

Name: Dr. Kriti Bhandari
Academic Profile

1. PhD (Biochemical Engineering) – National Institute of Technology, Jaipur
Thesis Title: Studies on Synthesis of Docosahexaenoic Acid Rich Triglycerides from Fish Oil
2. M.Sc. (Biotechnology) – University of Rajasthan, Jaipur

Research Interests

Bioprocess and Enzyme Engineering, Oil/ Fat Processing, Biofuels.

Research Publications:

1. **Kriti Bhandari** , S. P. Chaurasia and K. Singh, “Kinetics of Enzymatic Hydrolysis of Indian Tuna Fish Oil using *Candida rugosa* Lipase,” Indian Journal of Biotechnology, Vol.16, pp. 413-418, 2017, Impact factor: 0.6.
2. **Kriti Bhandari**, S.P. Chaurasia, Aditi Sharma and A.K. Dalai, “A Review on Lipase Catalysed Synthesis of DHA Rich Glyceride from Fish Oils”, International Journal of Research and Scientific Innovation, Volume III, Issue IA, ISSN 2321- 270, pp. 9-19, January 2016 Impact factor: 2.08.
3. **Kriti Bhandari**, S.P. Chaurasia and A.K. Dalai, “Lipase catalyzed esterification of Docosahexaenoic acid rich fatty acids with glycerol,” Chemical Engineering Communications, Vol. 202, pp. 920-926, 2015, Impact factor: 1.05.
4. **Kriti Bhandari**, S.P. Chaurasia, A.K. Dalai, Alok Gupta, and K. Singh, “Kinetic study on enzymatic esterification of tuna fish oil fatty acids with butanol,” Journal of Molecular Catalysis: B, Vol. 94, pp. 104-110, 2013, Impact factor: 2.75.
5. **Kriti Bhandari**, S.P. Chaurasia, A.K. Dalai and Alok Gupta, “Purification of free DHA by selective esterification of fatty acids from tuna oil catalyzed by *Rhizopus oryzae* lipase,” Journal of the American Oil Chemists’ Society, Vol. 90, Issue 11, pp. 1637-1644, 2013, Impact factor: 2.18.
6. **Kriti Bhandari**, S.P. Chaurasia and A.K. Dalai, “Hydrolysis of tuna fish oil using *Candida rugosa* lipase for producing fatty acids containing DHA,” International Journal of Applied and Natural Sciences, ISSN 2319-4014, Vol. 2, Issue 3, pp. 1-12, 2013, Impact factor: 2.95
7. **Kriti Bhandari** and S. P. Chaurasia, “Enzymatic Esterification of Oleic Acid with Lauryl Alcohol”, International Journal of Engineering Research and Technology, ISSN 0974-3154, Vol. 6 (5), pp. 111-116, 2013.

8. **Kriti Bhandari**, S.P. Chaurasia, A.K. Dalai and Alok Gupta, “Enzymatic Hydrolysis of Sardine Fish oil for DHA Concentration”, International Journal of Environmental Engineering & Management”, ISSN 2231-1319, Vol. 3, pp. 171-174, June, 2012.
9. Aditi Sharma, **Kriti Bhandari** and S. P. Chaurasia, “Kinetic Study of Cod liver Fish oil Hydrolysis with *Candida rugosa* lipase,” Journal of Lipid Science and Technology, ISSN 0973-6379, Vol. 42(4), Oct-Dec, 2010.

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- Chemical Engineering Communications