

Dr. Sweta Yadav
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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 inscale up of process in 10L, 30L and 100L fermentation size, strain improvement, downstream processing and applications of these molecules.		
Publications	<ol style="list-style-type: none"> 1. Yadav, S., Rawat, G., Tripathi, P., Saxena, R.K. (2014). A novel approach for biobutanol production by <i>Clostridium acetobutylicum</i> using glycerol: a low-cost substrate. <i>Renewable Energy</i>. 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. <i>Bioresource Technology</i>. 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. <i>Antonie van Leeuwenhoek</i>. 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. <i>Journal of Chromatography & Separation Technique</i>. 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 <i>Rhizopus oryzae</i> lipase, scale up and its characterization. <i>Preparative Biochemistry and</i> 		

	<p>Biotechnology. 44(4): 321-31. (Citation 8; Impact Factor 3.141; ISSN: 0377-2063).</p> <p>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. <i>Bioprocess and Biosystems engineering</i>. 36 (11): 1665-1673. (Citation 17; Impact Factor 3.434; ISSN: 1615-7605).</p> <p>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. <i>Bioresource Technology</i>. 144: 675–679. (Citation 15; Impact Factor 11.4; ISSN: 0960-8524).</p> <p>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. <i>Journal of Biofuels</i>. 1(1) 83– 91. (Citation 9; ISSN: 0976-4763)</p>
Financial Grants/Support	<p>Financial Grants were received from University of Delhi and Department of Biotechnology (DBT) to attend “European Congress of Biotechnology 2013” held at Bratislava, Slovakia.</p> <p>Awarded Junior and Senior Research Fellowship (JRF and SRF) by the Ministry of New and Renewable Energy (MNRE) in March, 2011.</p>
Awards	<p>Best oral presentation award in the international conference “European Congress of Biotechnology 2013” held at Bratislava, Slovakia (May, 16-19 2013), on “Butanol: Conversion of glycerol into biobutanol by <i>Clostridium acetobutylicum</i>: turning bacteria into biofuel factories”.</p> <p>Best poster presentation award in the international conference “Asian Congress on Biotechnology 2013” under the aegis of Asian Federation of Biotechnology, held at IIT, New Delhi (December 15-16, 2013), India on “Potential of <i>Clostridium acetobutylicum</i> KF158795 for ABE fermentation using glycerol as a raw material”.</p> <p>Participated and got an appreciation letter from M.S. Swaminathan, Chairman, Genetics Congress Trust in the workshop on “Microbes and Environment” conducted by XV International Genetics Congress Trust at Department of Genetics, South Campus, Delhi University on 6th and 7th February’ 2009</p>
Professional Association and Membership	<p>Asian Federation of Biotechnology Microbiologist’s Society of India</p>