

Dr Sapna Katna

Senior Scientist

Specialization: Toxicology/ Pesticide Residues

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Ongoing Research Projects

- All India Coordinated Research Project on Project on Pesticide Residue funded by ICAR for 60lakhs/annum (Principal Investigator/Co-PI: Dr Sapna Katna (PI) and Dr Tanuja Banshtu (Co-PI).
- Sponsored Trial/Testing fees for residue detection funded by corporate sector with average grant of 80 lakhs/annum (PI: Dr Sapna Katna).
- Himachal Pradesh Horticulture Development Project (HPHDP)- Component: Plant Protection (Entomology) funded by World Bank with grant of Rs 312 lakh. From 2016 to 2023(Co-PI: Dr Rakesh Kumar Co-PI Dr Sapna Katna).

Important Research Publications

- Singh Shubhra, Dubey Jatiender Kumar, Katna Sapna, Sharma Ajay, Devi Nisha, Brar Gaganpreet Singh, Singh Gagandeep, Gautam Himani and Thakur Nimisha. 2022. Dissipation pattern and dietary risk assessment of some commonly used insecticides on tomato (*Solanum lycopersicum* L.). *Biomedical Chromatography*. **e5372**. <https://doi.org/10.1002/bmc.5372>.
- Dubey JK, Katna Sapna, Shandil Deepika, Devi Nisha, Singh Gaganpreet, Singh Gagandeep, Singh Shubhra, Kaushik Ekta and Sharma Ajay. 2021. Dissipation kinetics and dietary risk assessment of spiromesifen on major summer vegetables using good agricultural practices. *Biomedical Chromatography*. **e5085**. <https://doi.org/10.1002/bmc.5085>.
- Sharma Ajay, Dubey JK, Katna Sapna, Shandil Deepika, Brar Gaganpreet Singh and Singh Shubhra. 2021. Validation of analytical methods used for pesticideresidue detection in fruits and vegetables. *Food Analytical Methods*. <https://doi.org/10.1007/s12161-021-02027-y>.
- Sharma KK, Tripathy Vandana, Mohapatra Soudamini, Matadha NY, Pathan A R K, Sharma BN, Dubey JK, Katna Sapna, George Thomas, Tayade Amol, Sharma Khushbu, Gupta Ruchi, Walia Suresh. 2021. Dissipation kinetics and consumer risk assessment of novaluron +lambda-cyhalothrin co-formulation in cabbage. *Ecotoxicology and Environmental Safety*. **208**:111494.
- Dubey JK, Patyal SK, Katna Sapna, Shandil Deepika, Devi Nisha, Singh GP and Singh GD. 2020. Persistence and dissipation kinetics of tebuconazole in apple, tomato, chilli and onion crops of Himachal Pradesh, India. *Environmental Science and Pollution Research* **27**: 11290- 11302 <https://doi.org/10.1007/s11356-020-07724-5>.
- Kaushik E, Dubey JK, Patyal SK, Katna S, Chauhan A and Devi N. 2019. Persistence of tetraniliprole and reduction in its residues by various culinary practices in tomato in India. *Environmental Science and Pollution Research* **26**: 22464-22471 <https://doi.org/10.1007/s11356-019-054738-6>.

- Sharma Divya, Katna S, Sharma R, Rana BS, Sharma H K, Bhardwaj V and Chauhan A. 2019. First detection of *Nosema ceranae* infecting *Apis mellifera* in India. *Journal of Apicultural Science* **63**:165-170 doi: 10.2478/JAS-2019-0002.
- Katna S, Dubey JK, Patyal SK, Devi N, Chauhan A and Sharma A. 2018. Residue dynamics and risk assessment of Luna Experience® (fluopyram+ tebuconazole) and chlorpyrifos on French beans (*Phaseolus vulgaris* L.). *Environmental Science and Pollution Research* **25**:27594–27605 <https://doi.org/10.1007/s11356-018-2733-4>.
- Patyal SK, Dubey JK, Katna S, Chauhan A, Devi N and Wani, AA. 2018. Residue and Risk Assessment of Spirotetramat in/on Apple. *Pesticide Research Journal* **30**(1): 51-58 doi: 10.5958/2249-524X.2018.000092.
- Dubey JK, Patyal SK, Katna S, Sharma A, Chauhan A and Devi N. 2017 Residues of flupyradifurone on apple fruits and soil. *Pesticide Research Journal* **29**(2): 224-229.

Books

- Avinash Chauhan, B S Rana and Sapna Katna. 2015. Bumble bees in India-Rearing and Management. Lambert Academic Publishing, United States 148p.