

BRIEF BIODATA



1. **Name** : **DR. KUSAL ROY**
2. Designation : Assistant Professor (Stage –II)
3. Academic qualifications : M. Sc. in Agril. Entomology; Ph.D. in Agril. Entomology, Qualified ICAR NET in Agril. Entomology in 2001.
4. Experience of Research, Teaching & Extension : >10 Years (served > 9 years in AICRP on Nematodes in BCKV as an Assistant Nematologist)
5. Field of specialization : Nematology (Nematode Taxonomy, Biodiversity, Histopathology, Plant –Nematode Interaction, Integrated Nematode Disease Management, Bioefficacy of Nematicides), Bioefficacy of Insecticides, Insect Population Dynamics & IPM
6. Official and Corresponding address : Department of Agricultural Entomology, F./ Agriculture, Bidhan Chandra Krishi Viswavidyalaya (BCKV), Mohanpur - 741 252, Dist. Nadia, West Bengal, India
Email: roynema@gmail.com, roy_ento@rediffmail.com
Voice: +91 9433307588
7. Award/Fellowship /Recognition : National Merit Scholarship; University Merit Scholarship; Senior Research Fellowship of ICAR Network Project from 11.4.2011 to 15.3.2005.
Young Scientist Award-2013 by CWSS (<http://cwssbckv.org/>) on 6th November, 2014.
8. No. of publications : Book-3; Chapter of Book-3; Workshop Proceedings-2; Training Manual–2; Practical Manual-1; Popular Article-6; Scientific Articles including Conference Abstracts/ Extended Summaries-71.
9. Student(s) guided : Ph. D – 1 (Thesis Submitted) +2 (Working) ; M.Sc. (Ag.) - 5 (Awarded) + 2 (Working)
10. Seminar /Symposium/ Workshop/Conference/ Training attended : Seminar- 9 (National), 4 (International), Workshop -5, Conference-5, Training Programme - 5
11. Acted as an Academic Expert : West Bengal Council of Higher Secondary Examination, UBKV (WB), OUAT (Odisha), BAU (Kanke, Ranchi, Jharkhand), Andhra University (Vishakhapatnam, AP), RKMVU (WB)
12. Ad-hoc projects (Completed/ongoing) : 6 as PI (Sumitomo, FMC, Adama, GSP, New Agro Life Science); CO- PI in 2 projects (Corporate; RKVY “e-pest surveillance”)
13. Teaching Activities : **UG Courses:**
Introductory Nematology- ENT-351 (1 +1),
Non-Insect Pests and their Management- ENT-453 (0+1)
PG Courses:
Agricultural Nematology- ENT-510 (2+1) ; Nematode Taxonomy- ENT-522 (1+1) ;
Advanced Nematological Techniques- ENT-610 (0+2),
Advanced Nematode Management- ENT-612 (2+1),
Advanced Nematode Taxonomy -ENT-613 (1+1)

14. Important activities and Significant Achievements
- : ξ **Weather based prediction model** to determine the outbreaks of yellow stem borer, *Scirpophaga incertulas* (Walk.) in rice in West Bengal.
 - ξ **Community study of major plant parasitic nematodes** associated with vegetable crops in Eastern and North Eastern India.
 - ξ Surveyed several crops in India for studying the **diversity of phyto-nematodes**.
 - ξ Effect of abiotic factors on the population dynamics of phyto-nematodes.
 - ξ Developed tactics to manage nematode pest's of pointed gourd, cucumber, cowpea, rice, jute, tomato, tuberose and banana.
 - ξ Studied **histo-pathological changes in tuberose and gladiolus** due to *Aphelenchoides besseyi*, and in rice root due to *Meloidogyne graminicola*.
 - ξ **Incidence of *Aphelenchoides besseyi* on onion and gladiolus and *Meloidogyne javanica* on *Swertia chirayita*** was reported for the **first time form India**.
 - ξ **Assessment of avoidable yield losses** due to *Rotylenchulus reniformis* and *Meloidogyne incognita* infestation on vegetable and pulse crops.
 - ξ Identification of **seven new weed hosts of reniform nematode, *Rotylenchulus reniformis*** from West Bengal.
 - ξ **Screened** a large number of **varieties/germplasms** of various crops (rice, jute, okra, brinjal, tomato, chilli, mung, cowpea, chick pea and sunflower) for identification of **sources of resistance** against phytonematodes and insects.
 - ξ Contributed information for the preparation of ***Economically Important Plant Parasitic Nematode Distribution – Atlas***.
 - ξ Generated data on the level of efficacy of different insecticides & nematicides (old and new molecules), **standardized the doses of new insecticides & nematicides** molecules in different agricultural crops.
15. Member, Academic Societies
- : Nematological Society of India; Crop and Weed Science Society; Indian Meteorological Society
16. Additional Responsibility
- : **Editor, Journal of Crop and Weed**
Editorial Board Member- International Journal of Research in Agriculture and Forestry; Journal of Plant and Pest Science (Australia); Indian Journal of Plant and Soil
Reviewer - Journal of Applied Biology and Biotechnology