



CURRICULUM VITAE

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Academic Qualifications

MSc: Plant Pathology, Tarbiat-Modarres University, 1997.

BSc: Plant Protection, Plant Pathology, University of Tehran, 1992.

Research Interests

Cereal diseases

Seed-borne diseases

Induced resistance in cereal

Experience

From 1999 to date, Faculty Member (Research Scientist) in IRIPP.

Member of Iranian Phytopathological Society.

Scientific Courses

International workshop on Wheat Applied Genomics. Agricultural Biotechnology Research Institute of Iran, Iran (2009).

International Workshop on Marker Assisted Breeding for Disease Resistance in Wheat. Agricultural Biotechnology Research Institute of Iran, Iran (2009).

International Workshop on the Theory and Technology of Plant Protection for Sustainable Agriculture in 21st Century. Shenyang Agricultural University, China (2007).

Seed Health Testing. Seed and Plant Certification and Registration Research Institute (SPCRI) and International Center for Agricultural Research in Dry Areas (ICARDA), Iran (2005).

Gen Transfer and Expression in Plants. National Research Center for Genetic Engineering and Biotechnology, Iran (2002).

Selected Research Projects

Study on the efficacy of Insure Perform FS 12% (Triconazole 80 g/l+Pyraclostrobin 40 g/l) fungicide for controlling loose smut disease of wheat (2018-2020).

Study on wheat promising lines resistance to Fusarium head blight in field (In collaboration with CIMMYT, 2015-2021).

Study on the management of major wheat fungal diseases in Iran (Mega Project, 2004 -2010).

Study on the effect of low dosage of Alto-Combi fungicide in combination with emulsification oils against Fusarium head blight disease of wheat (2009-2011).

Determination of interaction between root lesion nematodes and root and crown rot fungi on wheat (2009-2011).

Study on the management of Fusarium head blight of wheat by using crop rotation (2007-2010).

Investigation on the possibility of induced resistance to wheat yellow rust in susceptible cultivars of bread wheat (2008-2010).

Publications

Book

Kazemi, H. 2002. Wheat diseases. In: From wheat grains to bread loaves. Board of authors, Tahsin publications, 316-357.

Tanha Maafi, Z., Nicol, J. M., **Kazemi, H.**, Ebrahimi, N., Gitty, M., Ghalandar, M., Mohammadi Pour, M., and Khoshkhabar, Z. 2009. Cereal cyst nematodes, root rot pathogens and root lesion nematodes affecting

cereal production in Iran. In: Cereal cyst nematodes: status, research and outlook. Riley, I. T., Nicol, J. M. and Dababat, A. A. (Eds.), CIMMYT, 51-55.

Kazemi, H. and Momeni, H. 2015. Major wheat fungal diseases. In: Handbook of wheat. Board of authors, Agriculture education publication, 198-227.

Momeni, H., **Kazemi, H.**, Ranjbar-Aghdam, H. and Hadizadeh. M. H. 2016. Corn Handbook: Plant Protection. Iranian Research Institute of Plant Protection (IRIPP) pub., 136 pp.

Papers

Naseri, B. and **Kazemi, H.** 2020. Structural characterization of stripe rust progress in wheat crops sown at different planting dates. Heliyon, 1-7.

Momeni, H., Razavi, M. and **Kazemi, H.** 2018. Occurrence of wheat tan spot in Ardabil province. Applied Entomology and Phytopathology, Vol.85 (2), 279-281.

Razavi, M., Dehghan, M.A., Safavi, S.A., Barari, H., Torabi, M., Karimi Jashni, M. and **Kazemi, H.** 2009. Evaluation of the field and seedling resistance of some advanced and elite lines of wheat to *Blumeria graminis* f.sp. *tritici*, cause of wheat powdery mildew in Iran. Applied Entomology and Phytopathology, Vol.77 (1), 133-150.

Kazemi, H., Azadbakht, N. and Mobaraki, D. 2007. New hosts and distribution areas in Iran: Take-all disease of wheat from Lorestan province. Iranian Journal of Plant Pathology, Vol.43 (1), 47.

Razavi, M., Torabi, M., Karimi Jashni, M. and **Kazemi, H.** 2006. Virulence variability among isolates of *Blumeria graminis* f.sp. *tritici* from wheat in Iran. Phytopathology 96:S96.

Dehghani, A., **Kazemi, H.** and Zade Dabagh, G. 2006. Occurrence of Septoria glume blotch of bread wheat in the Khuzestan province. Iranian Journal of Plant Pathology, Vol.42 (3), 561-562.

Razavi, M., Torabi, M., Karimi Jashni, M. and **Kazemi, H.** 2005. Pathogenic diversity among isolates of *Blumeria graminis* f.sp. *tritici* from wheat in Iran. Phytopathology 95:S87.

Kazemi, H. and Shimi, P. 2005. Determination of the host range of *Fusarium moniliforme* isolated from winter wild oat (*Avena ludoviciana*) in Iran. Iranian Journal of Weed Science, Vol.1(1), 67-72.

Mohammadi, M. and **Kazemi, H.** 2002. Changes in peroxidase and polyphenol oxidase activities in susceptible and resistant wheat heads inoculated with *Fusarium graminearum* and induced resistance. Plant Science, 162:491-498.

Aghajani, M. A., **Kazemi, H.**, Dehghan, M. A., Salati, M., and Ershad, J. 2002. The occurrence of Septoria glume blotch on the wheat (*Triticum aestivum* L.) in Golestan province. Iranian Journal of Plant Pathology, Vol.38 (1-2), 147-148.

Congress and Meetings

Kazemi, H., Barari, H., Razavi, M., Momeni, H. and Sarkari. S. 2018. Wheat promising lines resistance to Fusarium head blight in field. Proceedings of the 23th Iranian plant protection congress, 27-30 August, Gorgan, Iran, P 344.

Kazemi, H., Momeni, H. Barari, H. and Sarkari. S. 2018. Determination of pathogenicity groups of *Fusarium graminearum* in corn and wheat. Proceedings of the 23th Iranian plant protection congress, 27-30 August, Gorgan, Iran, P 346.

Momeni, H., **Kazemi, H.**, Barari, H. and Sarkari. S. 2018. Molecular evaluation of *Fusarium graminearum* isolates from wheat and corn. Proceedings of the 23th Iranian plant protection congress, 27-30 August, Gorgan, Iran, P 340.

Momeni, H., **Kazemi, H.**, Rabaninasab, H. and Razavi, M. 2018. Wheat promising lines resistance to tan spot and spot blotch diseases in field. Proceedings of the 23th Iranian plant protection congress, 27-30 August, Gorgan, Iran, P 342.

Kazemi, H. and Momeni, H. 2016. First report of *Fusarium graminearum* and its teleomorph from maize in Moghan plain. Proceedings of the 22th Iranian plant protection congress, 27-30 August, Karaj, Iran, Vol. 2, P 148.

Kazemi, H. 2016. Study on the efficacy of Flutriafol+Carbendazim SC on septoria leaf blotch of wheat in Iran. 9th International Symposium on Septoria Diseases of Cereals, 7-9 April 2016, Paris, France, THU-17.

Kazemi, H., Momeni, H. and Barari, H. 2016. Study on the importance of Gibberella ear rot of corn in North and North-West of Iran. Proceedings of the 22th Iranian plant protection congress, 27-30 August, Karaj, Iran, Vol. 2, P 141.

Momeni, H. and **Kazemi, H.** 2016. Survey on corn ear rot, stalk rot and seedling blight with the causal agent of *Stenocarpella maydis* in Iran. Proceedings of the 22th Iranian plant protection congress, 27-30 August, Karaj, Iran, Vol. 2, P 140.

Momeni, H., **Kazemi, H.** and Barari, H. 2016. Evaluation of wheat resistance to tan spot disease with emphasis on varieties prevalent in northern climate of country. Proceedings of the 22th Iranian plant protection congress, 27-30 August, Karaj, Iran, Vol. 2, P 301.

Kazemi, H., Alavi, V. and Sarkari, S. 2014. Study on the management of Fusarium head blight of wheat by using of crop rotation. Proceedings of the 21th Iranian plant protection congress, 23-26 August, Urmia, Iran, Vol. 2, P 155.

Kazemi, H. and Mahdavi, V. 2014. Spectrophotometric determination of Imidacloprid insecticide in potato samples by Rank Annihilation Factor Analysis (RAFA) method and compared with HPLC. 20th Analytical Chemistry Conference of Iran. Isfahan University of Technology.

Rajaei, S. and **Kazemi, H.** 2012. The effect of two new fungicides Amistar Xtra and Falcon on yellow rust of wheat in Fars province. Proceedings of the 20th Iranian plant protection congress, 25-28 August, Shiraz, Iran, Vol. 2, P 218.

Kazemi, H., Eslahi, M. R., Nasrollahi, M., Safaee, D. and Hosseinian, L. 2010. Study on distribution and importance of flag smut disease of wheat in some provinces of Iran. Proceedings of the 19th Iranian plant protection congress, 31 July-3 August, Tehran, Iran, Vol. 2, P 319.

Kazemi, H., Hosseinian, L. and Forutan, A. 2010. Study on possibility of induced resistance to yellow rust disease in susceptible cultivar of bread wheat in controlled conditions. Proceedings of the 19th Iranian plant protection congress, 31 July-3 August, Tehran, Iran, Vol. 2, P 904.

Ashrafi, J. and **Kazemi, H.** 2010. Study on distribution and importance of flag smut disease of wheat in Ilam province. Proceedings of the 19th Iranian plant protection congress, 31 July-3 August, Tehran, Iran, Vol. 2, P 214.

Forutan, A., **Kazemi, H.**, Shetab Booshehri, S.M. and Rajaei, S. 2010. Study on the induced resistance to wheat yellow rust. Proceedings of the 19th Iranian plant protection congress, 31 July-3 August, Tehran, Iran, Vol. 2, P 895.

Safae, D., Nasrollahi, M., Shetab Booshehri, S.M., Razavi, M., **Kazemi, H.**, Younesi, H. and Sheikholeslami, M. 2010. Introduction of two new fungicides Lospel and Lamardor to control common bunt disease of wheat under rainfed conditions. Proceedings of the 19th Iranian plant protection congress, 31 July-3 August, Tehran, Iran, Vol. 2, P 868.

Broukanlu Madlu, P., Behboudi, K., Tohidfar, M. and **Kazemi, H.** 2010. Role of plant genotype in population and biocontrol activity of fluorescent pseudomonas. Proceedings of the 19th Iranian plant protection congress, 31 July-3 August, Tehran, Iran, Vol. 2, P 405.

Nasrollahi, M., Safae, D., Shetab Booshehri, S.M., Razavi, M., **Kazemi, H.**, Sheikholeslami, M. and Younesi, H. 2010. Introduction of two new fungicides Lospel and Lamardor to control common bunt disease of wheat under irrigated conditions. Proceedings of the 19th Iranian plant protection congress, 31 July-3 August, Tehran, Iran, Vol. 2, P 950.

Kazemi, H., Azadbakht, N. and Mobaraki, D. 2008. The occurrence of Take-all disease in Lorestan province. Proceedings of the 18th Iranian plant protection congress, 24-27 Aug., Hamedan, Iran, Vol. 2, P 231.

Kazemi, H., Dehghani, A., Noorollahi, Kh. And Kolbadi, A. 2008. Study on the effect of Flutriafol + Carbendazim and Propiconazole on Septoria leaf blotch of wheat. Proceedings of the 18th Iranian plant protection congress, 24-27 Aug., Hamedan, Iran, Vol. 2, P 270.

Kazemi, H., Forutan, A., Aghajani, M. A. and Karbalaee-Khiavi, H. 2008. Study on the effect of Flutriafol + Carbendazim, Propiconazole and Tebuconazole on powdery mildew of wheat. Proceedings of the 18th Iranian plant protection congress, 24-27 Aug., Hamedan, Iran, Vol. 2, P 344.

Razavi, M., Torabi, M., Karimi Jashni, M. and **Kazemi, H.** 2008. Study on the physiological races of *Blumeria graminis* f.sp. *tritici*, cause of wheat powdery mildew in Iran. Proceedings of the 18th Iranian plant protection congress, 24-27 Aug., Hamedan, Iran, Vol. 2, P 48.

Forutan, A., Omati, F., Shetab Booshehri, S.M., Rajae, S., Safae, D. and **Kazemi, H.** 2008. Study on the yellow rust damage in various wheat cultivars by artificial inoculation at different growth stages in the country. Proceedings of the 18th Iranian plant protection congress, 24-27 Aug., Hamedan, Iran, Vol. 2, P 46.

Razavi, M., Dehghan, M.A., Safavi, S.A., Barari, H., Torabi, M., Karimi Jashni, M. and **Kazemi, H.** 2008. Evaluation of the field and seedling

resistance of some advanced and elite lines of wheat to *Blumeria graminis* f.sp. *tritici*, cause of wheat powdery mildew in Iran. Proceedings of the 18th Iranian plant protection congress, 24-27 Aug., Hamedan, Iran, Vol. 2, P 233.

Kazemi, H., Aghajani, M. A., Dehghani, A., Forutan, A., Rajaei, S. and Nuralahi, K. 2006. Study on distribution and importance of Septoria glum blotch of wheat in some provinces of Iran. Proceedings of the 17th Iranian plant protection congress, 2-5 Sept., Tehran, Iran, Vol. 2, P 1.

Bahrami Kamangar, S., Bostani, K., **Kazemi, H.** and Moradi, M. 2006. Etiology of root and foot rot in wheat farms of Kurdistan province. Proceedings of the 17th Iranian plant protection congress, 2-5 Sept. 2, Tehran, Iran, P 23.

Kazemi, H., Foroutan, A., Aghajani, M. A., and Karbalaee-Khiavi, H. 2004. Evaluation of some foliar fungicides for controlling powdery mildew of wheat. Proceedings of the 16th Iranian plant protection congress, Aug. 28- Sept. 1, Tabriz, Iran, P 26.

Kazemi, H. and Asghari, M. R. 2002. Modified filter and centrifuge (FC) technique, an efficient method for extracting *Tilletia indica* teliospores from contaminated wheat seeds . Proceedings of the 15th Iranian plant protection congress, Sept. 7-11, Kermanshah, Iran, P 36.

Kazemi, H. 2002. Fusarium species associated with root and crown of wheat in Tehran province. Proceedings of the 15th Iranian plant protection congress, Sept. 7-11, Kermanshah, Iran, P 35.

Kazemi, H. and Mohammadi, M. 2002. Increased activities of defence-related oxidoreductases, peroxidase and polyphenol oxidase , in wheat heads inoculated with *Fusarium graminearum* and induced resistance to Fusarium head blight. Abstracts Book of The first international wheat congress, Des. 7-10, Tehran, Iran, P 13.

Aghajani, M. A., **Kazemi, H.**, Dehghan, M. A., Salati, M., and Ershad, J. 2002. The occurrence of Septoria glume blotch on the wheat (*Triticum aestivum* L .) in Golestan province . Abstracts Book of The first international wheat congress, Des. 7-10, Tehran, Iran, P 37.

Shimi, P and **Kazemi, H.** .2000. *Fusarium lateritium*: A potential mycoherbicide for wild oat (*Avena ludoviciana*) in Iran. Proceedings of Seventh Arab Congress of Plant Protection, Oct. 22-26, Amman, Jordan, P 453.

Kazemi, H., and Shimi, P. 2000. The possibility of biological control of wild oat (*Avena ludoviciana* Dur.) with a fungal pathogen. Proceedings of 14th Iranian Plant Protection Congress, Sept. 5-8, Isfahan, Iran, P 242.

Kazemi, H., and Shimi, P. 2000. Isolation of *Alternaria alternata* (Fr.) Keissler: from field bindweed and its pathogenicity to various plants. Proceedings of 14th Iranian Plant Protection Congress, Sept. 5-8, Isfahan, Iran, P 385.

Kazemi, H., and Shimi, P.1999. *Fusarium moniliforme*: A potential mycoherbicide for wild oat (*Avena ludoviciana*) in Iran. Proceedings of 17th Asian –Pacific weed science conference, Nov. 22-27, Bangkok, Thailand, pp 216-219(Full paper).

Kazemi, H., Mohammadi, M., and Sharifi- Tehrani, A. 1998. Activity and the role of polyphenol oxidase in resistance mechanism of wheat against Fusarium head blight. Proceedings of 13th Plant Protection Congress, Aug. 23-27, Karaj, Iran, P 22.

Kazemi, H., Mohammadi, M., and Sharifi- Tehrani, A. 1998. Specific activity and the role of peroxidase in disease resistance mechanism of wheat against Fusarium head blight. Proceedings of 13th Plant Protection Congress, Aug. 23-27, Karaj, Iran, P 23.

Kazemi, H., Mohammadi, M., and Sharifi- Tehrani, A. 1998. Induced resistance in wheat heads against Fusarium head blight. Proceedings of 13th Plant Protection Congress, Aug. 23-27, Karaj, Iran, P 24.

Extension

Karbalaei-Khiavi, H., **Kazemi, H.** and Rashidi, Y. 2021. Management of Fusarium head blight in irrigated wheat fields. Agriculture education pub., 20 pp.

Momeni, H. and **Kazemi, H.** 2021. Plant disease management in conservation agriculture. Technical publication, IRIPP pub., 50 pp.

Kazemi, H. and Momeni, H. 2020. Comparison of wheat diseases management in Iran with other countries. Agriculture education pub., 31 pp.

Jafari, H., **Kazemi, H.** and Momeni, H. 2020. Chemical control management of stripe rust disease of wheat. Technical publication, IRIPP pub., 14 pp.

Kazemi, H. and Momeni, H. 2017. Management of yellow rust disease of

wheat. Agriculture education pub., 8 pp.

Momeni, H. **Kazemi, H.**, Zamani, M., Jalali, S. and Kamram, R. 2016. Management of corn smut disease caused by *Ustilago maydis*. Agriculture education pub., 14 pp.

Aghajani, M. A., Razavi, M., Dehghan, M. A., **Kazemi, H.** Rabani-Nasab, H. and Kia, S. 2016. Guide for monitoring, scouting and evaluation of important diseases of wheat and barley in the field and greenhouse. IRIPP pub., 51 pp.

Aghajani, M. A., Foroutan, A. and **Kazemi, H.** 2016. Management of Fusarium head blight of wheat. Applied Instruction, IRIPP pub., 15 pp.

Razavi, M., **Kazemi, H.**, Dehghan, M. A., Safavi, S. and Barari, H. 2016. Management of powdery mildew disease of wheat. Applied Instruction, IRIPP pub., 12 pp.

Kazemi, H. and Momeni, H. 2015. Management of stripe rust disease of wheat. Applied Instruction, IRIPP pub., 12 pp.

Momeni, H., Razavi, M., **Kazemi, H.** and Rayatpanah, S. 2015. Management of wheat tan spot disease. Applied Instruction, IRIPP pub., 12 pp.

Momeni, H. **Kazemi, H.**, Zamani, M., Jalali, S. and Kamram, R. 2015. Management of corn common smut disease caused by *Ustilago maydis*. Applied Instruction, IRIPP pub., 11 pp.

Kazemi, H. and Razavi, M. 2007. The care of wheat fields against stem rust disease. Applied Instruction, IRIPP pub., 12 pp.

Software and E-publications

Kazemi, H. 2021. Wheat Diseases. A part of Super Application, IRIPP and AIEE (in press).

Razavi, M., **Kazemi, H.**, and Momeni, H. 2018. Diagnosis and Management of Wheat Diseases. Application 42. Deputy of education and extension, AREEO.

Other Publication

Nicol, J., Tanha Maafi, Z., **Kazemi, H.**, Ebrahimi, N. and Khoshkhabar, Z. 2004. Report of Cereal Root Pathogen Soil Survey in Iran. CIMMYT. 1-12.