

1 Name of the Scientist Dr Anoop Kumar



2 Biodata

a. Designation Scientist (Entomology)

b. e-mail anoopkumario@gmail.com

c. Telephone no. (O) 25843935 Ext. 217
M.8588090462

d. Joining date in ICAR 1 Jan 2015

e. Discipline & specialization Entomology
IPM in Cotton and Biological control

f. Training/ advance exposure in the area of work

- Completed one week course on Direct Trainer Skills (DTS) at DDU State Institute of Rural Development, Bakhshi Ka Talab Lucknow, UP from Feb 03-07, 2014. Sponsored by Department of Personnel and Training, Government of India.
- Three months FOCARS 101 training at NAARM, Hyderabad 1 Jan to 31 March 2015
- *Three Months Professional Attachment training at Division of Entomology, IARI, New Delhi from 25 May to 24 Aug 2015.*
- *21 Days training on 'New Generation smart agrochemical oriented approaches for crops and human health management' at Division of Agriculture Chemicals, ICAR-IARI, New Delhi from Dec 7-27, 2017*

3. Contribution to the scientific advancement

- IPM in cotton in whitefly hot spots validated successfully.
- Biosafety assessment of insecticides to parasitoid *Trichogramma chilonis* Ishii

4. Current area of research

- Synthesis, validation and popularization of IPM technology for Cotton crop
- Pest monitoring and survey

5. Publication (best five)

1. **Anoop Kumar**, N N Singh and V K Mishra (2016) Safety of Insecticides to egg parasitoid *Trichogramma chilonis* Ishii. Indian Journal of Entomology. 78(1) 82-88 DOI [10.5958/0974-8172.2016.00016.X](https://doi.org/10.5958/0974-8172.2016.00016.X)
2. R. S. Pradhan, N. N. Singh and **Anoop Kumar** (2013). Developmental period and preying capacity of different larval instars of *Chrysoperla carnea* (Stephens) BIOINFOLET 10 (3A) 328-329
3. **Anoop Kumar** and N.N. Singh (2013). Safety evaluation of insecticide's field doses on adult wasp of *Trichogramma chilonis* Ishii. BIOINFOLET 10(4B): 1254-1256.
4. **Anoop Kumar** and Ram Singh, (2012). Effect of biopesticides and chemical insecticides on aphid population, bee visits and yield of mustard. Annals of Plant Protection Science, 20 (1): 206-208.
5. **Anoop Kumar**, Ram Singh, Awaneesh Chandra, and R A Verma (2010). Pesticides effects on visit and forage activities of honeybee in mustard (*Brassica juncea*) Current Advances in Agricultural Sciences 2:131-132.

6. Awards and Fellowships

- Vice-chancellor Silver medal in B. Sc. (Ag)
- Book prize in M. Sc. (Ag)
- Department topper fellowship in M. Sc. (Ag)
- ICAR- Senior Research Fellowship for Ph D.
- DST –INSPIRE Fellowship

Projects:

S No.	Project title	PI and Co-PI	Achievements
1	Development, validation and promotion of cotton IPM in cotton based cropping system with major emphasis on whitefly in kinnow growing region. April 2017 to March 2021	PI- Anoop Kumar , Co-PI- Ajanta Birah, R K Tanwar, MK Khokhar and SP Singh; Collaborator: CICR RS Sirsa- Dr D Monga and Dr Rishi Kumar and PAU RRS Abohar Dr Jagdeesh Arora	IPM validation resulted in >90 % reduction in pesticides application (ai), with increase in benefit-cost ratio (2.44 in IPM and 1.73 in FP) with conservation of natural enemies compared to farmers

			practice
2	<p>DBT funded twinning project ‘Engineering entomopathogenic fungi <i>Beauveria bassiana</i> and <i>Metarhizium anisopliae</i> for the expression of heterologous insect specific toxins’.</p> <p>April 2017 to March 2021</p>	<p>Dr Gurvinder Kaur Saini- PI and Coordinator, IIT Guwahati</p> <p>Anoop Kumar PI- CC NCIPM</p> <p>Dr Sachin S Suroshe Co-PI CC IARI, New Delhi</p>	<p>Protein samples received from IIT Guwahati were tested against larvae of <i>Spodoptera litura</i>. So far three trial have been conducted with significant mortality (100%) of <i>S. litura</i> larvae.</p>
3	<p>Population dynamics of whitefly and its natural enemies: A study in farmers field in North Zone</p> <p>June 2018 to March 2019</p>	<p>Dr Anoop Kumar PI</p> <p>Dr M K Khokhar Co-PI</p>	<p>Population of whitefly was recorded below ETL at most of the fields except few fields in Fazilka, Muktsar and Sirsa during second fortnight of July.</p>
4	<p>Development, validation and promotion of cotton IPM in cotton based cropping system with major emphasis on pink boll worm</p> <p>June 2018 to March 2021</p>	<p>PI: Dr Ajanta Birah</p> <p>Co-PI: Dr Anoop Kumar, Dr M K Khokhar</p> <p>Dr Ajay Mitkari CC- Co-PI KVK Jalna</p> <p>Dr S Sonune CC- Co-PI KVK Jalna</p> <p>Dr Lakhan Singh, CC:Co-PI, ICAR- ATARI, Pune</p>	<p>Baseline information collected and IPM implementation started in 60 acre area in Jalna district Maharashtra</p>