

**INSTITUTE OF CHEMICAL TECHNOLOGY****रसायन तंत्रज्ञान संस्था**

Deemed to be University under Section-3 of UGC Act 1956

Elite Status &amp; Centre of Excellence - Government of Maharashtra



### Citation on the outstanding research work carried out by Prof Diwan S Rawat

Prof. D. S. Rawat has been involved in the synthesis of small organic molecules as a potential anti-cancer, anti-TB, anti-malarial and anti-Parkinson agents and catalysis. His group has successfully demonstrated that molecular hybridization can improve the biological activity of the resulting hybrids. This work has led the discovery of low nano molar in vitro and in vivo antimalarial and anti-Parkinson agents with no toxicity. Some of these compounds activates Nurr1 enzyme and protects the dopamine neurons hence showed a great potential to be developed as a drug for the treatment of Parkinson's disease and Boston based pharma industry NURRON has taken up these molecules for development as a drug. He has also made significant contribution in the area of nano-catalysis for the synthesis of industrially important biologically active heterocycles. His efforts are evidenced by 156 publications in international journals of high reputes and 9 patents and have over 5646 citations with h-index 45, and a book and four book chapters to his credit. The book entitled "Bioactive marine natural products" was reviewed by Journal of American Society (J. Am. Chem. Soc. 128, 4494, 2006). His work has appeared on the cover page of ACS Sus Chem. Eng., Tetrahedron Letters and highlighted by Synfact. Prof Rawat is an Associate Editor of Scientific Reports and RSC Advances.

Regards,

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