

CURRICULUM VITAE

DR. SARTAJ ALAM SYED

Personal Information

Assistant Professor
Department of Plant Pathology,
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Date of Birth: 30-01-1979
Languages: English, Pashto, Urdu, Japanese



EDUCATION

Degree	Year of Graduation	University	Major subjects
PhD	March 2011	Chiba University Japan	Agriculture (Plant Pathology)
M.Sc (Hons)	2003	Agricultural University Peshawar, Pakistan	Agriculture (Plant Pathology)
B.Sc(Hons)	2001	Agricultural University Peshawar, Pakistan	Agriculture (Plant Pathology)

Job Experience

Post held	Organization	Date
Research Officer (Plant Pathology)	NWFP Agricultural University, Peshawar (ARI Tarnab)	19-01-2005
Lecturer	Department of Plant Pathology, Agricultural University, Peshawar	10-11-2005 to 06-01-2012
Assistant Professor	Department of Plant Pathology, Agricultural University, Peshawar	07-01-2012 to date

Research Publications in chronological order

1. Aqleem Abbas, SyedaSohaila Naz and **Syed SartajAlam** 2015: Antimicrobial activity of silver nanoparticles (AgNPs) against *Erwinia carotovora* pv. *carotovora* and *Alternaria solani*. *International journal of bioscience*, Vol. 6, No. 10, p. 9-14, 2015.
2. Syeda Naz, Muhammad Shah, Nazar Islam, Ajmal Khan, Samina Nazir, Sara Qaisar, **Syed Alam**. Synthesis and bioactivities of silver nanoparticles capped with 5-Amino-beta-resorcylic acid hydrochloride dehydrate. *Journal of Nanobiotechnology* 2014, **12**:34: **(impact factor 4.08)**
3. Asma Akbar, Subhan ud Din, Mushraf Ahmad, Gul daraz Khan, **Sartaj Alam**: Effect of Phytobiocides in Controlling Soft Rot of Tomato. *Journal of Natural Sciences Research*. Vol 4, No 11 (2014)
4. Hafiz farhad ali, Ayesha bibi, musharaf ahmad, muhammad junaid, Asad ali, shaukat hussain, shah alam and **sartaj alam**. 2014: Characterization of the causal organism of blackleg and soft rot of potato, and management of the disease with balanced fertilization. *Pak. J. Bot.*, 46(6): 2277-2284, 2014. **(impact factor 0.82)**
5. Syeda Sohaila Naz, Nazar Ul Islam, Muhammad Raza Shah, **Syed Sartaj Alam**, Zafar Iqbal, Massimo Bertino, Louis Franzel, Afifa Ahmed: 2013 Enhanced biocidal activity of Au nanoparticles synthesized in one pot using 2, 4-dihydroxybenzene carbodithioic acid as a reducing and stabilizing agent. *Journal of Nanobiotechnology* 2013, **11**:13 **(impact factor 4.08)**
6. **Syed Sartaj ALAM**, Kazunori SAKAMOTO and Kazuyuki INUBUSHI 2011: Biocontrol Efficiency of Fusarium Wilt Diseases by a Root-colonizing Fungus *Penicillium* sp. *Soil Science and Plant Nutrition*, Vol. 57, No.1, Pp. 204-212 **(Impact Factor 0.989)**
7. Raham Sher Khan, **Syed Sartaj Alam**, Iqbal Munir, Pejman Azadi and Ikuo Nakamura *et al.* 2011. *Botrytis cinerea* resistant marker-free *Petunia hybrida* produced using the MAT vector system. *Plant cell, tissue and organ culture*. Vol.

- 106, No. 1, Pp: 11-20 (**Impact Factor 2.61**)
8. **Syed Sartaj ALAM**, Kazunori SAKAMOTO and Kazuyuki INUBUSHI **2011**:
Effect of *Penicillium* sp. EU0013 inoculation on tomato growth and Fusarium wilt.
Hortresearch, Vol. 65 Pp. 69-73
 9. **Syed Sartaj Alam**, Kazunori Sakamoto, Yoshimiki Amemiya and Kazuyuki Inubushi **2010**: Biocontrol of soil-borne Fusarium wilts of tomato and cabbage with a rootcolonizing fungus, *Penicillium* sp. EU0013. Proceedings of 19th World Congress of Soil Science, Pp. 20-22 Published on DVD.
 10. **Syed Sartaj Alam** and Shabeer Ahmad. **2005**. Identification of rust pathogen species isolated from different Garlic cultivars planted in District Swabi, NWFP.
Sarhad j. Agric.Vol.21, No, 1. Pp:109-111
 11. **Syed Sartaj Alam**, Musharaf Ahmad, Shah Alam, Amjad usman and Mian Ishaq Ahmad. **2007**. Variation in Garlic cultivars for reaction to natural infection of *Puccinia porri* wint and *Alternaria porri* Clif at Swabi, NWFP. *Sarhad j. Agri. Vol.23, No, 1. Pp:149-152*
 12. Ahmad, M., **Alam, S.S.**, Alam, S., Usman, A. and David L. Coplin **2007**. Export of the HR eliciting protein, Harpin_{ES}, of the maize pathogen *Erwinia stewartii* is species-specific but is independent of the growth temperature. *Pak. J. Biol. Sci.* 10(1): 117-121.
 13. Ahmad, M., **Alam, S. S.**, Usman, A., Majerczak, D. R. and Coplin, D. L. **2006**. Exploring the functions of genes co-regulated with the *hrpN* gene of the corn pathogen *Erwinia (Pantoea) stewartii*. *Mycopath.* 4(2): 5-8.
 14. Ahmad, M., **Alam, S. S.**, Usman, A., Anis-Ur Rahman and Coplin, D. L. **2006**. Host range study and production of harpin_{ES} by *Pantoea stewartii* subsp. *indologenes*, a bacterium closely related to the corn pathogen, *Erwinia stewartii*. *Indus J. Plant Sci.* 3(2): 762-767.
 15. Ahmad, M., **Alam, S. S.**, Alam, S., Khan, I. A., and Ahmad, N. **2006**. Evaluation

- of wheat germplasm against yellow rust (*Puccinia striiformis* f.sp *tritici*) under natural conditions. Sarhad J. Agric. 22 (4) 661-665.
16. Tahir, M., Ahmad, M., Shah, M., **Alam, S. S.**, and Haq, G. **2006**. Effect of various inter- and intra row spacing on the intensity of downy mildew of onion. Sarhad J. Agric. 22 (1) 105-106.
17. Tahir, M., Ahmad, M., Shah, M., **Alam, S. S.**, Khattak, M. K. **2006**. Field efficacy of different spray fungicides on the severity of garlic rust, *Puccinia porri* Wint. Sarhad J. Agric. 22 (2) 317-319.
18. Shah, M., Tahir, M., Ahmad, M., **Alam, S. S.**, and Haq, G. **2006**. Screening of garlic varieties/lines for resistance to rust (*Puccinia porri*) under natural field conditions. Sarhad J. Agric. 22 (1) 107-110.

Plant Pathology courses taught in last 3 years

1. PhD Courses

- i. Biochemistry and Physiology of diseased plants
- ii. Ecology and Epidemiology of plant diseases

2. MSc (Hons) courses

- i. Fungal Systematics
- ii. Seed Pathology

3. B. Sc (Hons) courses

- i. Seed and Post Harvest Pathology
- ii. Pesticides, their actions and applications
- iii. Introductory Plant Pathology
- iv. Introductory Mycology
- v. Plant Disease Diagnosis

M. Sc (Hons) Research students supervised

S. No.	Name	Topic of Thesis	Year
1	Nida Haroon	Effect of soil amended with <i>Penicillium</i> sp. on tomato Fusarium wilt	2013
2	Muhid Khan	Effect of different organic substrates on the efficacy of biocontrol agent <i>Penicillium</i> sp. against Fusarium wilt of tomato	2013
3	Zia Ullah	Biocontrol of <i>Fusarium solani</i> by root-colonizing fungus <i>Penicillium</i> sp. EU0013	2013
4	Ilyas Hussain	Exploring medicinal plant rhizosphere for the presence of potential bio control Fungi	2014
5	Imran Khan	Management of black scurf disease of potato with biocontrol agent and phytobiocides	2015

Scholarships, Fellowship, Awards and Distinctions

- **Visiting Research Fellow** (Chiba University Japan) July-Aug 2011
- Awarded **PhD Foreign Scholarship** by Higher Education Commission of Pakistan under Faculty development program of The University of Agriculture, Peshawar.
- Awarded Silver Medal on 28-03-2005 by virtue of being Second position holder in the Faculty of Crop Protection Sciences in M.Sc (Hons).
- Awarded Merit Certificate (2003-04) by virtue of being First position holder in M.Sc(Hons) in the Department of Plant pathology
- Awarded Academic Distinction Certificate (1999-2000) by virtue of being position holder in B.Sc(Hons).II
- Awarded Talent Award in 2004 by Fauji Foundation Pakistan.

Collaborations with Japanese Company in Agriculture sector

- ✧ Conducted research and submitted technical report titled: **Utilization of super absorbent polymer (SAP) coated seeds of cotton under various soil moisture conditions** to **Nippon Shokubai Company Ltd.** This report is under patent approval from Ministry of Agriculture, Forestry and Fisheries Japan.

Professional Membership

- Member of Japanese Society of Soil Science and Plant Nutrition
- Life time member of Chemical Society of Pakistan
- Member of Pakistan Phytopathological Society
- Member of weed Science Society of Pakistan
- Selected as Expert in Plant Pathology by Radio Pakistan for “Karkila” Programme. The objective of this programme is to educate the farmers and solve their agricultural problems.

Oral Presentations in Conferences

- Delivered oral presentation titled, Plant Growth Promoting Fungus *Penicillium* sp EU0013 , to control Fusarium Wilt Diseases in **7th International Symposium for Subsurface Microbiology held in Shizuoka, Japan. (16-21 Nov 2008).**
- Delivered oral presentation titled Potential of benomyl-resistant mutant of *Penicillium* sp. EU0013, for enhancing plant growth and biological control of Fusarium wilt diseases in **annual meeting of Soil Science and plant Nutrition that was held in Kyoto, Japan (15-17 September 2009).**
- Delivered oral presentation titled, Biocontrol and plant growth promotion by a root-colonizing fungus, *Penicillium* sp. EU0013 in tomato and cabbage **in annual meeting of Soil Science and plant Nutrition that was held in Sapporo, Japan (7-9 September 2010).**
- Participated and presented research paper on “Garlic Germplasm evaluation for resistance to rust and purple blotch diseases under natural field conditions” **in 4th National Conference of Plant Pathology held on 14-16 Oct, 2003 organized by Pakistan Phytopathological Society.**

Posters presentations in congress/conferences

- Presented poster titled, Biological control of Fusarium Wilt Diseases Using a Novel Plant Growth Promoting Fungus, *Penicillium* sp. EU0013, in **GP Postgraduate International workshop** held in **Ibaraki University, Japan. (12-13 January 2009).**
- Biocontrol of soil-borne Fusarium wilts of tomato and cabbage with a root-colonizing fungus, *Penicillium* sp.EU0013. **19th World Congress of Soil Science (1-6 Aug 2010), Brisbane Australia**
- Presented poster titled Comparative PR gene expression in tomato inoculated with *Fusarium oxysporum* f. sp. *lycopersici* and the biocontrol agent *Penicillium* sp. EU0013 **in the annual meeting of Japanese Society of Soil Science and Plant Nutrition, Tsukuba (8-10 August, 2011) Japan.**

Trainings obtained

- Participated in one day training course on **Seed production Technology** held on 28th June, 2003 at NWFP Agricultural University, Peshawar Pakistan
- Participated in three days training workshop for the newly recruited research specialists of Agricultural Research System NWFP, conducted at NWFP Agricultural University, Peshawar Pakistan, April 14-16, 2005
- Participated in two days training workshop on “Case teaching Methodologies”, organized by Higher Education Commission of Pakistan on March 14-15, 2007.

Trainings conducted

- Conducted four days **Training workshop on Mushroom Cultivation** in village charpareiza, District Peshawar to farmers supported by Sarhad Rural Support Programme (SRSP) held on 11-15 December, 2005.

- Participated as expert in Citrus way forward workshop held at Swat regency on 27-29 December, 2006.
- Delivered Lecture on “Bacterial Diseases of Tomato and their Control with emphasis on Bio-Control” in Training Course on Diseases of Tomato and their Management Organized Under HEC Funded Project Biological Management of Root Knot Nematodes with *Trichoderma Harzianum*, on 20-23 December 2006
- Delivered Lecture On “Morphology and Biology of Plant Parasitic Nematodes” in Training Course on Diseases of Tomato and their Management Organized Under HEC Funded Project Biological Management of Root Knot Nematodes with *Trichoderma Harzianum*, on 20-23 December 2006
- Delivered Lecture on “**Cultivation Methods of Button Mushroom**” In two days Training Programme on Mushroom Cultivation for Rural Women and Female Extension Workers Held on April 3-4, 2007