

Peer reviewed International Journals (Published)

- 1) **Vandana Dahiya**, Bibin G. Anand, Karunakar Kar, Samanwita Pal; "Analyzing organophosphate pesticide-serum albumin binding interaction: A combined STD NMR and molecular docking study" *Biomolecular structure and Dynamics* (2020).
- 2) **Vandana Dahiya**, Bibin G. Anand, Karunakar Kar, Samanwita Pal; "In Vitro interaction of organophosphate metabolites with bovine serum albumin: a comparative ¹H NMR, fluorescence and molecular docking analysis" *Pesticide Biochemistry and Physiology* (October 2019 accepted).
- 3) **Vandana Dahiya**, Bhawna Chaubey, Ashok K. Dhaharwal, Samanwita Pal. "Solvent-dependent binding interactions of the organophosphate pesticide, chlorpyrifos (CPF), and its metabolite, 3,5,6-trichloro-2-pyridinol (TCPy), with Bovine Serum Albumin (BSA): A comparative fluorescence quenching analysis" *Pesticide Biochemistry and Physiology* (2017).
- 4) Salian, S. R., Nayak, G., Kumari, S., Patel, S., Gowda, S., Shenoy, Y., Sugunan, S., GK, R., Managuli, R., Mutalik. S., **Dahiya, V**, Pal, S., Adiga, S. & amp; K. Guruprasad. "Supplementation of biotin to sperm preparation medium enhances fertilizing ability of spermatozoa and improves pre implantation embryo development". *Journal of Assisted Reproduction and Genetics*. ISSN: 1058-0468, 2019.

Peer reviewed International Conference proceedings

- 1) **Vandana**, Samanwita Pal; "The Effect of Paracetamol on 5-Fluorouracil and Bovine Serum Albumin Interaction: A Biophysical Study" *AIP Conference Proceedings*, 1953, 140012 (2018).

Under review or preparation

- 1) **Vandana Dahiya**, and Samanwita Pal; "Probing the molecular interaction mechanism of Organophosphate pesticides and their metabolites to trypsin" (*manuscript* under preparation).
- 2) **Vandana Dahiya**, and Samanwita Pal; "Solution-state NMR account for organophosphate pesticides-macromolecule interaction" (review under preparation).

Conference without proceedings

- 1) **Vandana Dahiya** and Samanwita Pal. (Poster) "A Comparative Saturation Transfer Difference (STD) NMR analysis of *in vitro* Organophosphate Pesticide (OP) - Protein complexes" presented at 24th National Conference of the Nuclear Magnetic Resonance Society of India (NMRS-2018), at IISER Mohali, Chandigarh.
- 2) **Vandana Dahiya** and Samanwita Pal. (Oral) "Characterization of BSA-Diazinon Interaction Using Saturation Transfer Difference (STD) NMR Spectroscopy" presented at ICPIPEHH-2017 at Department of Chemistry at Dayananda Sagar University, Bengaluru.
- 3) **Vandana**, Samanwita Pal. (Poster) "NMR Relaxation Analysis of Pesticide Protein Interaction" 22nd Conference of National Magnetic Resonance Society of India (NMRS-2016) at Department of Chemistry, Indian Institute of Technology Kharagpur, India.

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