

SCIENTIST PROFILE

1. Name & Designation : **Dr. S D MOHAPATRA**
Principal Scientist (Entomology)
2. Date of Birth : 10th August 1973
3. E mail: : sdmento73@gmail.com
4. Date of Joining in ICAR : 1st November 2008
5. Date of Joining in Present Post : 1st November 2014
6. Qualification (Highest) : Ph.D. in Agricultural Entomology
7. Area of Specialization/
Research interest : Insect Ecology, IRM, Molecular Entomology
8. Post Doctoral Research Experience/ Training
 - Training programme on '**Ecological management of rodents, insects and weeds in rice agro-ecosystems**' at International Rice Research Institute, Los Banos, Manila, Philippines from 25 September to 6 October 2017
 - **Research Associate** in the project '*Development of biodiversity inventories, pest diagnostics and bio-informatic tools for insects associated with major agricultural crops*' Indian Agricultural Research Institute, New Delhi, India during 2002-2003.
 - **Research Associate** in the project '*New approaches to integrated pest management in rainfed rice based production system*' ICAR-National Rice Research Institute, Cuttack, India during 2001-2002.
9. Significant Contribution including products and patents (Five bullets):
 - Alternate Energy Light Trap developed and patent filed with Indian Patent File No 341/KOL/2014 dated. 18th March 2014
 - Developed NRRI Mobile App "riceXpert"
 - Isolated, identified three cellulolytic bacteria from midgut of rice stem borer.
10. **Awards/ Honours**
 - Fellow of Entomological Society of India, New Delhi
 - Received certificate of Appreciation for delivering seminar on NRRI 'riceXpert' App: A Digital tool for Smart Rice Farming' at IRRI, Philippines on October 4, 2017
 - Best paper award in National Symposium on 'Frontier Areas of Entomological Research' held at Division of Entomology, I.A.R.I., New Delhi during November 5-7, 2003
 - Reviewer of *Indian Journal of Agricultural Sciences, Journal of Agrometeorology, Indian Journal of Plant Protection, Oryza, Journal of Root Crops*



11. Summer School Organized

- ICAR-Sponsored Summer School on *New Horizons in Biotic Stress Management in Rice under Changing Climate Scenario* organized at CRRI, Cuttack during 10-30 September, 2013 (Co-Course Director)

12. Research Projects

- (i) **Institute Project:** Bio-ecology of rice insect pests and diseases for climate smart protection strategies
- (ii) **External funded Project**
 - NRRI-NCIPM Collaborative Project on **Validation and promotion of IPM in rice based cropping system** from July 2017 - Mar 2020; **20.70 lakhs**
 - Consultancy Research on Multilocation monitoring of Rynaxypyr™ 20SC against *Scirpophaga incertulas* in rice and Rice Hopper Susceptibility Survey in India for DPX-RAB55 106SC against *Nilaparvata lugens* & *Sogatella furcifera* funded by M/s DuPont India Ltd., Gurgaon from Nov 2015 – Oct 2017; **46.03776 lakhs**
 - ISRO-SAC Funded Project on Forewarning of major crop pests on spatial scale for their integrated management from June 2016 – March 2019; **18.95 lakhs**

13. Research Publications

1. Kumar U, Berliner J, Adak T, Rath PC, Dey A, Pokhare SS, Jambhulkar NN, Kumar A and **Mohapatra SD**. 2017 Non-target effect of long-term application of chlorpyrifos on soil microbes, nematodes and its persistence under sub-tropical rice-rice cropping system. *Ecotoxicology and Environmental Safety* 135: 225-235
2. Mahapatra B, Adak T, Patil NKB, Pandi GGP, Gowda GB, Yadav MK, **Mohapatra SD**, Rath PC, Munda S and Jena M 2017 Effect of abiotic factors on degradation of imidacloprid. *Bulletin of Environmental Contamination and Toxicology* 99(4): 475-480
3. **Mohapatra SD**, Aswal JS and Kumar S 2012. Relative efficacy of newer acaricide against European red mite, *Panonychus ulmi* in apple. *Indian Journal of Plant Protection* 40 (2): 109-111
4. **Mohapatra SD** and Chattopadhyay C 2012 Perception of constraints for pigeonpea production in India. *Indian Journal of Plant Protection* 40 (3): 171-174
5. **Mohapatra SD**, Rath PC and Jena M 2016 Sustainable Management of Insect Pests and Diseases in Rice in Rainfed Low Land Ecosystem: A Case Study *Indian Journal of Plant Protection* 44(2):
6. Chattopadhyay C and **Mohapatra SD** 2015 Perception of constraints in chickpea production in India. *Indian Journal of Agricultural Sciences* 85 (2): 287-289

7. **Mohapatra SD**, Mishra PN and Singh^h MP 2013. Management of white grub, *Holotrichia longipennis* Blanch through post-sown soil application of insecticides in upland rice. *Oryza* 50 (4): 419-421
8. **Mohapatra SD**, Jena M, Dash SK and Prakash A 2013. Practical Manual on Biotic Stress Management in Rice. ICAR sponsored summer school on *New horizons in biotic Stress Management in Rice under Changing Climate Scenario* from September 10-30, 2013. Central Rice Research Institute, Cuttack. p.63
9. **Mohapatra SD**, Aswal, J S and Kumar, S. 2012. Relative efficacy of newer acaricide against European red mite, *Panonychus ulmi* in apple. *Indian Journal of Plant Protection* 40 (2): 109-111
10. **Mohapatra SD** and Chattopadhyay C 2012 Perception of constraints for pigeonpea production in India. *Indian Journal of Plant Protection* 40 (3): 171-174
11. Chattopadhyay C and **Mohapatra SD** 2015 Perception of constraints in chickpea production in India. *Indian Journal of Agricultural Sciences* 85 (2): 287-289
12. **Mohapatra SD** 2008. Participatory appraisal for bio-intensive IPM research in Basmati rice: A case study. *Oryza* 45(2): 175-177
13. **Mohapatra SD** and Srivastava CP 2008. Toxicity of biorational insecticides against spotted pod borer, *Maruca vitrata* (Geyer) in short duration pigeon pea. *Indian Journal of Entomology* 70(1): 61-63
14. Dash SK, Sahoo KK, Chattopadhyay K, Behera L, Pradhan SK, Molla KA and **Mohapatra SD** 2016 *High Beta-Carotene Rice in Asia: Techniques and Implications* In: Biofortification of Food Crops. Springer (India) Pvt. Ltd. p. 359-374 ISBN 978-81-322-2714-4 ISBN 978-81-322-2716-8 (eBook) DOI 10.1007/978-81-322-2716-8
15. Singh SK, **Mohapatra SD**, and Duraimurugan P 2016 Pulses In: *Mealybugs and their Management in Agricultural and Horticultural crops*. Mani, C. Shivaraju (eds.), DOI 10.1007/978-81-322-2677-2_24
16. **Mohapatra SD** 2014 Rice IPM – Biodiversity Implication In: Compilation of Invited Lectures delivered in National Symposium on Entomology as a Science and IPM as a Technology – the way forward November 14-15, 2014 at College of Horticulture & Forestry, CAU, Pasighat, Arunachal Pradesh p. 333-346
17. **Mohapatra SD**, Jena M, Lenka S, Panda BB, Shahid, M and Nayak, AK 2014. Climate change and its impact on rice insect pests. In: Training Manual on ICAR sponsored Winter School on Advanced Techniques for Assessment of Soil health, GHG Emissions and carbon sequestration in rice under changing climatic scenario and mitigation strategies organized at CRRI, Cuttack during 11th November to 1st December 2014. P. 213-218