Date – 9/8/2023

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

Prof. D. S. Rawat`s has made significant contribution in the area of drug development and catalysis. He utilized molecular hybridization concept in the designing new chemical entities and demonstrated that the resulting hybrids can improve the biological activity. This work has led the discovery of low nano molar in vitro and in vivo antimalarial and anti-Parkinson agents with no toxicity. A massive collaborative work resulted in the identification of many hybrids as Nurr1 activator and showed potent anti-Parkinson activity (**US 11,026,943 B2/2021; US 0023930 A1, 2017**) and it resulted a publication in **Nature Communication 2023**. The technology has been transferred to NurrON pharmaceuticals for development drug for the treatment of Parkinson disease and recently NurrOn entered into co-development agreement with HanAll Biopharma and Daewoong Pharmaceuticals to develop ATH-399A for Parkinson's disease. Phase I clinical trials of these molecules have been funded by MJ Fox Foundation (https://nurronpharma.com/media-relation). Prof Rawat has also made significant contribution in the area of catalyst design and its use in the synthesis of biologically active, industrially important molecules and API and that resulted publications in high impact journal such as **ACS Sustainable Chem. Engg (12 papers). ChemCatChem (3 papers), Adv. Synth. Catal.(1 paper); Green Chem. (3 papers).**

Prof Rawat has published 166 research papers with over 6620 citations, h-index 48 and i-10 index 130. He has eight patents, and a book and five book chapters to his credit. The book entitled "Bioactive marine natural products" was published by Springer and book was reviewed by Journal of American Society (**J. Am. Chem. Soc. 128, 4494, 2006**). Professor Rawat is an excellent teacher and he has developed YouTube lectures on Organic Spectroscopy which has over 25000 viewers and about 4500 subscribers.

VKSingh

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