Dr. Sweta Yadav

Assistant Professor

Department of Microbiology

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Academic Qualifications: Ph.D. (Microbiology)
M.Sc. (Microbiology)

Teaching Experience (Year)	8 years 7 months	**Research Experience (Year)**	07 years

Area of Research/ Specialization	Seven years of experience in process engineering with expertise in anaerobic fermentation. My research area was focused on bioprocess and product development. I have expertise in scale up of process in 10L, 30L and 100L fermentation size, strain improvement, downstream processing and applications of these molecules.
Publications	**1.** Yadav, S., Rawat, G., Tripathi, P., Saxena, R.K. (2014). A novel approach for biobutanol production by *Clostridium acetobutylicum* using glycerol: a low-cost substrate. Renewable Energy. 71: 37–42**. (Citation 46; Impact Factor 8.634; ISSN: 0960-1481).** **2.** Yadav, S., Rawat, G., Tripathi, P., Saxena, R.K. (2014). Dual substrate strategy to enhance butanol production using high cell inoculum and its efficient recovery by pervaporation. Bioresource Technology. 152: 377–383. **(Citation 13; Impact Factor 11.4; ISSN: 0960-8524).** **3.** Tripathi, P., Rawat, G., Yadav, S. and Saxena, R.K. (2014). Shikimic acid, a base compound for the formulation of swine/avian flu drug: statistical optimization, fed-batch and scale up studies alongwith its application as an antibacterial agent. *Antonie van Leeuwenhoek*. 107 (2): 419-431. **(Citation 18; Impact Factor 2.158; ISSN: 1572-9699).** **4.** Saran, S., Yadav, S. and Saxena, R.K. (2014). Development of a highly sensitive, fast and efficient screening technique for

	the detection of 2,3-butanediol by thin layer chromatography. Journal of Chromatography & Separation Technique. dx.doi.org/10.4172/2157-7064.1000251 **(Citation 1; Impact Factor 4.34; ISSN: 2157-7064).** **5.** Kumar, V., Yadav, S., Jahan, F., Raghuwanshi, S. and Saxena, R.K. (2013). Organic synthesis of maize starch based polymer using *Rhizopus oryzae* lipase, scale up and its characterization. Preparative Biochemistry and Biotechnology. 44(4): 321-31. **(Citation 8; Impact Factor 3.141; ISSN: 0377-2063).** **6.** Tripathi, P., Rawat, G., Yadav, S. and Saxena, R.K. (2013). Fermentative production of shikimic acid: a paradigm shift of production concept from plant route to microbial route. Bioprocess and Biosystems engineering. 36 (11): 1665-1673. **(Citation 17; Impact Factor 3.434; ISSN: 1615-7605).** **7.** Rawat, G., Tripathi, P., Yadav, S. and Saxena, R.K (2013). An interactive study of influential parameters for shikimic acid production using statistical approach, scale up and its inhibitory action on different lipases. Bioresource Technology. 144: 675–679. **(Citation 15; Impact Factor 11.4; ISSN: 0960-8524).** **8.** Anand, P., Saxena, R.K., Yadav S., Jahan, F. (2010). A greener solution for darker side of biodiesel: utilization of glycerol in 1,3-propanediol production. Journal of Biofuels. 1(1) 83– 91. **(Citation 9; ISSN: 0976-4763)**