

Curriculum Vitae

Dr NAYEM HASSAN

Summary

I'm an enthusiastic and hard working individual. I can work effectively alone or as part of a team, benefiting my colleagues with my professionalism and dedication to completing tasks to the best of my abilities. I'm success driven and enjoy making a difference. Overall my goals are to contribute to my employer's profitability through my determination to succeed in my working environment. Versatile and learns new tasks/skills quickly.



Personal Details:

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Expertise:

- Isolation, identification and field test of semiochemicals or pheromones
- Analytical chemistry, including gas chromatography (GC), high performance liquid chromatography (HPLC), mass spectrometry (MS) and GC-MS
- Electrophysiological recording from insect antennae, coupled to gas chromatography for detection of insect attractants (GC-EAG)
- Laboratory bioassay of attractants, repellents and metabolic inhibitors
- Insecticide toxicology-residue analyses, identification and quantification
- Field trapping trials of insect behaviour modifying pheromones

Work Experience:

- Jan '02- Sep'02: Syngenta Bangladesh Ltd.
Pheromone Entomologist
Responsibilities included testing of pheromone and semiochemicals related products in commercially important crops. To conduct mass trapping trail and evaluation of various releases rate of different formulations. To analyses the field data and scientific report writing.
- Sep 07- to date: Russell IPM Ltd
Senior Scientific Officer,
Research and Development.

Key Skills:

- Teamwork: Organized a get-together for alumni of the college during undergraduate studies. Work involved distributing responsibilities among group members, setting deadlines, and arranging meetings to monitor the progress of the team. My responsibilities were to manage finance, arranging venue for the event, hospitality management and negotiating the price.
- Working Under Pressure: Worked under pressure in Natural Resources Institute, Syngenta Bangladesh Ltd., where achieving targets in limited time was important.
- Meeting deadlines: Successfully met deadlines of submitting coursework during bachelors, masters and Doctoral degree level as well as while working at Syngenta Bangladesh Ltd. and Natural Resources Institute, the University of Greenwich

Collecting and Analysing Data:	Efficiently collected information from different journals and other periodicals towards writing of report of thesis in postgraduate and undergraduate programme.
Presentation skills:	Presented project work during degree programme on different course topics as well as an oral presentation at International Crop Research Institute for the Semi-Arid Topic (ICRISAT, India) and Prime Mister Initiative for Higher Education, 2006, UK.
Problem solving:	Solved reaction assembly problems on my own by arranging reaction in series during identification of the new pheromone component for <i>Maruca vitrata</i> , during the course of PhD.
Other:	Getting along with the peers in the same field: Worked with Scientist of Agriculture Heath and Environment Group (Former Chemical Ecology) and laboratory technicians towards the completion of Doctoral project.

Academic History:

Sep'02 - March '07:	University of Greenwich at Medway PhD. (Chemical Ecology)
Project:	Re-Investigation of the female sex pheromone of the legume pod borer, <i>Maruca vitrata</i> (Lepidoptera: Crambidae) The main pheromone collection technique was used Volatile collection by Air Entrainment, Solid phase Micro Extraction (SPME) and ovipositor washing by solvent extraction. The major analytical techniques used included Gas Chromatography, Mass-spectrometry. The principle bioassays were used Electrophysiological bioassay, Wind-tunnel Bioassay and Field trapping trial of pheromone.
March '2000- April02	University of BSMR Agriculture University, Bangladesh MSc in Entomology First Class, CGPA 3.81 out of 4
Project:	Evaluation of some selected insecticides for tolerance against the ladybird beetle, <i>Micraspis discolor</i> (F).
Jan '95-Sep '99	Bangladesh Agricultural University BSc in Agriculture, First Class

Further Information:

Outstanding Achievements:

- Achieved Natural Resources International Research (**nr international**) grants or Travel fellowship, 2005.
- Achieved the Higher Education Funding Council for England (**HEFCE**) grant, Funding for PhD Research
- Successfully completed MSc in Entomology, 2002 with percentile score of 95.25% of the total mark. (GPA 3.81 out of 4) from BSMR Agriculture University, Bangladesh

Relevant training

Competent user of Microsoft Office package.

Training on Information Technology Level-2 (Microsoft Access, Excel and Web page design), the University of Greenwich, 2005

Training on Advance network and internet BSMR Agriculture University, Bangladesh, 2001

Training on Data analyses programmes MSTAT, SPSS, Excel and IRRISTAT, BSMR Agriculture University, Bangladesh, 2001

Research Presentation

Identification of the novel pheromone mechanism of the legume pod borer, *Maruca vitrata* at NRI, 2005(*Presenting author)

Identification of the novel pheromone mechanism of the legume pod borer, *Maruca vitrata* at ICRISAT, India, 2006 (*Presenting author)

Member of Scientific Professional society:

Member of International Society of Chemical Ecology.

Member of International Organization for Biological Control (IOBC) of Noxious Animals and Plants.

Scientific publications:

Hassan, M. N. and Alzaidi, S. (2009). *Tuta absoluta* - A serious pest advancing in the Mediterranean region - Role of pheromones in management strategies. International Pest Control, 50 (2) 85-87

Hassan, M. N. and Alzaidi, S. (2009). Xlure-MST- The Multi-species pheromone trap for major stored products insects. Bulletin of the Conference on IOBC/WPRS Working Group on "Integrated Protection of Stored Products", Molise, Campobasso, Italy.

Hassan, M. N. and Alzaidi, S. (2008). Pheromone use in Food Industry. International Pest Control, 50 (2) 113-116.

Hassan, M. N. and Alzaidi, S. (2008). Biorational pest control in protected cultivation. International Pest Control, 50 (4) 224-227.

Hassan, M. N., Islam, M. N., Kundu, R. and Mannan, M. A. (2001). Evaluation of some selected insecticides for tolerance against the ladybird beetle, *Micraspis discolor* (F). Bangladesh.J.entomol.11:1-2, 75-87.

Hassan, M. N., Hall, D. R., Downham, M. (2009). Identification of novel pheromone mechanism of the legume pod borer, *Maruca vitrata* Semiochemicals without Borders", a joint conference of Working Groups "Pheromones and other semiochemicals in integrated production" IOBC WPRS and "Selective Control Methods" of IOBC EPRS, Budapest, Hungary. (Submitted)

References:

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