

# K.S. Saket P.G. College - Faculty Profile

Name: Dr. Awadhesh Kumar Shukla

Designation: Assistant Professor

Qualification: MSc, PhD, NET-JRF

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About:

About Dr. Awadhesh Kumar Shukla is currently serving as an Assistant Professor of Botany at K.S. Saket P.G. College, Ayodhya, Uttar Pradesh, India. He earned his doctoral degree in Botany from Banaras Hindu University, Varanasi, where his research focused on the biodegradation of trichloroethylene using bacterial communities. Following his Ph.D., Dr. Shukla was awarded the CSIR Research Associateship (New Delhi) and worked as a postdoctoral researcher in the Department of Botany at Banaras Hindu University from 2012 to 2015. He was subsequently honored with the prestigious Dr. D.S. Kothari Postdoctoral Fellowship (higher fellowship category) by the University Grants Commission (UGC). Dr. Shukla has published more than 20 research and review articles in reputed international journals, along with over six book chapters. His work has gained recognition at the international level for its scientific contribution and practical relevance. Throughout his academic career, he has received several prestigious fellowships and awards, including the Young Scientist Award, CSIR Research Associateship, UGC Dr. D.S. Kothari Postdoctoral Fellowship, UGC-NET JRF, CSIR-NET JRF, and CSIR-SRF. He is also a lifetime member of Academic Societies such as the Association of Microbiologists of India (AMI), &nbsp;Biotech Research Society, India (BRSI) and ICAR- (BSMS) Biotic Stress Management Society, India

Research:

Research With over a decade of research experience, Dr. Shukla has actively contributed to the fields of plant-microbe interactions and the utilization of microbial communities for the remediation of xenobiotics. His research primarily focuses on rhizosphere-associated microbial communities and their potential applications in environmental cleanup and sustainable agriculture.

Publications:

Publications Research and Review Articles &nbsp;Shukla AK., Pranjali Vishwakarma, S.N. Upadhyay, Anil K Tripathi, H.C. Prasanna and Suresh K Dubey (2009). Biodegradation of trichloroethylene (TCE) by methanotrophic community. *Bioresource Technology*, 100, 2469-2474. [IF: 9.0] &nbsp;Shukla AK, Pranjali Vishwakarma , R. S. Singh , S.N. Upadhyay , Suresh K. Dubey (2010a). &nbsp;Biofiltration of trichloroethylene using diazotrophic bacterial community. *Bioresource Technology*. 101, 2126-2133. [IF: 9.0] Shukla AK, R. S. Singh , S.N. Upadhyay , Suresh K. Dubey (2010b). Kinetics of &nbsp;biofiltration &nbsp; &nbsp; of trichloroethylene by methanotrophs in presence of methanol. &nbsp; *Bioresource Technology*. 101, 8119- 8126. [IF: 9.0] Shukla AK, R. S. Singh , S.N. Upadhyay , Suresh K. Dubey (2011). Substrate inhibition during bio-filtration of TCE using diazotrophic bacterial community. *Bioresource Technology* . 102, 3561-3563. &nbsp;[IF: 9.0] Yadav M, Srivastava N, Shukla AK, &nbsp;&nbsp;R.S.Singh, S.N Upadhyay, Suresh K Dubey (2015) Efficacy of *Aspergillus* sp. for degradation of chlorpyrifos in batch and continuous aerated packed bed bioreactors. *Applied Biochemistry and Biotechnology*. &nbsp;175, &nbsp;16-24. [IF: 3.3] Srivastava N, Shukla AK, &nbsp;Singh RS, Upadhyay SN, Dubey SK (2015) Characterization of bacterial isolates from rubber dump site and their use for biodegradation of isoprene in batch and continuous bioreactors. *Bioresource Technology*. 188, 84-91. &nbsp;[IF: 9.0]. Shukla AK, &nbsp;S.N. Upadhyay, Suresh. K. Dubey (2014). Current trends in trichloroethylene biodegradation: a review: *Critical Reviews in Biotechnology*. 34, 101-114. [IF: 7.7]. &nbsp;Yadav M\*, Shukla AK\*, &nbsp;N Srivastava\*, S.N Upadhyay,