

Curriculum Vitae

1- Name (First Name and Family Name): Ali Akbar Ghanbari

2- Date of Birth (day- month- year): 26/3/1974

3- Place of Birth: Marand, Iran

4- Scientific Grade: Associate Professor

5- Contact Address: Mahdasht Road, Seed and Plant Improvement Institute, Karaj, Iran

6- Phone: +98 26 36703785

7- E-mail: aghanbari2004@yahoo.com

8- Academic qualifications:

Graduation	University name	Date of graduation	Field of study	Place of education
BSc	Karaj	1997	Agronomy and Plant Breeding	Karaj, Iran
MSc	Mazandaran	1999	Agronomy	Sari, Iran
PhD	Tabriz	2011	Crop Physiology	Tabriz, Iran

9- Recent and past working places:

No.	Working place's name	Address	Phone
1	Seed and Plant Improvement Institute (SPII)	Mahdasht Road, Karaj, Iran	+98 26 36703785
2	National Bean Research Station of Khomein	Qurchibashi Road, Khomein, Iran	+98 866 2615697-8

10- Research trends:

- Food Legumes and Vegetables Breeding
- Physiology of Stresses in Food Legumes and Vegetables

11- Supervised and /or advised MSc-s thesis and / or PhD-s dissertations:

- 10 subject (PhD and MSc supervisor)
- 8 subject (MSc advisor)

12- Publication:

A- Paper-s (in national and/or international journals)

- **Ghanbari, A.A.** 2021. Determination of plant density and appropriate planting time of lima bean (*Phaseolus lunatus*) in Guilan province. Agric. Sci. Sustain. Prod. Under publication.
- **Ghanbari, A.A.** 2021. Grain yield efficiency index, a criterion for selecting the best bean genotypes in drought stress conditions. Iranian J. Field Crop Sci. Under Publication.
- Kooshki, M.H., M. Kamel, A. Ghadiri, P. Salehi, R. Ahmadvand, **A.A. Ghanbari**, H. Ghaffari Khaligh, E. Byzaei, M. Nasrolahi and A. Mohseni. 2020. New cultivar of red beans "Dadfar" with high yield and suitable for cultivation in temperate and cold regions. J. "AREEO Reflection Effectiveness". 9: 16-17 (In Farsi).
- Asadi, B., E. Byzaei, H. Ghaffari Khaligh, H.R. Dorri, **A.A. Ghanbari** and R. Ahmadvand. 2020. Ofogh, a new variety of early maturity red bean with mechanized harvesting capability. J. "AREEO Reflection Effectiveness". 2(7): 12-13 (In Farsi).
- **Ghanbari, A.A.** 2019. Bean-corn intercropping and its economic value. Moravej. 156: 27-34 (In Farsi).
- **Ghanbari, A.A.**, S.H. Mousavi and M. Taheri Mazandarani. 2017. Effect of water deficit on seed yield and accumulation of seed minerals in common bean genotypes. Seed Plant Prod. J. 33-2: 267-284 (In Farsi).

- Mohtashami, M., A. Naderi, **A.A. Ghanbari**, M. Alavi Fazel and Sh. Lak. 2017. Study of yield and yield components of red beans in condition of drought stress and seed pre-treatment with growth regulators. Iran. J. Plant Ecophysiol. 29: 53-64 (In Farsi).
- Mohtashami, M., A. Naderi, **A.A. Ghanbari**, M. Alavi Fazel and Sh. Lak. 2016. Effect of seed pretreatment with growth regulators on seed yield and yield components of common beans (*Phaseolus vulgaris* L.). Turk. J. Field Crops. 21(2): 313-317.
- Mohtashami, M., A. Naderi, **A.A. Ghanbari**, M. Alavi Fazel and Sh. Lak. 2016. Biochemical characteristics of red bean (*Phaseolus vulgaris* L.) genotypes as affected by seed pre-treatment with growth regulators. Iran. J. Plant Physiol. 6(2): 1643-1649.
- Dorri, H.R., B. Asadi, A. Ghadiri, M.R. Lak, M. Yousefi, **A.A. Ghanbari** et al. 2016. Ghaffar, a new variety of Chitti bean. Res. Archiv. Field Hortic. Crops. 5(2): 143-155.
- **Ghanbari, A.A.** 2015. Developmental stages and phenology of common bean genotypes under normal irrigation and water deficit conditions. Agron. J. (Pajouhesh & Sazandegi). 107: 190-199 (In Farsi).
- **Ghanbari, A.A.**, S.H. Mousavi and M. Pessarakli. 2015. Accumulation of reserve compounds in common bean seeds under drought stress. J. Plant Nutr. 38: 609-623.
- Keshavarz, S., M. Bagheri., P. Jafari and **A.A. Ghanbari**. 2013. Genetic diversity of Iranian native cucumber populations. Seed Plant Improv. J. 29(2): 227-241 (In Farsi).
- **Ghanbari, A.A.**, S.H. Mousavi, A. Mousapour Gorji and I. Rao. 2013. Effects of water stress on leaves and seeds of bean (*Phaseolus vulgaris* L.). Turk. J. Field Crops. 18(1): 73-77.
- **Ghanbari, A.A.**, M.R. Shakiba, M. Toorchi and R. Choukan. 2013. Nitrogen changes in the leaves and accumulation of some minerals in the seeds of red, white and Chitti beans (*Phaseolus vulgaris*) under water deficit conditions. Aust. J. Crop Sci. 7(5): 706-712.
- Mousavi, S.H., M.R. Hassandokht, R. Choukan, **A.A. Ghanbari** and A. Papini. 2013. Genetic diversity of Iranian lettuce (*Lactuca sativa* L.) accessions revealed by cytological traits. Caryologia. 66(1): 41-48.
- **Ghanbari, A.A.**, M.R. Shakiba, M. Toorchi and R. Choukan. 2013. Morpho-physiological responses of common bean leaf to water deficit stress. Eur. J. Exp. Biol. 3(1): 487-492.
- Nami, F., M.R. Shakiba, S.A. Mohammadi and **A.A. Ghanbari**. 2012. Yield and yield components affected by leaf water status in field-grown common bean genotypes under two contrasting irrigation regimes. Int. J. Agric. Crop Sci. 4 (21): 1599-1606.
- Beyzaei, E., H.R. Dorri, **A.A. Ghanbari** et al. 2012. Sadri, a new large seed Chitti bean cultivar suitable for cultivation in temperate- cold areas of Iran. Seed Plant Improv. J. 28: 335-337 (In Farsi).
- Dorri, H.R., E. Beyzaei, **A.A. Ghanbari** et al. 2012. Dorsa, a new white been cultivar, tolerant to two spotted spider Mite, for cultivation in temperate - cold areas of Iran. Seed Plant Improv. J. 28: 155-157 (In Farsi).
- Taheri Mazandarani, M., Beyzaei, E., Dorri, H.R., **Ghanbari, A.A.**, Salehi, P., Taheriyoon, G., Mohammadkhani, R., Shahraeen, N., and Hassani Mehraban, A. 2010. Shokoufa, a new high yielding white bean cultivar for cultivation in temperate and cold areas of Iran. Seed Plant Improv. J. 26: 141-143 (In Farsi).
- Taheri Mazandarani, M., Beyzaie, E., Dorri, H.R., **Ghanbari, A.A.**, Salehi, P., Taheriyoon, G., Mohammadkhani, R., Shahraeen, N., and Hassani Mehraban, A. 2010. Pak, a new white bean cultivar suitable for mechanized harvesting. Seed Plant Improv. J. 26: 145-147 (In Farsi).
- Jafari, A.R., Ardakani, M.R., Dorri, H.R., **Ghanbari, A.A.**, and Elkaee, M.N. 2010. Effect of plant spacing and plant density on yield and yield components of two white bean (*Phaseolus vulgaris* L.) promising lines in presence and absence of weeds. Iran. J. Field Crops Res. 8: 34-41 (In Farsi).
- Lak, M.R., **Ghanbari, A.A.**, Dorri, H.R. and Ghadiri, A. 2009. Effect of planting date on seed yield and Fusarium root rot disease severity in Chitti bean in Khomein. Agron. Seed Plant J. 25: 273-284 (In Farsi).
- **Ghanbari, A.A.**, and Beyzaei, E. 2007. Study and yield comparison of white bean lines and determination of correlation between traits. J. Agric. Sci. 13: 629-638 (In Farsi).
- **Ghanbari, A.A.**, and Taheri Mazandarani, M. 2004. Responses of bean genotypes to different row spacings. J. Agric. Sci. 10: 139-148 (In Farsi).
- **Ghanbari, A.A.**, and Taheri Mazandarani, M. 2003. Effects of planting arrangement and weed control on yield and yield components of red bean (*Phaseolus vulgaris* L.) cv. Akhtar. Seed Plant J. 19: 37-47 (In Farsi).

- **Ghanbari, A.A.**, and Taheri Mazandarani, M. 2003. Effects of sowing date and plant density on yield of spotted bean. Seed and Plant J. 19: 483-496 (In Farsi).
- **Ghanbari, A.A.**, Hassani Mehraban, A., Taheri Mazandarani, M. and Dorri, H.R. 2002. Study of dry and wet planting effects on grain yield of spotted bean (*Phaseolus vulgaris* L.) genotypes. Iran. J. Agron. Sci. 4: 59-66 (In Farsi).

B- Book –s:

- Mahrokh, A., Najafian, G., Moghaddam, A., **Ghanbari, A.A.**, Golzardi, F., Esmailzadeh Moghaddam, M., et al. 2020. Water efficiency promotion program in some crops and vegetables. AREEO, Iran. pp. 362 (In Farsi).
- Omid, A.H., Orazizadeh, M.R., Beyzaei, E., Roshani, G., Taleghani, D., Alinia, F., Golkari, S., **Ghanbari, A.A.**, Mahmoodi, M., Moghaddam, A. and Najafian, G. 2017. Agronomic cultivars (past and future). AREEO, Iran. pp. 124 (In Farsi).
- **Ghanbari, A.A.**, Mahmoodi, M., Beyzaei, E., et al. 2016. Health and safety: genetic resources. AREEO, Iran. pp. 212 (In Farsi).
- **Ghanbari, A.A.**, Mahmoodi, M., Beyzaei, E., et al. 2016. Health and safety, Volume I: release of agronomic cultivars. AREEO, Iran. pp. 236 (In Farsi).
- **Ghanbari, A.A.**, Mahmoodi, M., Beyzaei, E., et al. 2016. Health and safety, Volume II: release of garden cultivars. AREEO, Iran. pp. 32 (In Farsi).
- Dorri, H.R., **Ghanbari, A.A.**, Lak, M.R. and Bani Jamali, M. 2008. Guide Bean (Plantation, Cultivation, Harvesting). Educational Technology Services Bureau, Iran. pp. 124 (In Farsi).
- Mazaheri, D. and **Ghanbari, A.A.** 2004. Carbon dioxide and plant responses. Educational Technology Services Bureau, Iran. pp. 259 (In Farsi).

13- Research designs and / or projects: (As executor and coworker; 5 last years)

A- Executor

- Evaluation and selection in the F2-F3 segregation populations of green beans
- Hybridization between pea (*Pisum sativum* L.) genotypes and formation of initial population
- Hybridization between green bean genotypes and formation of initial population
- Evaluation of promising green bean lines (KS10071 and KS940102) in the farmer's conditions of Alborz province
- Evaluation of promising green bean lines (KS940144 and KS10008) in the farmer's conditions of Alborz province
- Evaluation of adaptability of green bean (*Phaseolus vulgaris* L.) lines in regional yield trials
- Evaluation of adaptability of PachBaghela (*Phaseolus vulgaris*) lines in regional yield trial of Guilan province
- To evaluate the possibility of planting Lima bean (*Phaseolus lunatus*) in Guilan and Khouzestan provinces
- Preliminary evaluation of selected bean lines suitable for dual-purpose (green pods and dry seeds) cultivation
- Purification and evaluation of Pach Baghala (*Phaseolus vulgaris*) populations for cultivar(s) release
- Evaluation and preliminary yield comparison of green bean (*Phaseolus vulgaris*) lines
- Evaluation of common bean (*Phaseolus vulgaris* L.) germplasm to identify suitable green bean genotypes

B- Coworker

- Comparison of water productivity, yield and forage quality of cowpea, mung bean and guar under different irrigation regimes
- Evaluation of the response of promising green bean and PachBaghala lines to bean common mosaic virus (BCMV) in greenhouse conditions
- Evaluation of superior lines of mung bean (*Vigna radiata*) genotypes in terms of forage yield
- Assessment of diversity in agromorphological traits of cowpea accessions of NPGBI
- Assessment of quantitative and qualitative characteristics and feasibility intraspecific crossing of Iranian Lettuce genotypes to Iceberg lettuce for using in hybridization programs
- Evaluation of yield adaptability of Chitti bean advanced lines under drought stress conditions

- Evaluation of yield in the advanced Chitti and red bean lines under normal irrigated and drought stress conditions
- Crossing between commercial Iceberg lettuce lines to form the base population and evaluation of F1 generation
- Primary characterization, multiplication and registration of ICARDA lentil elite nursery
- Primary characterization, multiplication and registration of ICARDA chickpea elite nursery
- Evaluation of the reaction of promising common bean lines to Bean common mosaic virus (BCMV) in greenhouse conditions
- Evaluation and preliminary yield comparison of bean (*Phaseolus vulgaris*) lines
- Investigation and identification of favorable varieties of Iceberg lettuce (*Lactuca sativa* L.) for use in breeding programs
- Agronomic and economic assessment of industrial and conventional method in Lettuce production in the spring and summer cultivation (on farm)

14- Seminars and/or Congress (internal, national and international):

More than 100 articles in:

- Iranian Crop Science Congress
- Iranian Pulse Crops Symposium
- Iranian Plant Protection Congress
- Iranian Horticultural Science Congress
- Iranian Genetic Congress
- International Crop Science Congress
- ...

15- Cultivar release (As breeder / participation):

A- Breeder

- Green bean: Ariyan (2021); Sepehr (2021)

B- Participation in the cultivar release

- Chitti bean: Saleh (2016); Ghaffar (2015); Koosha (2014); Sadri (2010)
- Red bean: Ofogh (2017); Dadfar (2017); Yaghoot (2016)
- White bean: Almas (2015); Dorsa (2010); Pak (2008); Shokoofa (2008)

16- Executive responsibilities:

- Researcher responsible for the research of the irrigated pulse crops, SPII, Iran (since 2006)
- Deputy Director of Planning and Support, SPII, Iran (2017-2020)
- Head of Research and Technical Services Department, SPII, Iran (2014-2017)
- Deputy Director of Vegetables and Irrigated Pulse Crops Department, SPII, Iran (2013-2014)
- Member of the working group for organizing research laboratories, AREEO, Iran (2015-2018)
- Member of the working group for organizing research stations, AREEO, Iran (2016-2018)
- Responsible for the plan of economic strength of food legumes, AREEO, Iran (since 2015)
- Member of the Seed Committee, Basic Products Office, Ministry of Agriculture – Jihad, Iran (2009)
- Responsible and the crop production Committee member, drafting the Strategic Plan for Pulse Crops Research, AREEO, Iran (2008-2010)
- Member of the Committee, drafting the Strategic Plan for Seed Research, AREEO, Iran (2007)