

CURRICULUM VITAE

PERSONAL DATA

Name: DR. MUNAWAR FAZAL

Father's Name: Dr. Syed Fazal uddin

Nationality: Indian

Permanent Address: A-24, Road No. -3, Sector-3, Haroon Nagar Colony, Anisabad Patna, Bihar
Mobile No: 09334973827

Correspondence Address:

Department of Botany
College of Commerce, Arts & Science, Patna-800020 Bihar
Mobile No: 09334973827
08340316159
09661546994

E mail:

munawar_fazal@reddiffmail.com ,
writesmf@gmail.com

PRESENT POSITION

Associate Professor of Botany, College of Commerce, Arts & Science, Patna (Bihar),
A constituent Unit of PATLIPUTRA UNIVERSITY, PATNA Since July 2015

ACADEMIC PROFILE

*ALIGARH MUSLIM UNIVERSITY, ALIGARH, UTTAR PRADESH, INDIA

Year	Degree	Division	University	Subject Offered
1993	Ph.D.	Awarded	A.M.U*	Botany (Pl Pathology) Nematology
1989	M.Phil.	Awarded	A.M.U	Botany (Pl Pathology) Nematology
1987	M.Sc.	I st	A.M.U	Botany (Pl Pathology) Nematology
1985	B.Sc. (Hons)	I st	A.M.U	Botany

POST-DOCTORAL TRAINING

1.Plant Pathology/Plant Nematology at Aligarh Muslim University, Aligarh, India, sponsored by Council of Scientific and Industrial Research , New Delhi From July 1994-1997

2.Agricultural Biotechnology (Arbuscular Mycorrhiza & Orchid Mycorrhiza) at University Putra Malaysia, Sedang, Malaysia, Sponsored by University Putra Malaysia From Aug 1997-April 2000.

THESIS

Ph.D. Studies on root-knot and reniform nematodes associated with black gram

M.Phil. Studies on plant parasitic nematodes associated with important pulse crops

M.Sc. Evaluation of Nema-Toxicity of selected plants

SCHOLARSHIP

Junior Research Fellowship
Senior Research Fellowship
Research Associateship (CSIR, New Delhi)
Post-Doctoral Fellowship (UPM, Malaysia)

HONOURS AND AWARDS

- ❖ Awarded “Anugerah Reka Cipta dan Penyelidikan SUIL PENGHARGAAN” by University Putra Malaysia (April -2000).

ORIENTATION/ REFRESHER/PROFESSIONAL DEVELOPMENT PROGRAMME

Academic Staff College, Jamia Millia Islamia, New Delhi (2005), Ist Feb to Ist March-**Orientation**

Academic Staff College, Aligarh Muslim University, Aligarh (2010)-19th July to 10th August-**Refresher**

Academic Staff College, Maulana Azad National Urdu University, Hyderabad (2010)-13th to 17th Dec-**PDP ICT-Higher Education**

Advance Techniques for exploiting the ENB Complexes for Bio-Management of Pests of Crops organized by **Div of Nematology, IARI, New Delhi 10-19 Feb., 2011**

Academic Staff College, Patna University, Patna Bihar (2011)-3rd to 23rd September-**Refresher**

PUBLICATIONS

Articles/Chapter	05
International Journal	15
National Journal	28
Abstract	11
Communicated	04

RESEARCH TRAINING

- Diseases of Pulse and oil seed crops and their management, organized by the Department of Nematology, Rajasthan College of Agriculture, Udaipur, Rajasthan, India, Sponsored by ICAR, New Delhi
- Trained in general methods of tissue culture techniques at National Botanical research Institute, Lucknow, India, sponsored by CSIR, New Delhi.
- Trained in General Methods of Arbuscular and Orchid Mycorrhizal Techniques at University Putra Malaysia, Serdang, Malaysia

RESEARCH EXPERIENCE AFTER PH. D

More than 22 years	1. Plant Pathology
	2. Plant Nematology
	3. Agricultural Biotechnology (AM and Orchid Mycorrhiza)
	4. Tissue Culture
	5. Soil Science and Microbiology
	6. Agriculture (Crop Science)

RESEARCH GUIDE / PH.D. SUPERVISOR

- Four students registered for Ph. D Programme
- One student completed her Ph.D Programme and was awarded the degree

MEMBER OF PROFESSIONAL/ LEARNED SOCIETY

- Life Member of Trends in Biosciences Journal
- Life Member of Advances in Life Sciences Journal

WORK EXPERIANCE

1. Teaching:

- Associate Professor of Botany, College of Commerce, Arts & Science, Patna, Bihar (A constituent unit of Magadh University from February 1, 2016 to
- Associate Professor of Botany, S. Sinha College, Aurangabad, Bihar (A constituent unit of Magadh University from July 5, 2015 to January 31, 2016
- Associate Professor of Botany, S. Sinha College, Aurangabad, Bihar (A constituent unit of Magadh University from July 5, 2012 to July 4, 2015
- Reader in Botany, S. Sinha College, Aurangabad, Bihar (A constituent unit of Magadh University from July 5, 2012 to July 4, 2015.
- Senior Assistant Professor in Botany, S. Sinha College, Aurangabad, Bihar (A constituent unit of Magadh University from July 5, 2007 to July 4, 2012
- Assistant Professor in Botany, S Sinha College, Aurangabad, Bihar (A constituent unit of Magadh University) from July 5, 2003 to July 4, 2007.
- Faculty Member, Expression Coaching Aracade, Patna-November, 2000-June-2003
- Associated with Laboratory Courses of Under graduate and Master Students in soil Microbiology—16th August 1997-July 2000 at University Putra Malaysia, Serdang, Malaysia.
- Supervised Bachelor and Master Students for their respective Final year thesis from August -1997-July 2000 at University Putra Malaysia, Serdang, Malaysia.
- Associated with Laboratory Courses of Under graduate and Master Students in Botany from July-1994-August 14th 1997 at Aligarh Muslim University, Aligarh, UP, India.
- Associated with Laboratory Courses of Post graduate Students Majoring in Plant Pathology and Nematology from July-1994-August 14th 1997 at Department of Botany ,Aligarh Muslim University, Aligarh, UP, India
- Associated with Master Students for Final Year Thesis Majoring in Plant Pathology and Nematology from July 1994-14th August –1997 at Department of Botany, Aligarh Muslim University, Aligarh, UP.

2. Industrial Experience

- Worked as Researcher cum Production Manager at Malaysian Agri HiTech Sarawak Sdn, Bhd, Block C, Taman Sri Sarawak, Jalan Tunku Abdul Rahman, 93100 Kuching, Sarawak ,Malaysia. The company produced and marketed Arbuscular Mycorrhiza (a beneficial fungus) inoculant for Commercial application.

Major area of Research interest

- Plant Pathology
- Plant Nematology (Pathogenicity, Bio-control, Integrated Management)

- Biotechnology (AM and Orchid Mycorrhiza)
- Tissue Culture
- Soil Microbiology
- Crop Science
- Tissue Culture

Teaching Interest

- Plant Pathology
- Plant Nematology
- Mycology
- Botany
- Microbiology
- Plant Biotechnology

Undergraduate Thesis Supervision

- Co-Supervised one Bachelor Student At University Putra Malaysia, Serdang, Malaysia

Administrative Experience (College)

- ❖ **At College of Commerce, Arts & Science, Patna (February 1, 2016 onward)**
 - Member Admission Committee (General)-2016-2017, 2017-2018, 2018-2019
 - Member Board of Governor for RUSA
 - Member College Library Committee
 - Nodal officer for online Facilitation System for Students (OFSS)
 - Nodal officer for Student Scholarship
 - Proctor
- ❖ **At S. Sinha College, Aurangabad, Bihar (till January 31, 2016)**
 - Coordinator, Faculty of Pharmacy,
 - Coordinator, Department of Biotechnology,
 - Nodal officer,
 - Deputy Coordinator Nalanda Open University
 - In-Charge Time Table
 - In-Charge Department of Computer Application
 - In-Charge Department Of B. Pharma
 - Member Anti Ragging Committee
 - Member College Development Committee
 - Member purchase Committee
 - Member College Vocational Board
 - Member Admission Committee (Vocational)-2012-2013
 - Member Admission Committee (General and Vocational) -2013-2014, 2014-2015, 2015-2016
 - Coordinator NAAC Steering Committee
 - Bursar (Income) October, 2014 till January 2016

LIST OF PUBLICATIONS OF DR MUNAWAR FAZAL

Article/ Chapter

M FAZAL, MI KHAN and ZA SIDDIQUI 1997. Breeding for nematode resistance: A review. In : Plant Breeding Advances and in vitro Culture (eds. BA Siddiqui and SU Khan) CBS Publishers, New Deihi, 196-207.

M FAZAL, MI IMRAN, MMA RAZA and ZA SIDDIQUI 1997. Competitive interaction between *Meloidogyne incognita* and *Rotylenchulus reniformis* on green gram *Vigna radiata* L. In Frontiers in plant Science (Ed IA Khan). The Book Syndicate , Hyderabad, 553-558.

Fazal, M., Bhat, MY and Raza, MA. 2016. Mass Production of Arbuscular mycorrhiza. In Environment al Miceobiology(Ed: Ram Prasad). IK International publishing House Pvt. Ltd. New Delhi pp108-135.

Fazal, M., Bhat, MY and Raza, MA. 2016. Arbuscular mycorrhiza as Bioprotactant: A Review of the mechanism involved. In Environment al Microbiology(Ed: Ram Prasad). IK International publishing House Pvt. Ltd. New Delhi pp234-258.

Fazal, M., Bhat, MY and Raza, MA. 2017. Role of Arbuscular Mycorrhizas in Sustainable Management of Agricultural Ecosystem.(Eds: Ram Prasad and Narendra Kumar). IK International publishing House Pvt. Ltd. New Delhi pp 180-212

International

M IMRAN, **M FAZAL** and SK SEXANA 1992 Morphological response of pigeon pea cultivars to *Meloidogyne incognita*. Afro-Asian Nematol Network 1:21-24

M FAZAL, MI KHAN and ZA SIDDIQUI 1992. Effect of Pre-, Post– and simultaneous inoculations of *Rhizobium Rotylenchulus reniformis* and *Meliodogyne incognita* on lentil. Nematol. Medit. 20-27

M FAZAL, MNH SHAH, MI KHAN and ZA SIDDIQUI 1994. Evaluation of tomato cultivars for resistance to *Rotylenchulus reniformis* Ann. App. Biol. Suppl. (TAC-15) 124: 124-125

M FAZAL, MNH SHAH, MI KHAN and ZA SIDDIQUI 1994. Evaluation of tomato cultivars to root-knot nematode, *Meloidogyne incognita* Ann. App. Biol. Suppl. (TAC-15) 124: 126-127

MNH SHAH, **M FAZAL**, MI KHAN and MF AZAM 1994 Response of six mung bean accessions to *Rotylenchulus reniformis* Ann. App. Biol. Suppl. (TAC-15) 124: 80-81

MNH SHAH, **M FAZAL**, MI KHAN and MF AZAM 1994 Response of some mung bean accessions to *Meliodogyne incognita* Ann. App. Biol. Suppl. (TAC-15) 124: 80-81

M FAZAL, M IMRAN, MMA RAZA and ZA SIDDIQUI 1994 Effect of individual and combined inoculation of *Meloidogyne javanica*, *Rhizoctonia solani* and *Fusarium oxysporium* f. sp. Ciceri on chickpea. Israel J. Pl. Sci 42:207-211

M FAZAL, M.IMRAN, MMA RAZA and ZA SIDDIQUI 1994 Interaction between *Meloidogyne incognita* and *Fusarium oxysporium* f.sp.*lentis* on lentil. Nematol Medit 22:185-187.

M FAZAL, MI IMRAN, and ZA SIDDIQUI 1996. Evaluation of five nematicidrs as seed treatment for bcontrol of *Meloidogyne incognita* infecting green gram, *Vigna radiata*. Nematol., Medit 24:279-281

TA KHAN, ST KHAN, **M FAZAL** and ZA SIDDIQUI 1997 Biological control of *Meloidogyne incgnita* and *Fusarium solani* disease complex in papaya using **Paeciliomyces lilacinus** and *Tricoderma harzianum*. International Journal of

Nematology &: 127-131

MI KHAN, A HASHIM MA FAZAL and **M FAZAL** 1997. Pathogenicity studies on the seed borne phases of *Alternaria* spp. On cauliflower and cabbage Malays. App Biol. 26:87-92

M FAZAL, MY BHATT , M IMRAN and ZA SIDDIQUI 1998. A disease of black gram involving *Meloidogyne incognita* and *Rhizoctonia bataticola* Nematol Medit 26: 63-66

M FAZAL, MY BHATT , M IMRAN and ZA SIDDIQUI 1998. Efficacy of neem pesticides on protection of mung bean against *Meloidogyne incognita* J Pl dis Protec 105 (5):520-525

MY BHAT and **M FAZAL** 2011. Effect of *Aspergillus flavus* metabolites on wheat seed germination and seedling growth. Arab j Pl Path 29 (2): 139-140

M FAZAL, R KUMARI and PRIYANKA 2014. Effect of Carbofuran in the presence of farm yard manure on the management of *Rotylenchulus reniformis* Linford and Oliveira infecting blackgram *Vigna mungo* (L) Hepper. International Advanced Journal of Sciences 8:43-48

National

M FAZAL and SI HUSSAIN 1991 Evaluation of lentil cultivars against *Rotylenchulus reniformis* Linford & Oliveira, 1940. New Agriculturist 1:21-22

M FAZAL and SI HUSSAIN 1991 Studies on nematicidal effect of *Ocimum sanctum* and *Thuja orientalis*. New Agriculturist 1:111-112

M FAZAL, MR SIDDIQUI and SI HUSSAIN 1991. Pathogenic effect of *Meloidogyne incognita* (Kofoid & White, 1919) Chitwood, 1949 on lentil. Current Nematology 2: 50-52

M FAZAL and SI HUSSAIN 1991. Studies on co-habitation of *Meloidogyne incognita* and *Rotylenchulus reniformis*. Current Nematology 2:73-79

ZA SIDDIQUI, SI HUSSAIN and **M FAZAL** 1991. Response of twenty varieties of pigeon pea (*Cajanus cajan*) against *Meloidogyne Javanica*. Current Nematology 2:139-142.

SI HUSSAIN, **M FAZAL**, AH KHAN and M AKRAM 1992. Individual and concomitant effect of powdery mildew fungus (*Spaerotheca fulginea*) and root-knot nematode (*Meloidogyne incognita*) on Brinjal (*Solanum melongena* L.). Acta Botanica Indica 20:337-338.

B Khan, **M FAZAL** and ZA SIDDIQUI 1992. Morphological response to pigeon pea cultivars to *Meloidogyne incognita*. Indian J. Plant Pathol., 10:35-40

M IMRAN, SK SAXENA, **M FAZAL** and MI KHAN 1993. Effect of soil application of chopped plants materials on the population of root-knot nematode (*Meloidogyne inognita*). Indian J. Mycol. and Pl. Pathol. 23:180-182.

MR SIDDIQUI, A ANWAR and **M FAZAL** 1993. Rhizobial nodulation and growth characters of chick pea as influenced by root-knot nematode. Ann. Pl. Protect. Sci. 1:89-91.

K VASHISTH, **M FAZAL**, M IMRAN, MMA RAZA and ZA SIDDIQUI 1994. Morphological and biochemical response of black gram cultivars to *Meloidogyne incognita*. Ann. Pl.Protect. Sci., 2:13-18.

M FAZAL, ST NABI, MR SIDDIQUI and K SINGH 1994. Effect of *Meloidogyne incognita* and *Rotylenchulus reniformis* on plant growth and rhizobial nodulation of green gram. Ann. Pl.Protect. Sci., 2:19-22.

M FAZAL, MR SIDDIQUI, MI KHAN, NH SHAH and ZA SIDDIQUI. 1995 Susceptibility of some lentil cultivars to reniform nematodes, *Rotylenchulus reniformis* and their effect on peroxidase activity and protein contents. Ann. Pl.Protect. Sci., 3:41-45.

M FAZAL, MI KHAN, MY BHATT and ZA SIDDIQUI. 1995. Management of *Meloidogyne incognita* by seed treatment with chemicals in black gram. J Indian bot. Soc., 74: 349-350.

MI KHAN, M ASHAQ and **M FAZAL**. 1996. Comparitive study of the efficacy of some plant extracts and fungicides on the mycoflora of chickpea seed. Ann. Pl. Protect Sci., 4:85-87.

M FAZAL, MY BHATT and ZA SIDDIQUI 1996. Determination of threshold levels of *Meloidogyne incognita* and *Rotylenchulus reniformis* on black gram. Indian J Nematol., 26: 253-255.

MY BHATT, **M FAZAL** and Hissamuddin 2009. Effect of *Meloidogyne incognita* race-1 on the functioning of rhizobial nodules on black gram. Indian J. Nematol 39(1): 59-64

M FAZAL, MY BHATT 2009. Effect of *Meloidogyne incognita* race-1 on growth parameters and Biochemical changes in mung bean Modern J life Science 8:75-79

M ASHAQ, and **M FAZAL**. 2010 Studies on fungal seed flora of gram (*C. arietinum*) and its pathogenic effect on seedlings. Modern J life Science 9: 41-43

M IMRAN, M ASHAQ, **M FAZAL** Y BHAT. 2010. Mycoflora of black point infected, uninfected and fungicides treated seeds of wheat. Modern J life Science 9: 61-64

M FAZAL, MY BHAT and M ASHAQ. 2011. Combined application of *Paecilomyces lilacinus* and Carbosulfan for management of *Meloidogyne incognita* and *Rotylenchulus reniformis*. Ann Pl Protect. Sci 19(1): 168-173.

MY BHATT, NH SHAH, **M FAZAL** and AH WANI. 2011. Response of French bean to disease complex involving *Meloidogyne incognita* and *Rhizoctonia solani*. Indian J. Nematol. 41 (2):156-159.

MY Bhat, AH Wani and **M Fazal** 2012. Effect of *Paceliomyces lilacinus* and plant growth promoting rhizobacteria on *Meloidogyne incognita* inoculated black gram, *Vigna mungo* plants. JBiopest 5(1) :36-43

P KUMARI, **M FAZAL** and M ASHAQ. 2013. The effect of Arbuscular Mycorrhizal Fungi on the control of *Meloidogyne incognita* race-1 on *Withania somnifera*. Napier Indian Advanced Research Journal of Sciences 13:79-84.

M. FAZAL, R Kumari and Priyanka 2014. Effect of Carbofuran in the presence farm yard manure on the management of *Rotylenchulus reniformis* Linford and Oliveira infecting black gram *Vigna mungo* (L.) Hepper. International Advanced Journal of Science 8: 43-48pp (ISSN-23219181)

M FAZAL, R KUMARI and MY SHAH. 2016. Integrated management of *Rotylenchulus reniformis* by neem seed powder and *Paecilomyces lilacinus*. Advances in Life Sciences 5(16):5860-5863

M FAZAL, R KUMARI and C KUMARI. 2020. Interaction of Arbuscular Mycorrhizal Fungi and Reniform Nematode on chilli. Trends in Biosciences 13: 592-597

M FAZAL, R KUMARI and C KUMARI. 2020. Efficacy of microbial agents and Botanical against *Rotylenchulus reniformis* Linford & Oliviera infecting Pigeon pea, *Cajanus cajan* (L.) Millsp. Trends in Biosciences 13: 631-635

M FAZAL, MY BHATT and ZA SIDDIQUI. Response of chickpea cultivars to root-knot and reniform nematodes. Ann Pl. Protect, Sci (In Press)

M FAZAL, MY BHATT and ZA SIDDIQUI. Susceptibility of pigeon pea germ plasms to root-knot nematode Ann Pl. Protect, Sci (In Press)

Communicated

NH SHAH MY BHAT AND **M FAZAL** Effect of different fungal filtrates on the root-knot development and plant growth of mung bean (*Vigna radiata* L.) Wilczek. Bio control (Springer) (Communicated)

MY BHAT, NH SHAH AND **M FAZAL**. Comparative efficacy of three chemical products on the root-knot development and plant growth of green gram, (*Vigna radiata L.*) Nematologia Mediterranea (Communicated)

MY BHAT, **M FAZAL**, HISSAMUDDIN and NA BHAT. Formulations of *Paecilomyces lilacinus* on selected Agro waste materials and related effects on *Meloidogyne incognita* on mungbean, *Vigna radiata*. J. BIOLOGICAL CONTROL USA (Communicated)

N SHAH, MY BHAT and **M FAZAL** Physio-morphological response of potted bean (*Phaseolus vulgaris L.*) to disease complexes involving *Meloidogyne incognita* and *Rhizoctonia solani*. Communicated. Isl j.pl.science

In Proceedings

M FAZAL, M IMRAN and ZA SIDDIQUI 1993. Morphological response to pigeon pea cultivars to *Meloidogyne incognita*. Pro. 80th Session, Indian Science Congress, Goa, India, pp172

ST CHANDEL, **M FAZAL** and ZA SIDDIQUI 1993. Morphological and Biochemical responses of pigeon pea cultivars/accessions against *Meloidogyne incognita*. National Symp. Prospects and problems of Biotechnology, Bioved Research Society, Allahabad, India pp14

M FAZAL, NH SHAH and AR MALIK 1993. Peroxidase and protein changes and their role in the resistance and susceptibility of lentil cultivars. National Symp. Prospects and problems of Biotechnology, Bioved Research Society, Allahabad, India pp14

M FAZAL, M IMRAN, MMA RAZA and ZA SIDDIQUI 1994. Effect of individuals and combined inoculation of *Meloidogyne javanica*, *Rhizoctonia solani* and *Fusarium oxysporium* f.sp. *ciceri* on chick pea Symp. Frontiers Plant Sci., Hyderabad, India pp160-161

M FAZAL, M IMRAN, MMA RAZA and ZA SIDDIQUI 1994. Competitive interaction between *Meloidogyne incognita* and *Rotylenchulus reniformis* on green gram, *Vigna radiata*. Frontiers Plant Sci., Hyderabad, India pp161

MY BHATT, ZA SIDDIQUI, HISAMUDDIN and **M FAZAL** 1996. Morphological and biochemical responses of pigeon pea cultivars to *Meloidogyne incognita* race-1 and *Rotylenchulus reniformis*. 19th Bot conf of the IBS pp12.

MY BHATT, **M FAZAL** and ZA SIDDIQUI 1996. Combined application of *Paecilomyces lilacinus* and Furdan for the management of *Meloidogyne incognita* and *Rotylenchulus reniformis*. 19th Bot conf of the IBS pp13.

M FAZAL, MY BHATT, HISAMUDDIN and ZA SIDDIQUI 1996. Formulation of *Paecilomyces lilacinus* and selected agro waste materials and its related effects on *Meloidogyne incognita* and *Rotylenchulus reniformis* on mung bean *Vigna radiata* Proc. National Academy of Sciences. 66th Annual Meeting.

MY BHATT, **M FAZAL**, HISAMUDDIN and ZA SIDDIQUI 1997. Efficacy of three neem products on the protection of T-44 mung bean against *Meloidogyne incognita* race-1. Pro 84th Session, Indian science Congress, New Delhi, pp19

MY BHATT, HISAMUDDIN and **M FAZAL** 1998 Combined application of *Paecilomyces lilacinus* and oil cakes for the protection of chick pea against *Meloidogyne incognita*. 3rd ISAAN, April 16-19, Coimbatore pp94

MV RINI, MI KHAN, **M FAZAL** and A HASHIM 2000. Isolation of rhizosphere fungal flora of mature oil palm from the field and their antagonistic activity against *Ganoderma boninense* in vitro. IN SOILS. Soil Science Conf. Malaysia, Johar, Malaysia, 18-20 April, pp159-162.

MY BHATT, **M FAZAL**, AH WANI and AH MUNSHI 2009. evaluation of Agro waste materials for the growth of nematode antagonistic fungus *Paecilomyces lilacinus* and related effect on *Meloidogyne incognita* on mung bean *Vigna radiata* 5th international Conference on Biopesticides: Stakeholders Prospective 26-30 April New Delhi. Pp 91-92

M FAZAL, BY BHATT and M ASHIQ 2010. Combined application of *Paecilomyces lilacinus* and Posse for the

Management of *Meloidogyne incognita* and *Rotylenchulus reniformis*. Indo-Italian workshop on Bacteria and Fungi for Environmental Susceptibility. Nov 29,30 & Dec 01 2010, Amity University, Noida, UP

R. KUMARI, C KUMARI and M FAZAL 2016. Effect of integration of *Pseudomonas fluorescens* and *Pochonia chlamydomonas* on the management of *Rotylenchulus reniformis* infesting blackgram. National Seminar on “Advances in Plant Science Frontier: Development and Environment” (APSF-2016) Nov 26-27 2016, Dept. of Botany, Gandhi Faiz-e-Aam College, Shahjahanpur, U.P. Pp18-19

C KUMARI, R KUMARI and M. FAZAL 2016. Effects Of Arbuscular Mycorrhizal Fungi, Antagonistic Fungi and Organic Fertilizers on the management of *Meloidogyne incognita* on lentil. National Seminar on “Advances in Plant Science Frontier: Development and Environment” (APSF-2016) Nov 26-27 2016, Dept. of Botany, Gandhi Faiz-e-Aam College, Shahjahanpur, U.P. Pp44-45

Conference and Seminar attended

1993

- ✓ Indian Science Congress 80th Session Goa, India
- ✓ National Symposium on the prospects and problems of Biotechnology, Allahabad, India

1994

- ✓ National Symposium on Frontier in Plant Sciences Research, Hyderabad, India

1996

- ✓ Indian Botanical Society, 19th Botanical Conference, Hardwar, India
- ✓ National Academy of Sciences, 66th Annual Meeting

1997

- ✓ Indian Science Congress 82th Session, New Delhi, India
- ✓ Rain Fed Rice-Chickpea Cropping System to increase productivity for high Baring tract of Bangladesh. University Putra Malaysia, Serdang, Malaysia

1998

- ✓ Seminar on “ Organic Farming and Utilization of Mycorrhiza”, Jabatan Pertanian (Agriculture Department), Head Quarter, Wisma Tani, Kuala Lumpur, 10th January. Invited Lecture by Prof Dr. Azizah Hashim, Dept of Land Management, UPM
- ✓ Seminar on “Sustainable Agriculture and Draz-M (An Arbuscular Mycorrhizal Inoculant) Kompleks Pertanian, Rambu, Negri Sembilan, Malaysia, 20th April. Invited Lecture by Prof Dr. Azizah Hashim, Dept of Land Management, UPM
- ✓ Seminar On “The Benefits of Draz-M (An Arbuscular Mycorrhizal Inoculant) Jabatan Pertanian Negri, Malaysia, 15th Invited Lecture by Prof Dr. Azizah Hashim, Dept of Land Management, UPM.
- ✓ International Symposium on Afro-Asian Society of Nematologist, Coimbatore, India.

1999

- ✓ Symposium on Biological Control in Tropics: Towards efficient biodiversity and bioresource management for effective biological control. Malaysian Agriculture Research and Development (MARDI), Serdang, Malaysia
- ✓ 3rd UNESCO National Workshop on Promotion of Microbiology in Malaysia, University Kebangsaan Malaysia (UKM), Bangi, Malaysia
- ✓ Biological Control of Plant Pathogens: Harnessing the richness of Microbial Diversity, Universiti Putra Malaysia (UPM), Serdang, Malaysia.
- ✓ The Endomycorrhiza: A Futile Investment? Universiti Putra Malaysia (UPM) Serdang.

2009

- ✓ 5th International Conference of Biopesticides: Stake holders Prospectives. India Habitat Centre, Lodhi Road, New Delhi

2010

- ✓ National Seminar on Environmental Pollution: A Threat to Living World. Sponsored by UGC(ERO), DST, ICMR, BCST, ISCON, Nalanda College, Biharsharif, Nalanda, Bihar
- ✓ Indo-Italian workshop on Bacteria and Fungi for Environmental Susceptibility. Nov 29,30 & Dec 01 2010, Amity University, Noida, UP

2011

- ✓ 9th National Symposium on Crop Health Management for Sustainable Agri-horticultural cropping System Feb 17-19, 2011 organised by ICAR, CARI & Society of Plant Protection Science, New Delhi
- ✓ Indo-German Workshop in the frame of the program "Initiation and Intensification of Bacterial Cooperation" March 22nd-24th, 2011, Amity University, Noida.
- ✓ National Symposium on "Strategic issues in Plant Pathological Research", IPS(NZ) and INSOPP, Nov 24-25, 2011, Department of Plant Pathology, CSKHP Krishi Vishvavidyalaya, Palampur, HP, India

2012

- ✓ 14th Indian Agricultural Scientists & Farmers Congress on Diversification in Agricultural and Agripreneurship under the auspicious of Bioved Research Institute of Agriculture & Technology (BRIAT), Allahabad and Vigyan Prasar, DST, 18th-19th February, 2012, SIEMAT, Allahabad, UP-**invited Talk on Arbuscular Mycorrhiza as Biocontrol Agent**
- ✓ One day Workshop on Assessment & Accrediation of Colleges by National Assessment and Accreditation Council, 21st February, 2012 conducted by Magadh Mahila College, Patna University, Patna with technical support by NAAC, Bangalore
- ✓ National Symposium on Interdisciplinary Sciences. Sponsored by UGC. 2nd - 3rd March, 2012, Government Gandhi Memorial Science College, Jammu
- ✓ National seminar on Plant Tissue and Organ Culture: Emerging Trends, March 10-11, 2012, Department of Botany, Aligarh Muslim University, Aligarh, UP.
- ✓ Two days' Workshop on Soil Analysis & Computer Aided Drug Designing conducted by Institute of Transgene Life Sciences, Lucknow in association with Sachchidanand Sinha College, Aurangabad, 26-27 Sept, 2012.
- ✓ National Symposium on "Emerging trends in Plant Pathology" & North Zone Meet of Indian Society of Mycology and Plant Pathology. 19-20 Dec, 2012. Sher-e-Kashmir University of Agricultural sciences & Technology of Jammu

2013

- ✓ National Seminar on Plant Sciences: New Technologies, Conservation and Environment, Feb 23-24, 2013, Department of Botany, Aligarh Muslim University, Aligarh, UP.
- ✓ Two days Classroom to Corporate Programme on Product Research, Design, Development, QC & QA conducted by Institute of Transgene Life Sciences, Lucknow, 25-26 November, 2013, Sachchidanand Sinha College, Aurangabad

2016

- ✓ National Seminar on "Advances in Plant Science Frontier: Development and Environment" (APSF-2016) 26-27 Nov, 2016. Dept. of Botany, Gandhi Faiz-e-Aam College, Shahjahanpur, U.P

2020

- ✓ Two day Workshop cum Seminar "Marching Frontiers of Biotechnology" 21-22 January, 2020. Held at College of Commerce, Arts & Science, Patna in Collaboration with AVP permaculture & Agricultural Technologies and Amplicon Technologies and Amplicon Diagnostic & Research Centre, Patna

- ✓ One day International Webinar “Health Issues and Approaches in Pandemic Situation” organized by Department of Botany in association with IQAC and Seminar committee of Dum Dum Motijiheel College, Kolkata, West Bengal, India on 22nd September, 2020

Project Experience

- 1) Project Title : Integrated Nematode Management
Funding : Council of Scientific and Industrial Research, New Delhi
Position Held : Research Associate (Post Doctoral Fellow)

Project Title : Evaluating the potential of orchid Mycorrhizae in vitro and in vivo in certain orchids
Funding : University Putra Malaysia
Position Held : Post Doctoral Fellow
- 2) Project Title : Evaluating the Role of Vesicular Arbuscular Mycorrhizal fungi (VAM) in alleviating the accumulation of Heavy metals in Coca beans.
Funding : IRPA (Ministry of Agriculture) Government of Malaysia
Position Held : Researcher
- 3) Project Title : Light and ease potting mix
Funding : Universiti Putra Malaysia
Position Held : Key Research
- 4) Project Title : Potential use of natural mineral for certain crop species under different soil conditions of Malaysia-An agronomic recommendation
Funding : Dragon Gateway Sdn. Bhd. Malaysia
Position Held : Researcher
- 5) Project Title : Arbuscular Mycorrhizal interaction with certain fruit vegetables in glass house and in field
Funding : Malaysian Agri HiTech (Sarawak) Sdn. Bhd.
Position Held : Key Researcher
- 6) Project Title : Arbuscular Mycorrhizal interaction with Acacia mangium in glass house and in field
Funding : Malaysian Agri HiTech (Sarawak) Sdn. Bhd.
Position Held : Key Researcher
- 7) Project Title : Interaction between Arbuscular Mycorrhiza and Oil Palm
Funding : Malaysian Agri HiTech (Sarawak) Sdn. Bhd.
Position Held : Key Researcher