

Curriculum Vitae

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Name: Akbar Shirzad

Profession: Scientific staff of Tarbiat Moallem Azarbayjan University,
Department of Plant protection

University Education:

BSc. Plant Protection in Tabriz University-Tabriz, IRAN.

MSc. Plant pathology in Tehran University-Karaj, IRAN.

PhD: Plant pathology in Tehran University-Karaj, IRAN.

Teaching Experiences

Mycology

Post harvest Plant Diseases

Ornamental Plant Diseases

Biological Control

Certifications:

Wheat Transformation by ICARDA, CTMMYT, ABR II and AREO. 26-30 October 2002. Karaj, IRAN.

Molecular neuroimmuno psychology by National Research Center for Genetic Engineering and Biotechnology.

Application of Bioinformatics in Molecular Biology by Tarbiat Moallem University of Azarbaijan and National Research Center for Genetic Engineering and Biotechnology. 19-21 May 2004, Tabriz, IRAN

Application of Bioinformatics in Plant Pathology by Deutsche Sammlung von Mikroorganismen und Zellkulturen GmbH (DSMZ) and University of Tehran. 14-16 June 2005. Karaj, IRAN.

Papers and presentations:

Shirzad, A., Pazhouhandeh, M., Ahmadabadi, M., Behboudi K. Analysis of cross-talk between *Trichoderma atroviride* and *Pseudomonas fluorescens*. Accepted in 2012.

Shirzad, A., Falahzadeh, V., Pazhoohandeh, M. **2012.** Antagonistic Potential of Fluorescent *Pseudomonads* and Control of Crown and Root Rot of Cucumber Caused by *Phytophthora drechsleri*. *Plant Pathol. J.* 28(1) : 1-9. The Korean Society of Plant Pathology.

Shirzad, A., Sharifi Tehrani, A., Ahmadzadeh, M., Behbodi, K., and Javan-nikkhah, M. **2008.** The expression of chitinase genes (*nag1* and *ech42*) of *Trichoderma atroviride* in interaction with *Pseudomonas fluorescens*. *Iran. J. Plant Path.* Vol. 44. 330-346.

Shirzad, A. and Bolandnazar S. (2002).The effect of two herbicides and their combined effect on weed control and the output of onion (*Allium cepa* L.). *Agriculture science*,12.

Shirzad, A., Sharifi Tehrani A., Hedjaroud, G.H., and Okhowat, S.M. The effect of three herbicides on pathogenicity of *Rhizoctonia solani* on soybean. 14th Iranian plant protection congress, 5-8 September 2000, Isfahan University of Technology.Isfahan, IRAN.

Shirzad, A., Sharifi Tehrani A., Hedjaroud, G.H., and Okhowat, S.M. The effect of three herbicides on pathogenicity of *Rhizoctonia solani* on cotton. 14th Iranian plant protection congress, 5-8 September 2000, Isfahan University of Technology.Isfahan,IRAN.

Shirzad, A., Pazhoohandeh, M. Economical culture medium for potato micro propagation in safe-seed production program. 3rd Iranian horticultural science congress, September 2003. Karaj, IRAN.

Pazhoohandeh, M., Mozafari, J., **Shirzad, A.** The new method for in vitro maintenance of virus-infected plant samples. 3rd Iranian horticultural science congress, September 2003. Karaj, IRAN.

Agazade, M., **Shirzad, A.,** and Pazhoohandeh, M. Electrotherapy a new technique for medical treatment of HIV virus and other viruses. 1st Microbiological news seminar.17 Desember 2003. Gom University.

Shirzad, A. and Bolandnazar, S. The effect of two herbicides and their combined effect on weed control and the output of onion (*Allium cepa* L.). 15th Iranian plant protection congress, 7-11 September 2002, Razi Univ. Kermanshah. IRAN.

Shirzad, A., Pazhouhandeh, M. New aspect of potato viruses electrotherapy.12th EAPR virology section meeting, Rennes-France. 2004.(13th-19th June).

Pazhouhandeh, M., Mozafari, J., **Shirzad, A.** Efficiency of different virus elimination methods in potato in vitro plantlets. 12th EAPR virology section meeting, Rennes-France. 2004.(13th-19th June).

Shirzad, A., Sharifi Tehrani, A., Behbodi, K., and Ahmadzadeh, M. Quantification of the fluorescent Pseudomonads population in wheat fields of Azarshahr region of Tabriz (Iran) and evaluation of the inhibitory effects of its isolates on the growth of *Gaeumannomyces graminis* var. *tritici*. 18th Iranian plant protection congress, 24-27 August 2008, Bu-Ali Sina Univ. Hamedan. IRAN.

Shirzad, A., Sharifi-Tehrani, A., Ahmadzadeh, M., Behboudi, K., and Javan-nikkhah, M. The expression of chitinase genes (*nag1* and *ech42*) of *Trichoderma atroviride* in interaction with *Pseudomonas fluorescens*. The 6th National Biotechnology Congress of Iran. 13-15 Aug, 2009, Tehran-Iran.

Shirzad, A., Valizadeh kamran, R., Ahmadabadi, M. Comparison of DNA extraction methods in *Pseudomonas fluorescens*. The 6th National Biotechnology Congress of Iran. 13-15 Aug, 2009, Tehran-Iran.

Shirzad, A., Sharifi Tehrani, A., Behbodi, K., and Ahmadzadeh, M. Quantification of the fluorescent Pseudomonads population in wheat fields of Azarshahr region of Tabriz (Iran) and evaluation of the inhibitory effects of its isolates on the growth of *Gaeumannomyces graminis* var. *tritici*. 18th Iranian plant protection congress, 24-27 August 2008, Bu-Ali Sina Univ. Hamedan. IRAN.

Bolandnazar, S., **Shirzad, A.** and Grigorian, A. Assessment the Adoptability of Some Pistachio Cultivars in Azar Shahr Region . 5th International Symposium on Pistachios and Almonds – ISHS – Sanliurfa – Turkey, Oct.06-10, 2009.

Shirzad, A., Valizadeh kamran, R., Ahmadabadi, M. Comparison of DNA extraction methods in *Pseudomonas fluorescens*. The 6th National Biotechnology Congress of Iran ,13-15 Aug, 2009, Tehran-Iran.

Soleimani, B., Ahmadabadi, M., Pazhouhandeh, M., Mohammadi, A., **Shirzad, A.** Integration of the *ech42* gene in to the Arabidopsis genome by Floral dip transformation method. 16th National and 4th International Conference of Biology, Ferdowsi university of Mashhad, Mashhad, Iran. 14-16 September 2010.

Fateri Rezvani, S., Pazhouhandeh, M., **Shirzad, A.**, Ahmadabadi, M. Production of transgenic potato resistant plants to PVX via RNA silencing. The 7th National Biotechnology Congress of I. R. Iran ,12-14 Sep, 2011, Niroo Research Institute, Tehran-Iran.

Fateri Rezvani, S., Pazhouhandeh, M., **Shirzad, A.**, Ahmadabadi, M. Production of transgenic potato resistant plants to PLRV by knocking down of its suppressor protein of RNA silencing. The first National Conference on Modern Agricultural Sciences & Technologies (MAST), 9-12 Sep, 2011, Zanjan University, Iran. P42.

Nezami, E., **Shirzad, A.**, Pazhouhandeh, M. and Valizadeh Kamran, R. Isolation and Cloning of LysM-RLK1 (CERK1) and study on the effect of its expression in resistance to fungal and bacterial pathogens in plants. The 7th National Biotechnology Congress of I. R. Iran ,12-14 Sep, 2011, Niroo Research Institute, Tehran-Iran.

Research projects

Shirzad, A., Grigoorian, w., and Bolandnazar, S. Study of several pistachio cultivars adaptation in Azarshahr region.

Shirzad, A., and Pazhoohandeh, M. Investigation of different aspects in potato viruses electrotherapy.

Shirzad A., and Eivazian S. Susceptibility of *Heliothis armigera* to some geographical isolates of entomopathogenic nematodes.

Shirzad, A., Falahzadeh, V., Pazhoohandeh, M., and Habibi, B. Isolation and screening of beneficial *Pseudomonas* species' for biological control of *Phytophthora* root rot of cucumber

Shirzad, A., Falahzadeh, V., Pazhoohandeh, M., Genetic diversity of fluorescent pseudomonads isolated from wheat fields with potential antagonistic activity against *Gaeumannomyces graminis* var. tritici