

CURRICULUM VITAE

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DEGREES:

-B. of Science	Plant Protection	Ahvaz Uni., Iran	Awarded 1985
-M. of Science	Plant Pathology	T. M. U., Iran	Awarded 1989
-Ph.D.	Molecular Plant Virology	Adelaide Uni., Australia	Awarded 1997
-Sabbatical leaves		Scottish Crop Research Institute, UK	2005-2006

TEACHING POSITIONS:

- Lecturer	Ahvaz Uni., Iran	1989-1997
- Assistant Professor	TMU, Iran	1997-2008
- Associate Professor	TMU, Iran	2008- 2018
- Professor	TMU, Iran	2018- Now

COURSES TAUGHT:

- Plant Virology
- Molecular Plant Pathology
- Molecular Genetic
- Plant Biotechnology

RESEARCH INTERESTS:

- Characterization of molecular, biological and distributions of plant viruses
- Evaluation of Iranian germplasms for resistance to plant viruses
- Management of plant viral diseases
- Identification and characterization of plant viruses
- Expressions of recombinant protein in bacterial and planta systems

JOURNAL PAPERS:

1. Shams-Bakhsh M. and R.H. Symons. 1997. Barley yellow dwarf virus – PAV RNA does not have a VPg. **Archives of Virology** 142: 2529-35.
2. Shams-Bakhsh M. and H. Rahimian. 1997. Comparative study on agents of citrus blast and bacterial canker of stone fruits in Mazandaran. **Iranian Journal of Plant Pathology** 33:132-143.
3. Shams-Bakhsh M., Khakvar R. and R. Pourahim. 2001. Purification, antiserum preparation and serological identification of potato Y and X viruses isolated from potato fields of Khuzestan province. **The Scientific Journal of Agriculture** 24(1): 35-47.
4. Eslahi R., Farokhi R. and M. Shams-Bakhsh. 2001. Isolation and identification of antagonist fluorescent pseudomonades from Khuzestan province and study of their repression against casual agent of seedling damping – off. **The Scientific Journal of Agriculture** 23(2): 31 – 50.
5. Lak M. R., Shams-Bakhsh M. and M. Bahar. 2002. Identification of the bacterial agent of bean leaf and pod blight in Markazi province. **Journal of Science and Technology of Agriculture and Natural Resource** 6(1): 231 – 243.
6. Lak M. R. Bahar M. and M. Shams-Bakhsh. 2002. Comparison of serological methods for identification of common bacterial blight in bean seed in Markazi province. **Iranian Journal of Plant Pathology** 38:193-206.
7. Shams-Bakhsh M. and R. H. Symons. 2004. Cloning and expression of the coat protein gene of *Barley yellow dwarf virus-PAV* in *Escherichia coli*. **Iranian Journal of Biotechnology** 2(2): 84-89.
8. Hashemi M., Mozaffari J., Alizadeh A. and M. Shams-Bakhsh. 2004. dsRNA associated with *Fusarium graminearum* isolates in Iran. **Iranian Journal of Plant Pathology** 40:313-326.
9. Soleimani M. J., Shams-Bakhsh M., Taghavi M. and Sh. Kazemi. 2005. Biological control of stem and root rot of wheat caused by *Biopolaris* spp. by using antagonistic bacteria, fluorescent pseudomonads and *Bacillus* spp. **Journal of Biological Sciences**. 5(3): 347-353.
10. Khakvar R., Shams-Bakhsh M. and R. Pourahim. 2005. Status of six potato viruses in Khuzestan province. **Applied Entomology and Phytopathology** 73(1):25-37
11. Omidvar R., Shams-Bakhsh M. and H. Rahimian. 2006. Characterization of Iranian *Erwinia amylovora* strains using biochemical tests and RAPD method. **Iranian Journal of Plant Pathology** 42(4): 673-686.
12. Ebrahim-Ghomi M., Shams-Bakhsh M. and R. Pourahim. 2007. Status of Three Grapevine Viruses in North-Eastern Vineyards of Iran. **Applied Entomology and Phytopathology** 75(1): 109-120.
13. Shams-Bakhsh M., Canto T. and P. Palukaitis. 2007. Enhanced resistance and neutralization of defense responses by suppressors of RNA silencing. **Virus Research** 130:103-109.
14. Mirzaei S., Mohamadi Goltapeh, E., and M. Shams-Bakhsh. 2007. Taxonomical studies of the genus *Botrytis* in Iran. **Journal of Agricultural Technology** 3(1):65-76.
15. Mirzaei S., Mohamadi Goltapeh, E., Shams-Bakhsh M. and N. Safaie. 2008. Identification of *Botrytis* spp. on plants grown in Iran. **Journal of Phytopathology** 156:21-28.

16. Mohamadi Goltapeh, E., Shams-Bakhsh M. and B. Pakdaman. 2008. Sensitivity of the Nematophagous Fungus *Arthrobotrys oligospora* to fungicides, insecticides and crop supplements used in the commercial cultivation of *Agaricus bisporus*. **Journal of Agricultural Science and Technology** 10: 383-389.
17. Azizi A., Mozaffari J. and M. Shams-Bakhsh. 2008. Phenotypic and molecular screening of tomato germplasm for resistance to *Tomato yellow leaf curl virus*. **Iranian Journal of Biotechnology** 6:199-207.
18. Khodayari M., N. Safaie and M. Shams-Bakhsh. 2008. Study of genetic diversity of Iranian AG1-IA of *Rhizoctonia solani* isolates using RAPD markers. **Iranian Journal of Plant Pathology** 44:215-223.
19. Khodayari M. Safaie N., and M. Shams-Bakhsh. 2008. Comparison of RAPD, ISSR and ERIC in study of genetic diversity of *Rhizoctonia solani* AG1-IA. **Modern Genetics Journal** 3 (2):37-46.
20. Mirzaei S., Mohamadi Goltapeh, E., Shams-Bakhsh M., Safaie N. and M. Chaichi. 2009. Genetic and phenotypic diversity among *Botrytis cinerea* isolates in Iran. **Journal of Phytopathology** 157: 474-482.
21. Abdoulazadeh J., Mohamadi Goltapeh, E., Javadi A. Shams-Bakhsh M., Zarei R. and Philips Ajl. 2009. *Barriopsis iraniana* and *Phaeobotryon cupressi*: two new species of the Botryosphaeriaceae from trees in Iran. **Persoonia** 23: 1-8.
22. Mosivand M., Rahimian H., and M. Shams-Bakhsh. 2009. Determination of relatedness among *Pseudomonas syringae* pv. *syringae* isolated from sugarcane, stone fruits and wheat. **Iranian Journal of Plant Pathology** 45:85-97.
23. Keshavarz T., Shams-Bakhsh M. and Sh. Nourinejad Zarghani. 2009. First report of *Apple chlorotic leaf spot virus* infection of apple trees in Iran. **Journal of Plant Pathology** 91(1):233.
24. Fabriki Ourang S., Shams-Bakhsh M., Jalali Javaran M. and J. Ahmadi. 2009. Analysis of Genetic Diversity of Iranian Melons (*Cucumis melo* L.) Using ISSR Markers. **Journal of Iranian Biology** 22(2): 271-281.
25. Khodayari M., N. Safaie and M. Shams-Bakhsh. 2009. Genetic diversity of Iranian AG1-IA isolates of *Rhizoctonia solani*, the cause of Rice sheath blight, using morphological and molecular markers. **Journal of Phytopathology** 157: 708-714.
26. Sepahpour S., Moieni A., Shams-Bakhsh M. and A. Baghizadeh. 2009. Effects of electric current value and time treatments on elimination of Carnation mottle virus and *in vitro* plantlet regeneration of carnation (*Dianthus caryophyllus*). **Acta Horticulturae** 829: 395-398.
27. Osdaghi E., Alizadeh A., Shams-Bakhsh M. and M. R. Lak. 2009. Evaluation of common bean cultivar/lines for resistance to common bean blight. **Phytopatologia Mediterranea** 48:461-468.
28. Jamalzade A., M. Shams-Bakhsh and H. Rahimian. 2009. Occurrence and Distribution of Shallow Bark Canker of Walnut Trees in Northern Provinces of Iran. **Journal of Plant Production** 16(2): 195-204.
29. Karimi E., N. Safaie and M. Shams-Bakhsh. 2009. Genetic diversity of *Sclerotinia sclerotiorum* isolates using rep-PCR marker. **Iranian Journal of Plant Pathology** 45(3): 199-212.

30. Osdaghi E., Shams-Bakhsh M., Alizadeh A., and M. R. Lak. 2010. Study on common bean seed lots for contamination with *Xanthomonas axonopodis* pv. *phaseoli* by BIO-PCR technique. **Journal of Agricultural Technology** 6(3):503-513.
31. Abrinbana M., Mozafari J. Shams-Bakhsh M., and R. Mehrabi. 2010. Genetic structure of *Mycosphaerella graminicola* populations from Iran. **Plant Pathology** 59: 829-838.
32. Falahi Charkhab N., Shams-Bakhsh M., and H. Rahimian. 2010. Genetic diversity among *Brenneria nigrifluens* strains in Iran. **European Journal of Plant Pathology** 128:303-310.
33. Baghaee S., Shams-Bakhsh M., Rahimian H. and N. Safaie. 2010. Phenotypic and genotypic diversity of pectolytic erwinias isolated from ornamental hosts in some northern parts of Iran. **Iranian Journal of Plant Pathology** 46:217-233.
34. Khodaygan P., Rahimain H., Shams-Bakhsh M. and A. Barzegar. 2010. Bacterial leaf spot of *Sisymbrium irio* incited by a closely similar pathovar to *Pseudomonas syringae* pv. *maculicola*. **Iranian Journal of Plant Pathology** 46:235-247.
35. Zahedi Tabarestani A., Shams-Bakhsh M. and N. Safaie. 2010. Distribution of three important aphid borne canola viruses in Golestan province. **Plant Protection Science** 41(2):251-259.
36. Shahryari, F. Safarnejad, M. R., Shams-Bakhsh M. and G. R. Salehi Jouzani. 2010. Toward immunomodulation of witches' broom disease of lime (WBDL) by targeting immunodominant membrane protein (IMP) of candidatus *Phytoplasma aurantifolia*. **Commun Agric Appl Biol Sci** 75(4):789-95.
37. Moslemkhany, K., Mozafari, J., Alizadeh, A., Shams-Bakhsh, M., and E. Mohamadi Goltapeh, 2011. Evaluation of potato cultivars for resistance to *Ralstonia solanacearum* under *in vitro* and greenhouse conditions. **Seed and Plant Improvement Journal** 26(4): 501-515.
38. Bayati S., Shams-Bakhsh M., and A. Moieni. 2011. Elimination of *Grapevine virus A* (GVA) by cryotherapy and electrotherapy. **Journal of Agricultural Science and Technology** 13:443-450.
39. Baghaee S., Rahimian H., Shams-Bakhsh M., Lopez-Sotanilla E., Antunez-Lamas M., and P. Rodriguez-Patenzuela 2011. Characterization of *Pectobacterium* species from Iran using biochemical and molecular methods. **European Journal of Plant Pathology** 129: 413-425.
40. Hedesh R.M., Shams-Bakhsh M., and J. Mozafari. 2011. Evaluation of common bean lines for their reaction to tomato yellow leaf curl virus-Ir2. **Crop Protection** 30: 163-167.
41. Osdaghi E., Shams-Bakhsh M. Alizadeh A., Lak M. R. and H. Hatami Maleki. 2011. Induction of resistance in common bean by *Rhizobium leguminosarum* bv. *phaseoli* and decrease of common bacterial blight symptoms. **Phytopatologia Mediterranea** 50 (1): 45-54.
42. Karimi E., N. Safaie and M. Shams-Bakhsh. 2011. Assessment of genetic diversity among *Sclerotinia sclerotiorum* populations in canola fields by rep-PCR. **Trakia Journal of Science** 9(2):62-68.
43. Shahryari F., Safarnejad M. R. and M. Shams-Bakhsh. 2011. Generation of a specific monoclonal recombinant antibody against "*Candidatus phytoplasma aurantifolia*" using phage display technology. **Bulletin of Insectology** 64: S75-S76.
44. Shahryari F., Safarnejad M. R., Shams-Bakhsh M. and S. Ataiee. 2011. Use of a recombinant protein for development of a DAS-ELISA serological kit for sensitive detection of witches'

broom disease of lime (WBDL) by targeting of immunodominant membrane protein (IMP) of *Candidatus* phytoplasma lime. **Bulletin of Insectology** 64: S43-S44.

45. Younesi B., Shams-Bakhsh M., Safaie N. and F. Khelgati Bana. 2011. Simultaneous detection of several important viruses in naturally infected potato plants using multiplex-RT-PCR in comparing with ELISA. **Modern Genetics Journal** 6: 17-26.
46. Falahi Charkhab N., Shams-Bakhsh M., Rahimian H. and P. Khodayegan. 2011. Identification of *Brenneria nigrifluens* isolates. **Iranian Journal of Plant Pathology** 47 (3): 263-277.
47. Shams-Bakhsh M., 2011. Silencing of RNA directed RNA polymerase 1 gene of tobacco leads to enhanced resistance to some plant viruses. **Iranian Journal of Plant Pathology** 47 (3): 239-248.
48. Karimi E., Safaie N., and M. Shams-Bakhsh. 2011. DNA polymorphism among mycelial compatibility groups of *Sclerotinia sclerotiorum* using ISSR marker. **Agricultural Biotechnology Journal** 2(2): 41-55.
49. Karimi E., N. Safaie and M. Shams-Bakhsh. 2011. Genetic diversity within mycelial compatibility groups of *Sclerotinia sclerotiorum* isolates using RAPD marker **Iranian Journal of Oil Plants** 2:75-89.
50. Azizi A., Shams-Bakhsh M., Mozaffari J, and R. Montazeri Hedesh. 2011. Completed sequences of a strain of *Tomato leaf curl virus* from Iran. **Iranian Journal of Virology** 5(3): 18-27.
51. Karimi E., N. Safaie and M. Shams-Bakhsh. 2012. Mycelial compatibility grouping and pathogenic diversity of *Sclerotinia sclerotiorum* (Lib.) de Bary populations on canola in Golestan province of Iran. **Journal of Agricultural Science and Technology** 14: 421-434.
52. Amini M., Safaie N., Salmani M. J., and M. Shams-Bakhsh. 2012. Antifungal activity of three essential oils against some phytopathogenic fungi. **Trakia Journal of Science** 10 (1):1-8.
53. Karimi E., N. Safaie and M. Shams-Bakhsh. 2012. Molecular genotyping of *Sclerotinia sclerotiorum* isolates from different region and host plants in Iran. **Archives of Phytopathology and Plant Protection** 45(8): 942-954.
54. Doustseddigh H., Rakhshandehroo F., and M. Shams-Bakhsh. 2012. Distribution of Arabis mosaic virus (ArMV) on grapevine and roses in Western and Eastern Azarbaijan provinces. **Plant Protection (Scientific Journal of Agriculture)** 34 (2):59-74.
55. Abrinbana M., Mozafari J. Shams-Bakhsh M., and R. Mehrabi. 2012. Resistance spectra of wheat genotypes and virulence patterns of *Mycosphaerella graminicola* isolates in Iran. **Euphytica** 186:75-90.
56. Salimi M., Shams-Bakhsh M. and N. Safaie. 2012. Expression of the tomato yellow leaf curl virus movement protein gene in *Escherchia coli*. **Trakia Journal of Science** 10(3):36-40.
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58. Moslemkhani, C. Mozafari, J., Shams-Bakhsh, M. and E. Mohammadi Goltapeh, 2012. Expressions of some defense genes in susceptible and resistant potato genotypes against *Ralstonia solanacearum* under *in Vitro* conditions. **Iranian Journal of Plant Pathology** 48(2):183-194.

59. Shirazi M., Mozaffari J. Rakhshandaroo F and M. Shams-Bakhsh 2012. Distribution of Tomato yellow leaf curl virus in Iran. **Agricultural Biotechnology Journal** 4(2):29 -41.
60. Rezaei K., Shams-Bakhsh M. and A. Alizadeh. 2012. Genetic diversity among *Xanthomonas citri* subsp. *citri* strains in Iran. **Journal of Plant Protection Research** 52(1):1-9.
61. Nourinejhad Zarghani S., Shams-Bakhsh M., Zand, N., Sokhandan Bashir N. and M. Pazhohande. 2012. Genetic analysis of Iranian population of Potato leafroll virus based on ORF 0. **Virus Genes** 45(3): 567-574.
62. Roohani R., Soltani Najafabadi M., Alavi S.M., Farrokhi N. and M. Shams-Bakhsh. 2012. Transcript analysis of some pathogenicity-related elements in an Iranian A* isolate of *Xanthomonas citri* subsp. *citri*. **Journal of Crop Protection** 1(4):337-347.
63. Nourinejhad Zarghani S., Shams-Bakhsh M., Sokhandan Bashir N. and M. Pazhohande. 2012. Identification and detection of Iranian isolates of Grapevine fanleaf virus using green-grafting and RT-PCR. **Iranian Journal of Plant Pathology** 48(3):127-129.
64. Hossenzadeh, S., and M. Shams-Bakhsh. 2012. Bacterial Flagella; Morphology, Assembly and Torque-Generating. **Cellular and Molecular News** 3(9):9-18.
65. Beiki F., Rahimian H., Mohamadi Goltapeh E., Shams-Bakhsh, M. et al. 2012. Phenotypic and pathogenicity characteristics of the agents causing citrus blast disease in the Northern provinces of Iran. **Journal of Plant Production** 43(2):211-222.
66. Nassaj Hosseini S. M., Shams-Bakhsh M., A. H. Salmania., and S. Yeh. 2012. Expression and purification of human interferon gamma using a plant viral vector. **Progress in Biological Science** 2(2):104-115.
67. Shahryari F., Shams-Bakhsh M., Safarnejad M. R., Safaie N. and S. Ataiee. 2013. Preparation of specific antibody against Immunodominant membrane protein (IMP) of Phytoplasma *Candidatus aurantifolia*. **Iranian Journal of Biotechnology** 11(1):14-21.
68. Hossenzadeh, S., Shams-Bakhsh M., and E. Hossenzadeh. 2013. Effects of Sub-bactericidal concentration of plant essential oils on pathogenicity factors of *Ralstonia solanacearum*. **Archives of Phytopathology and Plant Protection** 46(6):643-655. Q3
69. Hossenzadeh, S., Shams-Bakhsh and M., Yamchi A. 2013. A comparative study on effect of two different *aiiA* genes on pathogenicity factors of *Dickeya chrysanthemi* pv. *chrysanthemi*. **Archives of Phytopathology and Plant Protection** 46(12): 1468-1479.
70. Nourinejhad Zarghani S., Shams-Bakhsh M., Sokhandan Bashir N. and T. Wetzel. 2013. Molecular characterization of whole genomic RNA2 from Iranian isolates of *Grapevine fanleaf virus*. **Journal of Phytopathology** 161:419-425.
71. Nassaj-Hosseini S. M., Shams-Bakhsh M., Mehrvar M. and A. H. Salmania. 2013. Evolutionary characterization and population genetic of Iranian isolates of *Beet necrotic yellow vein virus* based on P25. **Journal of Agricultural Science and Technology** 15: 829-842. Q2
72. Dadrezaie S.T., Lababidi S., Nazari K., Mohammadi Goltapeh E., Afshari F., Alo F., Shams-bakhsh M., and N. Safaie. 2013. Molecular genetic diversity of Iranian populations of *Puccinia triticina*, the causal agent of wheat leaf rust. **American Journal of Plant Sciences** 4:1375-1386.

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75. Mojerlou, S., Safaie, N., Abbasi Moghadam, A. and M. Shams-bakhsh. 2013. Evaluation of some Iranian wheat landraces resistance against stem rust disease at seedling stage in the green house. **Plant Protection (Scientific Journal of Agriculture)** 35(4):67-81.
76. Khodaygan P., Rahimain H., Shams-Bakhsh M., Wiengart H. and M. Ullrich. 2013. Angular leaf spot of Sleepy Mallow incited by a pathovar of *Pseudomonas syringae*. **Iranian Journal of Plant Pathology** 49 (1):1-15.
77. Shahryari, F., Safarnejad, M.R., Shams-Bakhsh, M., Nolke, G. and Schillberg, S. 2013. Generation and expression on plants of a single-chain variable fragment antibody against the immunodominant membrane protein of *Candidatus* Phytoplasma aurantifolia. **Journal of Microbiology and Biotechnology** 23(8): 1047-1054.
78. Keshavarz T., Shams-Bakhsh M. and K. Izadpanah. 2013. Evaluation of reaction of some Iranian melon accessions to cucurbit yellow stunting disorder virus. **Iranian Journal of Plant Pathology** 49 (2):69-71.
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80. Eslahi, M. R., Tabatabaei, F. Safaie, N. and M. Shams-Bakhsh. 2013. Genetic diversity of *Ustilago hordei* isolates in Khuzestan province using RAPD analysis. **Plant Protection (Scientific Journal of Agriculture)** 36 (1):51-63.
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83. Rakhshandaroo F., Palukaitis P., and M. Shams-Bakhsh. 2013. The instability of the inhibition of the expression of genes involved in resistance to virus infection in transgenic plants using hairpin constructs. **Journal of Cellular and Molecular Research (Journal of Iranian Biology)** 26(3):401-415.
84. Mahmoudi Hashemi, H., Mohammad Soltani B., Hosseini Aghday F., Mosavizade A., Mahmoudi E. and M. Shams-bakhsh. 2014. Identification and expression pattern of PtGSP1 protein in wheat rust using YST system. **Modern Genetics Journal** 8(4): 349-356.
85. Keshavarz T., Shams-Bakhsh M., Izadpanah K. and M.A. Malboobi. 2014. Occurrence and genome analysis of Cucurbit chlorotic yellows virus in Iran **Journal of Phytopathology** 162: 523-526.

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88. Rahimiyan N., Moieni A. and M. Shams-bakhsh. 2014. Investigation on the efficiency of some virus-free elimination methods and their effect on the mini-tuber yield of free-virus plants in potato. **Iranian Journal of Field Crop Science** 44(4):623-634.
89. Hosseinzadeh M.R., Shams-Bakhsh M. and Sh. Kazempour-Osalou. 2014. Full-length genome sequencing and phylogeny of severe strain isolates of *Tomato yellow leaf curl virus* (TYLCV-IL) originating from *Datura stramonium* L. in Bojnurd region, Iran. **Agricultural Biotechnology Journal** 6(1):61-76.
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91. Shirazi M., Mozafari J. Rakhshandehroo F. and M. Shams-Bakhsh. 2014. Genetic diversity, host range, and distribution of tomato yellow leaf curl virus in Iran. **Acta Virologica** 58(2): 128-136.
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94. Sedighian N., Shams-Bakhsh M., Osdaghi E. and P. Khodayegan. 2014. Etiology and host range of bacterial leaf blight and necrosis of squash and muskmelon in Iran. **Journal of Plant Pathology** 96(3): 507-514.
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98. Abtahi F.S., Shams-Bakhsh M. and N. Safaie. 2014. First report of *apple stem pitting virus* infection of apple trees in Iran. **Iranian Journal of Plant Pathology** 50 (3):307-308.

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100. Keshavarz T. and M. Shams-Bakhsh. 2015. Incidence and distribution of *Apple chlorotic leaf spot virus* in the main fruits growing areas of Iran. **Archives of Phytopathology and Plant Protection** 48(4): 306-312.
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103. Samiee F., Safarnejad M.R., Hoseini Salekdeh Gh., Shams-bakhsh M. and F. Rakhshandehro. 2015. Production of recombinant phages containing specific antibody genes against Citrus tristeza virus. **Applied Entomology and Phytopathology** 82(2): 147-156.
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105. Yazdani R., Shams-Bakhsh M. and N. Safaie. 2015. Identification of bacterial leaf spot and soft rot agent on ornamental plants in Isfahan province. **Plant Protection (Scientific Journal of Agriculture)** 38(1): 91-100.
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