

## Professor Dr. Fazli Raziq

**Name:** Dr. Fazli Raziq S/O Abdur Raziq

**Date of Birth:** 15<sup>th</sup> April 1967

**NIC Number:** 15302-0929847-9

**Domicile:** District Dir Lower, N.W.F.P.

**Marital Status:** Married

**Present Position:** Associate Professor

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## ACADEMIC RECORD

Certificate/Degree	Year	Board/University	Marks/Total	Grade	Division
S.S.C. (Science)	1983	<b>BISE, Peshawar</b>	680/850	A-One	First
F.Sc. (Pre-Medical)	1986	BISE, Peshawar	686/1100	B	First
F.Sc. (Addl: Maths)	1987	BISE, Peshawar	170/200	A-One	First
B.Sc. (Hons) Agric. (Plant Pathology)	1990	NWFP Agricultural University Peshawar	4366/4800	CGPA 3.99/4.00	First
M.Sc. (Hons) Agric. (Plant Pathology)	1992	NWFP Agricultural University Peshawar	1029/1100	CGPA 4.00/4.00	First
Ph.D. (Plant Pathology)	1998	The University of Reading (England)	Not Applicable (NA)	NA	NA

### M.Sc. (Hons) Thesis Title

Comparison of Maydis leaf blight epidemics at different stages of maize development

### Ph.D. Thesis Title

Biological and integrated control of the root rot caused by *Armillaria mellea*

## EXPERIENCE

Title	Date	Institution
Associate Professor (BPS-19 & BPS-20)	1 <sup>st</sup> January 2005 to Date	NWFP Agricultural University Peshawar, Pakistan
Assistant Professor (BPS-18)	1 <sup>st</sup> September 2000 to 31 <sup>st</sup> December 2004	NWFP Agricultural University Peshawar, Pakistan
<b>Research Officer</b> (BPS-17)	18 <sup>th</sup> January 1992 to 31 <sup>st</sup> August 2000	NWFP Agricultural Research System

### *Courses Taught*

Course Title	Credit Hours	Class
Introduction to Plant Pathogens (General Course)	3 (2-2)	B.Sc. (Hons) Part II
Microbiology (General Course)	3 (2-2)	B.Sc. (Hons) Part II
Plant Pathology (Elective Course)	3 (2-2)	B.Sc. (Hons) Part III
Applied Plant Pathology (Elective Course)	3 (2-2)	B.Sc. (Hons) Part III
Introductory Mycology (Specialization Course)	4 (3-2)	B.Sc. (Hons) Part III
Diseases of Field Crops (Specialization Course)	4 (3-2)	B.Sc. (Hons) Part III & IV
Seed Pathology (Specialization Course)	4 (3-2)	M.Sc. (Hons) Previous
Plant Disease Epidemiology (Specialization Course)	4 (3-2)	Ph.D.

## HONOR AND AWARDS

**University Gold Medal** for standing first amongst all the successful candidates of the M.Sc. (Hons) academic session 1990-1992.

**University Silver Medal** for standing second amongst all the successful candidates of the B.Sc. (Hons) academic session 1986-1990, **President of Pakistan Award** for standing first amongst all the successful candidates of the session belonging to NWFP (Settled Areas), and **Quaid-e-Azam Merit Scholarship** for M.Sc. (Hons) studies in Pakistan and Ph.D. studies abroad.

**Arthur Hosier Award** (twice) while studying for PhD degree at the University of Reading (England) for presentation of research work in the UK and Russia. **Charles Wallace Pakistan Trust Award**, **The Leche Trust Award** and **Dr. Wali Muhammad Trust Award** for completion of PhD studies.

**SUPERVISION**

<b>Name of Student</b>	<b>Year</b>	<b>Title of M.Sc. (Hons) Thesis</b>	<b>Role</b>
Asmat Ali	2001	Effect of different levels and split doses of nitrogen application on the yield of spring potato ( <i>Solanum tuberosum</i> L.) under Swat conditions	Member Supervisory Committee
Sohail Ahmad	2002	Screening and evaluation of maize genotypes for Maydis leaf blight resistance and yield performance	Member Supervisory Committee
Attaullah	2004	Effect of substrate and dose on the efficacy of <i>Trichoderma harzianum</i> Rifai against <i>Rhizoctonia solani</i> Kühn in potato	Major Supervisor
Ishtiaq Alam	2007	Evaluation of fungicides for controlling downy mildew of onion under field conditions	Major Supervisor
Irshad Ali Khan	2007	Evaluation of various fungicides and cultivars for the control of pea rust under natural epiphytotic conditions	Member Supervisory Committee
Naveed Malik	2007	Effect of different herbicides on yield and yield components of maize ( <i>Zea mays</i> L.) hybrids	Member Supervisory Committee
Abdullah	2007	Effect of planting methods and herbicides on yield and yield components of maize ( <i>Zea mays</i> L.)	Member Supervisory Committee
Kamal Hussain	2007	Quality evaluation of drinking water of District Ghizer (Northern Areas)	Member Supervisory Committee
Zahoor Ahmad	2007	Studies on biological and chemical methods for controlling root rot in okra	Member Supervisory Committee
Sana Ishtiaq	2008	Evaluation of cucumber varieties and fungicides against downy mildew disease under natural field conditions of Tarnab, Peshawar	Major Supervisor
Haseena Naz	2009	Integrated management of crown rot of squash	Member Supervisory Committee

<b>Name of Student</b>	<b>Year</b>	<b>Title of M.Sc. (Hons) Special Problem</b>	<b>Role</b>
Sana Ishtiaq	2006	<i>In vitro</i> integrated control of <i>Alternaria solani</i> using <i>Trichoderma</i> spp. and fungicides	Advisor

<b>Name of Student</b>	<b>Year</b>	<b>Title of B.Sc. (Hons) Review Paper</b>	<b>Role</b>
Hifsa Kiran	2001	Biological control of soil-borne fungal pathogens of potato	Advisor
Manzoor Ahmad	2002	Biological control of plant diseases with <i>Trichoderma</i> spp. under field conditions	Advisor
Zishan Gul	2002	<i>Trichoderma</i> spp. as biocontrol agents against fungal tomato diseases	Advisor
Sana Ishtiaq	2005	Crown gall of stone fruits	Advisor

<b>Name of Student</b>	<b>Year</b>	<b>Title of B.Sc. (Hons) Special Problem</b>	<b>Role</b>
Hifsa Kiran	2002	Isolation of <i>Fusarium oxysporum</i> and its <i>in vitro</i> biological control by <i>Trichoderma</i>	Advisor
Manzoor Ahmad	2002	Isolation of <i>Trichoderma</i> spp. from the soil of Malakandher Farm, NWFP Agricultural University,	Advisor

		Peshawar	
Zishan Gul	2002	Effect of media type and concentration on the <i>in vitro</i> interaction of <i>Trichoderma harzianum</i> and <i>Fusarium oxysporum</i>	Advisor
Ishtiaq Alam	2004	Effect of pH on the <i>in vitro</i> antagonistic interactions between <i>Rhizoctonia solani</i> and <i>Trichoderma</i> species	Advisor
Sana Ishtiaq	2005	<i>In vitro</i> integrated control of <i>Rhizoctonia solani</i> using <i>Trichoderma</i> species and Ridomil	Advisor

Name of Student	Year	Title of B.Sc. (Hons) Internship Report	Role
Adil Hussain	2006	<i>In vitro</i> integrated control of <i>Colletotrichum gloeosporioides</i> Penz with <i>Trichoderma</i> spp. and reduced doses of fungicides	Advisor

#### *Externally Funded Research Projects*

Title of the Project	Funding Agency	Amount (Million Rs.)	Role	Status
Integrated control of root rot of pepper in Peshawar and Malakand Divisions	Pakistan Agricultural Research Council (Agricultural Linkages Program)	2.622	Principal Investigator	Utilized over Rs.1.4 million of the budget. Handed over the project to a colleague due to illness.

#### **MEMBERSHIPS**

I am a member of the International Root and Butt Rots Working Group and Pakistan Phytopathological Society. I am also a member of Board of Studies in the Department of Plant Pathology and Board of Faculty in the Faculty of Crop Protection Sciences, NWFP Agricultural University, Peshawar.

#### *Trainings Imparted*

I have imparted trainings on biocontrol of plant diseases to personnel of Agriculture Department, Government of NWFP, who are mandated with communicating innovative agricultural technologies to the farming community of the province.

#### *National Recognition*

Recognized as Productive Scientist by Pakistan Council for Science and Technology.

## **PUBLICATIONS**

### **(a) Research Papers in Refereed Journals**

Raziq, F. and Ahmad, S. 1992. Comparison of Maydis leaf blight epidemics at different stages of maize development. *Sarhad Journal of Agriculture*, 8: 569-573.

Raziq, F. and Fox, R.T.V. 1999. Biological control of *Armillaria* root rot. *Acta Horticulturae*, 496: 115-126.

- Raziq, F. and Fox, R.T.V. 2003. Comparisons between the *in vitro* and *in vivo* efficacies of potential fungal antagonists of *Armillaria mellea*. *Biological Agriculture & Horticulture*, 21: 263-276.
- Raziq, F. and Fox, R.T.V. 2004. Antagonistic activities of selected fungal isolates against *Armillaria mellea*. *Biological Agriculture & Horticulture*, 22: 41-56.
- Raziq, F. and Fox, R.T.V. 2004. The effect of carrier substrate, dose rate and time of application on biocontrol efficacy of fungal antagonists against *Armillaria* root rot of strawberry plants. *Biological Agriculture & Horticulture*, 22: 157-172.
- Raziq, F. and Fox, R.T.V. 2004. Cultural techniques for improvement in biocontrol potential of fungal antagonists against *Armillaria* root rot of strawberry plants under glasshouse conditions. *Biological Agriculture & Horticulture*, 22: 271-287.
- Gul, Z. and Raziq, F. 2005. Effect of media type and concentration on the *in vitro* interactions of *Trichoderma harzianum* and *Fusarium oxysporum* f.sp. *lycopersici*. *Sarhad Journal of Agriculture*, 21: 103-107.
- Attaullah and Raziq, F. 2005. Inhibitory effects of cultural filtrate and culture of *Trichoderma harzianum* Rifai on *Rhizoctonia solani* Kühn. *Sarhad Journal of Agriculture*, 21: 113-116.
- Raziq, F., Ahmad, M. and Kiran, H. 2005. Isolation of *Trichoderma* on selective media and its *in vitro* efficacy against *Fusarium oxysporum*. *Sarhad Journal of Agriculture*, 21: 117-120.
- Raziq, F. and Fox, R.T.V. 2005. Combinations of fungal antagonists for biological control of *Armillaria* root rot of strawberry plants. *Biological Agriculture & Horticulture*, 23: 45-57.
- Rahman, H., Raziq, F. and Ahmad, S. 2005. Screening and evaluation of maize genotypes for southern leaf blight resistance and yield performance. *Sarhad Journal of Agriculture*, 21: 231-235.
- Raziq, F. and Fox, R.T.V. 2005. Use of electrical current for controlling growth of *Armillaria mellea* *in vitro*. *Sarhad Journal of Agriculture*, 21: 271-274.
- Alam, I. and Raziq, F. 2005. Effect of pH on the *in vitro* antagonistic interactions between *Rhizoctonia solani* and *Trichoderma* species. *Sarhad Journal of Agriculture*, 21: 281-285.
- Attaullah and Raziq, F. 2005. Effect of substrate and dose rate on the efficacy of *Trichoderma harzianum* Rifai against *Rhizoctonia solani* Kühn in potato. *Sarhad Journal of Agriculture*, 21: 451-456.
- Raziq, F. and Fox, R.T.V. 2005. *In vitro* evaluation of potential fungal antagonists for activity against different isolates of *Armillaria mellea*. *Sarhad Journal of Agriculture*, 21: 467-471.
- Raziq, F. and Fox, R.T.V. 2005. *In vitro* interactions between *Armillaria mellea* and its fungal antagonists. *Sarhad Journal of Agriculture*, 21: 703-711.

- Raziq, F. and Fox, R.T.V. 2006. The integrated control of *Armillaria mellea*. 1. Glasshouse experiments. *Biological Agriculture & Horticulture*, 23: 225-234.
- Raziq, F. and Fox, R.T.V. 2006. The integrated control of *Armillaria mellea*. 2. Field experiments. *Biological Agriculture & Horticulture*, 23: 235-249.
- Raziq, F. and Fox, R.T.V. 2006. Sequential application of fungal antagonists and systemic fungicides for controlling *Armillaria* root rot of strawberry plants. *Sarhad Journal of Agriculture*, 22: 307-315.
- Ishtiaq, S. and **Raziq, F.** 2006. In vitro integrated control of *Rhizoctonia solani* Kühn with species of *Trichoderma* and *Ridomil*. *Sarhad Journal of Agriculture*, 22: 491-495.
- Khan, H., Naz, I., Ahmad, M., Hussain, S. and **Raziq, F.** 2006. Chemical control of root and collar rot of chillies. *Scientific Khyber*, 19: 57-64.
- Khan, H., **Raziq, F.** and Ali, B. 2006. Incidence of powdery mildew on okra in Peshawar and Nowshera districts of North-West Frontier Province, Pakistan. *Scientific Khyber*, 19: 65-69.
- Hussain, A., **Raziq, F.** and Khan, H. 2008. In vitro integrated control of *Colletotrichum gloeosporioides* with biological and chemical agents. *Sarhad Journal of Agriculture*, 24: 79-84.
- Raziq, F.**, Alam, I., Naz, I. and Khan, H. 2008. Evaluation of fungicides for controlling downy mildew of onion under field conditions. *Sarhad Journal of Agriculture*, 24: 85-91.
- Junaid, M., Khan, H., Ali, A., Ahmad, M. and **Raziq, F.** 2009. Response of various maize cultivars to different levels of nitrogen against *Bipolaris maydis* (Nisik) Shoemaker under natural epiphytotic conditions. *Sarhad Journal of Agriculture*, 25: 243-249.
- Khan, I.A., Khan, H., Ali, A., **Raziq, F.** Hussain, S. Ahmad, M. and Attauddin, 2009. Evaluation of various fungicides and cultivars for the control of Pea rust under natural conditions. *Sarhad Journal of Agriculture*, 25: 261-268.
- Raziq, F.** and Ishtiaq, S. 2009. Integrated control of *Alternaria solani* with *Trichoderma* spp. and fungicides under in vitro conditions. *Sarhad Journal of Agriculture*, (Submitted).

(b) Full-length Papers and Abstracts Published in Proceedings of International Conferences, Congresses and Symposia

- Fox, R.T.V., McQue, A.M., West, J.S. and **Raziq, F.** 1994. Integrated control of *Armillaria* root rot using antagonistic fungi. *Abstracts of the Fifth International Mycological Congress*, 14-21 August 1994, Vancouver, British Columbia, Canada. p. 65.
- Fox, R.T.V., McQue, A.M., West, J.S. and **Raziq, F.** 1994. Use of antagonistic fungi to control *Armillaria* root rot. *Proceedings of Brighton Crop Protection Conference* (Pests and Diseases), 21-24 November 1994, Brighton, England. Vol. 3, pp. 1115-1120.
- Fox, R.T.V., McQue, A.M., West, J.S., Manley, H.M. and **Raziq, F.** 1994. Prospects for the control of *Armillaria* root rot of trees. *ANPP- Fourth International Conference on Plant Diseases*, 6-8 December 1994, Bordeaux, France. pp. 725-730.

- Raziq, F.** and Fox, R.T.V. 1995. Biological control of *Armillaria* root rot with fungal antagonists. *White Rot Fungi Symposium*. 3-5 April 1995. The University of Reading, U.K. p.10.
- Raziq, F.** and Fox, R.T.V. 1997. Biological control of *Armillaria* root rot. *Proceedings of the Fourth International Conference of Russian Academy of Sciences on Problems of Phytopathology and Mycology*, 13-17 October 1997, Moscow, Russia. pp. 130-132.
- Raziq, F.** and Fox, R.T.V. 1998. The effect of the combination of fungal antagonists on the suppression of *Armillaria* root rot. *Proceedings of the British Mycological Society International Symposium: The Future of Fungi in the Control of Pests, Weeds and Diseases*. 5-9 April 1998, Southampton University, U.K. p. 133.
- Raziq, F.** and Fox, R.T.V. 1998. Biological control of *Armillaria* root rot using spent mushroom compost amended with combinations of fungal antagonists isolated from mushrooms. *Abstracts of the 7<sup>th</sup> International Congress of Plant Pathology*, 9-16 August 1998, Edinburgh, Scotland, U.K. Vol. 3: Abstract No. 6.84.
- Raziq, F.** and Fox, R.T.V. 2000. Integrated control of *Armillaria mellea* using antagonists with fungicides. *5th Congress of the European Foundation for Plant Pathology*, Taormina-Giardini Naxos, Italy. 19-22 September 2000.
- Raziq, F.** and Fox, R.T.V. 2001. Integrated control of *Armillaria mellea* by *Trichoderma harzianum* and fosetyl-Al. *Proceedings of the 10<sup>th</sup> International Conference on Root and Butt Rots. IUFRO Working Party 7.02.01*. 16-22 September 2001. Quebec, Canada. pp. 133-138.
- Raziq, F.** and Fox, R.T.V. 2003. The integrated control of *Armillaria mellea*. Glasshouse Experiments. *Proceedings of the 8<sup>th</sup> International Congress of Plant Pathology*. 2-7 February 2003. Christchurch, New Zealand. Vol. 2: Abstract No. 9.18.
- Raziq, F.** and Fox, R.T.V. 2005. Factors affecting biocontrol efficacy of *Trichoderma* spp. and other antagonists of *Armillaria mellea*. *Proceedings of the 11<sup>th</sup> International Conference on Root and Butt Rots. IUFRO Working Party 7.02.01*. 16-22 August 2004. Poznan, Poland. pp. 403-411.

#### (c) Chapter in Book

- Raziq, F.** 2000. Biological and integrated control of *Armillaria* root rot. Chapter 10 (pp. 183-201) in: R.T.V. Fox (ed.) *Armillaria Root Rot: Biology and Control of Honey Fungus*. Intercept Publishers, Andover, U.K.

#### (d) Extension Pamphlets

- Hidayatullah and **Raziq, F.** 1992. Agricultural Research Station, Chitral: Introduction, aims and objectives and a brief overview of the research conducted during 1990-1991 (in Urdu).
- Jan, T., Khan, M., **Raziq, F.** and Rahman, K. 1993. Cultivation of Walnut (in Urdu).