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## Reconnaissance of pterin deaminase

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Pterin deaminase is an amidohydrolase enzyme which hydrolyses pteridines to produce lumazine derivatives and ammonia. Eventhough the enzyme was reported as early as 1959 for its anticancer efficacy there was a long gap in the communique after that which was in 2012. It was reported to be ubiquitously present in prokaryotes both bacteria and fungi. It was also stated to be present in some eukaryotes such as honey bee, silkworm and rats. The enzyme has been observed to have a spectrum of substrates with the formation of respective lumazines. The substrates of the enzyme, which includes an array of pteridines, seems to play a significant role in various metabolic pathways. This fact in turn accredits the biological significance of the enzyme in both prokaryotes and eukaryotes. Even though the functions of the enzyme have been explored in prokaryotes their niche in eukaryotic system is not clear. There is very few information on the structural and functional properties of the enzyme which needs to be addressed by the scientific community.

### Biography

J. Angayarkanni is the Head of the department of Microbial Biotechnology, Bharathiar University. She finished her Ph.D. degree in Biotechnology in 2002 and joined as teaching position in 2005. She has published around 67 publications and one book chapter. She has also got one Indian patent in pterin deaminase.

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