FMFP-2013), 12-14 December 2013, NIT Hamirpur, Himachal Pradesh, Paper code: 141, , ISBN: 978-93-8288-090-5.
31. **Atique ur Rehman**, V.K.Nema " Off-design Component matching of a turbo shaft Engine" Proceedings of 36th National Conference on Fluid Mechanics & Fluid Power (NCFMFP-2009), December 17-19, 2009, College of Engineering, Pune, Maharashtra. Paper code: 102-ANT-27.