

Curriculum vitae



Personal Information

Name: Babak **Family Name:** Nakhoda **Date of Birth:** May 30, 1966
Place of Birth: Tehran-Iran **Sex:** Male **Marital Status:** Married

Spouse:
Name: Maasoumeh **Family Name:** Bahrami **Date of Birth:** August 25, 1969

Son:
Name: Alireza **Family Name:** Nakhoda **Date of Birth:** February 26, 2003

Daughter:
Name: Niki **Family Name:** Nakhoda **Date of Birth:** November 3, 2009

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Educational Background

Year	Institute	Degree	Field of Study
1981-1985	Dr. Shariati High School	Diploma	Natural Sciences
1986-1990	Guilan University	B.Sc.	Agronomy
1994-1997	Tarbiat Modarres University	M.Sc.	Agronomy & Crop Physiology
2003-2008	University of the Philippines, Los Baños	PhD	Genetics, Molecular Biology and Biotechnology

MSc. Thesis:

Evaluation of the effects of water stress and cutting on growth parameters, forage yield & quality of pearl millet (*Pennisetum americanum* L. Leek Var. *Nutrifeed*).

Ph.D. Thesis:

Phenotypic analysis and gene expression profiling of rice (*Oryza sativa* L.) mutants with altered responses to salt stress.

Working Experiences

Year	Company/Institute	Position
1990 -1992	Haft-Tappeh Sugarcane Agro-Industry	Trainee
1992 -1993	Karoon Sugarcane Agro-Industry	Expert
1993 -1994	Sugarcane Development and by products Company	Trainer and Expert
1994 - 2003	Agricultural Biotechnology Research Institute (ABRII)	Researcher, Crop Physiologist (Drought and salinity stresses)
1999 - 2003	ABRII	Head, Technical Services and Research Support Dept., International Affairs
2003 - 2008	International Rice Research Institute (IRRI)	PhD scholar
2008-present	ABRII	Faculty Member, Scientist, Crop physiologist
2012-2014	ABRII	Head, Public Affairs & International Cooperation Office
2012-2014	ABRII	Coordinator ECO-ABN
2014-present	ABRII	Head, Molecular Plant Physiology Dept.
2017-2019	Agricultural Research, Education and Extension Organization (AREEO)	National Focal Point and Coordinator of Iran-ICRISAT program

Publications

Conferences

2000

- ❖ **NAKHODA, B.**, Daneshian, J. and Hashemi-Dezfuli, A. 2000. Effects of water stress on growth parameters, some morphological and physiological characteristics of pearl millet (*Pennisetum americanum* L. Leek Var. Nutrifed). The Sixth Crop Science Conference of Iran. Babolsar - Iran.
- ❖ **NAKHODA, B.**, Daneshian, J. and Hashemi-Dezfuli, A. 2000. Effects of cutting on growth parameters, some morphological and physiological characteristics of pearl millet (*Pennisetum americanum* L. Leek Var. Nutrifed). The Sixth Crop Science Conference of Iran. Babolsar - Iran.
- ❖ **NAKHODA, B.**, Daneshian, J. and Hashemi-Dezfuli, A. 2000. Effects of cutting on forage yield and quality of pearl millet (*Pennisetum americanum* L. Leek Var. Nutrifed). The Sixth Crop Science Conference of Iran. Babolsar - Iran.

2002

- ❖ **NAKHODA, B.** 2002. Application of expert systems in agricultural research and production. Keynote speech. August 13-18, 7th Crop Science Conference of Iran.

2005

- ❖ **NAKHODA BABAK**, LEUNG HEI, EGDANE JAMES, and ISMAIL ABDELBAGI M. 2005. Isolation and characterization of IR64 knockout mutants with altered responses to salt stress. The 5th Rice Genetics Symposium, November 19-24, Manila, Philippines.

2006

- ❖ **NAKHODA BABAK**, LEUNG HEI, EGDANE JAMES, and ISMAIL ABDELBAGI M. 2006. Isolation and characterization of rice mutant lines with altered responses to salt stress. The 36th Crop Science Conference of the Philippine, May 8-12, Puerto Princesa city, Palawan, Philippines.
- ❖ **NAKHODA BABAK**, LEUNG HEI, EGDANE JAMES, and ISMAIL ABDELBAGI M. 2006. Morphological, physiological and biochemical evaluation of IR64 mutant lines under saline and normal conditions. The 2nd International Rice Congress, October 9-13, New Delhi, India.

2008

- ❖ **NAKHODA BABAK**, LEUNG HEI, EGDANE JAMES, and ISMAIL ABDELBAGI M. 2008. Responses of tolerant and sensitive rice mutants to salt stress at seedling stage. 5th International Crop Science Conference, April 13-18, Jeju, Korea.
- ❖ **NAKHODA BABAK**, LEUNG HEI, EGDANE JAMES, MENDIORO MERLYN S., MACKILL DAVID, and ISMAIL ABDELBAGI M. 2008. Novel IR64 mutant lines with contrasting phenotypes under salt stress. International Symposium on Induced Mutation in Plants, August 12-15, Vienna, Austria.
- ❖ **NAKHODA BABAK**, LEUNG HEI, EGDANE JAMES, MENDIORO MERLYN S., MACKILL DAVID, and ISMAIL ABDELBAGI M. 2008. Field evaluation of IR64 mutants with altered responses to salt stress under saline and normal conditions. International Symposium on Induced Mutation in Plants, August 12-15, Vienna, Austria.
- ❖ **Nakhoda B**, Katimbang M, Egdane J, Zantua R, Thomson M, et al. 2008. Knockout mutant population for forward and reverse genetics for salt tolerance in rice. Philippine Journal of Crop Science (Philippines)

2009

- ❖ Zeinalabedini M., M. Khayam-Nekoui, **B. Nakhoda**, and P. Martínez-Gómez. 2009. Identification of self-incompatibility and self-compatibility alleles in almond and some *Prunus* species using simple and multiplex PCR. 20th Crop Science Conference of the Philippines, May 18-23, 2009, Silliman University, Dumaguete, Philippines.
- ❖ **Babak Nakhoda**, Fariborz Abbasi, Amir-Hossein Shirani-Rad, Mahmoud Khorrami-Vafa, and Ghasem Mohammadi-Nejad. 2009. Physiological, morphological, and biochemical aspects of water stress on yield, and yield components of bread wheat genotypes. The 3rd International Conference on Drought (InterDrought III), Oct. 11-16, Shanghai, China.
- ❖ **Babak Nakhoda**, Fariborz Abbasi, Amir-Hossein Shirani-Rad, Ahmad Yusefi, Ebrahim Mamnouie, and Ghasem Mohammadi-Nejad. 2009. Physiological, morphological, and biochemical aspects of water stress on yield, and yield components of barley genotypes. The 3rd International Conference on Drought (InterDrought III), Oct. 11-16, Shanghai, China.
- ❖ **Babak Nakhoda**, Harkamal Walia, Xinping Cui, Tim Close, Merlyn S. Mendioro, Hei Leung, and Abdelbagi M. Ismail. 2009. Comparative transcriptional profiling of two contrasting IR64 mutants and wild type parent under control and salt stress treatments

during vegetative stage. The 6th International Symposium of Rice Genetics (RG6), Nov. 16-19, Metro-Manila, Philippines.

2010

- ❖ Katimbang, M., **Nakhoda, B.**, Egdane, J., Thomson, M., Leung, H., Ismail, A., 2010. Genetic analysis of IR64 mutants contrasting in their tolerance to salt stress. Philippine Journal of Crop Science 35.
- ❖ Ghaffari, A., Gharechahi, J., **Nakhoda, B.**, Khodarahmi M., Hosseini-Salekdeh, G. 2010. Proteome analysis of two contrasting rice mutants and wild type parent under control and salt stress conditions at the vegetative stage. Human Proteome World Congress. Sydney, Australia.

2011

- ❖ Farsi, M. Zeinolabedini, M., Imani, A., **Nakhoda, B.**, Majidian, P., Dabbab, M., Mardi, M. 2011. Study of genetic diversity of selected Iranian almond germplasms using fluorescent-AFLP markers. XIII Eucarpia symposium on fruit breeding and genetics.
- ❖ M., Dabbab, M. Zeinolabedini, J. Dejampour, P., Majidian, **B. Nakhoda**, M. Farsi, M. Mardi, A. Imani. 2011. DNA fingerprinting of new Iranian apricots released from breeding programs. XIII Eucarpia symposium on fruit breeding and genetics.
- ❖ P. Majidian, M. Zeinolabedini, J. Dejampour, **B. Nakhoda**, B. Krska, B. Nakhoda, M. Dabbab, M. Farsi, M. Mardi, A. Imani. 2011. Evaluation of genetic relationships of some apricot cultivars and genotypes using fluorescent-AFLP markers. XIII Eucarpia symposium on fruit breeding and genetics.
- ❖ Askarypour N, Tohidinejad E, Mohammadi-nejad G, Fotokian MH and **Nakhoda, B***. 2011. The effect of drought stress and biologic fertilizers on Fenugreek. The International Symposium on Medicinal and Aromatic Plants. Dec.15-18, 2011, Empress Hotel, Chiang Mai, Thailand.
- ❖ Askarypour N, Tohidinejad E, Mohammadi-nejad G, Fotokian MH and **Nakhoda B***. 2011. Evaluation of drought tolerance induction by biologic fertilizer in Fenugreek. The International Symposium on Medicinal and Aromatic Plants. Dec.15-18, 2011, Empress Hotel, Chiang Mai, Thailand.
- ❖ Fotokian, Sharifi, Khayyam, Davoodi, Hasanlu, Habibi, Ghanbari, kordnaej, Mohammadi nejad, **Nakhoda B.**, and Ramazani. 2011. Effects of growth regulators and explants on callus induction and organogenesis in *Hypericum perforatum*. The International Symposium on Medicinal and Aromatic Plants. Dec.15-18, 2011, Empress Hotel, Chiang Mai, Thailand.
- ❖ Asma Adhami, tohidinejad, Mohammadi-nejad, Fotokian and **Nakhoda, B.** 2011. The effect of drought and priming of salysilic acid and manganese sulphate on Fenugreek. The International Symposium on Medicinal and Aromatic Plants. Dec.15-18, 2011, Empress Hotel, Chiang Mai, Thailand.
- ❖ Leili Mirhosseini, **Babak Nakhoda**, Mohammadi-nejad, Bahramnejad, Tohidinejad, Fotokian. 2011. Evaluation of Cumin landraces under drought stress based on some agronomic traits. The International Symposium on Medicinal and Aromatic Plants. Dec.15-18, 2011, Empress Hotel, Chiang Mai, Thailand.
- ❖ Sardooie-Nasab, S., Mohammadi-nejad, G., Zebarjadi, A., **Nakhoda, B.**, Mardi, M., Tabatabaie, M.T., Sharifi, G., Amini, A., Majidi, E. 2011. Evaluation of genetic diversity in wheat promising lines using SSR markers. The 7th national Congress on Biotechnology, September 12-14, 2011, Tehran-Iran.

- ❖ Sardooie-Nasab, S., Mohammadi-nejad, G., Zebarjadi, A., **Nakhoda, B.**, Mardi, M., Tabatabaie, M.T., Sharifi, G., Amini, A., Majidi, E. 2011. Study the allelic variation of QTLs responsible for salinity tolerance in bread wheat. The 7th national Congress on Biotechnology, September 12-14, 2011, Tehran-Iran.
- ❖ Sharifi I, Fotokian M, Kordenaiej A, Ramazani S, Hasanlu T, et al. 2011. Effects of Growth Regulators and Explants on Callus Induction and Organogenesis in *Hypericum perforatum*. International Symposium on Medicinal and Aromatic Plants 1023:241-7
- ❖ Dejampour J, Krska B, **Nakhoda B**, Mardi M, Majidian P, Zeinalabedini M. 2011. Evaluation of Genetic Relationships of Some Apricot Accessions Using Fluorescent-AFLP Markers. XIII Eucarpia Symposium on Fruit Breeding and Genetics 976:265-9

2012

- ❖ Vazan S., Rajabi F. , Askari H., **Nakhoda B.**, Torabi S. 2012. Effect of salinity on Na⁺ and K⁺ compartmentation in salt tolerant and sensitive wheat genotypes. AgroEnvironment 2012. Wageningen University, Netherlands.

2017

- ❖ **Babak Nakhoda**, Ghasem Mohammadi-Nejad, Mohsen Mardi, Ashkboos Amini, Mohammad-Taghi Tabatabaei. 2017. Identification of QTLs associated with salt tolerance in bread wheat cult. Roushan in cross with Falat, Sabalan, and Super Head-II using DArT markers. 4th Conference of Cereal Biotechnology and Breeding. November 6-9, 2017, Budapest, Hungary.

2023

- ❖ **Babak Nakhoda**. 2023. Millet and sorghum as climate resilient crops to ensure food security under climate change conditions in Iran: current situation and future prospects. International Conference on Millets-2023. Jan 30 to 31st at Ramnarain Ruia Autonomous College, Mumbai (<https://www.ruiacollege.edu/Department/Deptindex.aspx?nDeptID=caaks>). Invited keynote speaker.

Journal articles

2000

- ❖ Nakhoda B, Dezfouli A, Banisadr N. 2000. Water stress on forage yield and quality of pearl millet [*Pennisetum americanum* (L.) Leek. var. Nutrifeed]. Iranian Journal of Agricultural Sciences 31:701-12

2010

- ❖ Mamnouie E, Fotouhi Ghazvini R, Esfahani M, Nakhoda B. 2010. The effects of water deficit on crop yield and the physiological characteristics of barley (*Hordeum vulgare* L.) varieties. Journal of Agricultural Science and Technology 8:211-9

2011

- ❖ Mohammadinejad G., Singh R, Rezaie M, Arzani A, Nakhoda B. 2011. fine-mapping of a major effect QTL responsible for salinity tolerance (saltol) in rice.
- ❖ Tabatabaie SM, Nakhoda B, Mohammadi-Nejad G, Yousefi K, Mousavi SR. 2011. Evaluation of Some Salt Tolerance Criteria in Wheat Lines. J. Appl. Environ. Biol. Sci 1:500-6

2012

- ❖ Nakhoda B, Leung H, Mendioro MS, Mohammadi-nejad G, Ismail AM. 2012. Isolation, characterization, and field evaluation of rice (*Oryza sativa* L., Var. IR64) mutants with altered responses to salt stress. Field Crops Research 127:191-202
- ❖ Alavi S, Nakhoda B, Majidi I, Ardakani M, Esmaeilzadeh M. 2012. The effect of terminal drought stress on carbohydrate non-structure in advanced lines of bread wheat genotypes.
- ❖ Alipoor B, Moradi F. 2012. Relationship between drought stress and some antioxidant enzymes with cell membrane and chlorophyll stability in wheat lines. Afr J Microbiol Res 6:617-23
- ❖ Asadi M, Mohammadi-Nejad G, Golkar P, Naghavi H, Nakhoda B. Assessment of salinity tolerance of different promising lines of bread wheat (*Triticum aestivum* L.).

2013

- ❖ Sharbatkhari M, Galeshi S, Shobbar Z, Nakhoda B, Shahbazi M. 2013. Assessment of agro-physiological traits for salt tolerance in drought-tolerant wheat genotypes. International Journal of Plant Production 7:437-54
- ❖ Sardouie-Nasab S, Nejad GM, Zebarjadi A, Nakhoda B, Mardi M, et al. 2013. Response of Bread Wheat (*Triticum aestivum* L.) Lines to Salinity Stress. Seed and Plant Improvement Journal 29:81-102
- ❖ Sardouie Nasab S, Mohammadi Nejad G, Nakhoda B. 2013. Assessing genetic diversity of promising wheat (*Triticum aestivum* L.) lines using microsatellite markers linked with salinity tolerance. Journal of Plant Molecular Breeding 2:28-39
- ❖ Majidian P, Zeinalabedini M, Dejampour J, Krska B, Nakhoda B, Mardi M. 2013. Evaluation of genetic relationships of some apricot accessions using fluorescent-AFLP markers. Acta. Hortic 976:265-70

- ❖ Azadi A, Hervan EM, Mohammadi SA, Moradi F, Nakhoda B, et al. 2013. Screening of recombinant inbred lines for salinity tolerance in bread wheat (*Triticum aestivum* L.). *African Journal of Biotechnology* 10:12875-81
- ❖ Khodadadi M, Fotokian MH, Mohammadi-Nejad G, Bahraminejad A, Nakhoda B, et al. Genetic diversity of Iranian wheat (*Triticum aestivum* L.) genotypes based on cluster analysis and principal component analysis.

2014

- ❖ Abbasi S, Baghizadeh A, Mohammadi-Nejad G, Nakhoda B. 2014. Genetic Analysis of Grain Yield and Its Components in Bread Wheat (*Triticum aestivum* L.). *Annual Research & Review in Biology* 4:3636
- ❖ Sardouie-Nasab S, Mohammadi-Nejad G, Nakhoda B. 2014. Field Screening of Salinity Tolerance in Iranian Bread Wheat Lines. *Crop Science* 54:1489-96
- ❖ Ghaedrahmati M, Mardi M, Naghavi M, Majidi Heravan E, Nakhoda B, et al. 2014. Mapping QTLs associated with salt tolerance related traits in wheat (*Triticum aestivum* L.). *Journal of Agricultural Science and Technology* 16:1413-28
- ❖ Ghaffari A, Gharechahi J, Nakhoda B, Salekdeh GH. 2014. Physiology and proteome responses of two contrasting rice mutants and their wild type parent under salt stress conditions at the vegetative stage. *Journal of plant physiology* 171:31-44
- ❖ Masoudi, B., E. Majidi Hervan, M. Mardi, M. R. Bihamta, M. R. Naghavi, B. Nakhoda, A. Amini, S. M.T. Tabatabaei, M. H. Dehghan, M. Kazemi Alamuti, M. Farsi, and L. Karimi Farsad. 2014. Evaluation of salinity tolerance in wheat recombinant inbred lines using salinity stress tolerance indices. *Journal of Agronomy and Plant Breeding*, Vol. 10. No.1, 2014, 99-107

2015

- ❖ Mollaheydari Bafghi R, Mohammadi-nejad G, Nakhoda B, Abbasi S. 2015. Assessment of Genetic diversity in bread wheat (*Triticum aestivum* L.) germplasm of advanced trials in Iran by microsatellite markers. *Journal of Plant Molecular Breeding*
- ❖ Masoudi B, Mardi M, Hervan EM, Bihamta MR, Naghavi MR, et al. 2015. QTL Mapping of Salt Tolerance Traits with Different Effects at the Seedling Stage of Bread Wheat. *Plant Molecular Biology Reporter*:1-14
- ❖ Azadi A, Mardi M, Hervan EM, Mohammadi SA, Moradi F, et al. 2015. QTL mapping of yield and yield components under normal and salt-stress conditions in bread wheat (*Triticum aestivum* L.). *Plant Molecular Biology Reporter* 33:102-20
- ❖ Hosseini SA, Gharechahi J, Heidari M, Koobaz P, Abdollahi S, et al. 2015. Comparative proteomic and physiological characterisation of two closely related rice genotypes with contrasting responses to salt stress. *Functional Plant Biology* 42:527-42
- ❖ Al-Yassin Adnan, Raheleh Khademian, Mohsen Mardi, Seyed Mojtaba Khayam Nekouei and Babak Nakhoda. 2015. Identification of Natural Nucleotide Mutations of Salt Tolerance Candidate Genes (*HvHKT1* and *HvCBL4*) in Barley Ecotypes by Sequencing. *American-Eurasian J. Agric. & Environ. Sci.*, 15 (7): 1256-1264, 2015, DOI: 10.5829/idosi.ajeaes.2015.15.7.12661

2016

- ❖ Dorranejad M., G. Mohammadinejad, B. Nakhoda. 2016. QTL mapping of grain yield and yield components in pure lines derived from Roshan× Falat bread wheat varieties (*Triticum aestivum* L.) under limited irrigation condition. *Journal of Agricultural Biotechnology*, 8 (1), 33-46
- ❖ Mohammadi Fatemeh, Ghasem Mohammadi-nejad, Babak Nakhoda. 2016. Identification of drought stress tolerant lines in bread wheat. *Environmental Stresses in Crop Sciences*. 8 (2), 45-57
- ❖ Sharbatkhari M, ZS Shobbar, S Galeshi, B Nakhoda. 2016. Wheat stem reserves and salinity tolerance: molecular dissection of fructan biosynthesis and remobilization to grains. *Planta* 244 (1), 191-202

2017

- ❖ Mohammadi-Nejad G., H Vaezi, E Majidi-Heravan. 2017. Field screening for drought tolerance in *Setaria italica* and *Panicum miliaceum* millet germplasm from Iran. *Indian Journal of Genetics and Plant Breeding* 77 (1), 83-91

2018

- ❖ Masoudi Bahram, Mohsen Mardi, Eslam Majidi Hervan, Mohammad Reza Bihamta, Mohammad Reza Naghavi, Babak Nakhoda, Behnam Bakhshi, Mehrzad Ahmadi, Mohammad Taghi Tabatabaei, Mohamad Hossein Dehghani Firouzabadi. 2018. Study of QTLs linked to awn length and their relationships with chloroplasts under control and saline environments in bread wheat. *Genes & genomics*, <https://doi.org/10.1007/s13258-018-0757-2>
- ❖ Naghavi Mohammad-Reza, Eslam Majidi Heravan, Babak Nakhoda, Amin Azadi, Ghasem Mohammadi-nejad. 2018. QTL analysis of yield and yield related traits in bread wheat under salt-stress conditions. *Journal of Plant Molecular Breeding*,
- ❖ Rahmati Mahnaz, Mohsen Mardi, Mohammad-Reza Naghavi, EslamMajidiHeravan, Babak Nakhoda, Amin Azadi, Ghasem Mohammadi-Nejad, Ashkboos Amini, Sayyed-Mohammad-Taghi Tabatabaei. 2018. QTL analysis of yield and yield related traits in bread wheat under salt-stress conditions. *J Plant Mol Breed* (2018) 6(1): 34-43, DOI: 10.22058/jpmb.2018.77518.1152

2019

- ❖ Sardouei-Nasab Somayeh, Ghasem Mohammadi-Nejad, Babak Nakhoda. 2019. Yield Stability in Bread Wheat Germplasm across Drought Stress and Non-Stress Conditions. *Agronomy Journal*, 111 (1), 175-181, doi:10.2134/agronj2018.06.0381
- ❖ Jahani, M., Mohammadi-Nejad, G., Nakhoda, B. and Loren H. Rieseberg. 2019. Genetic dissection of epistatic and QTL by environment interaction effects in three bread wheat genetic backgrounds for yield-related traits under saline conditions. *Euphytica*, 215: 103. <https://doi.org/10.1007/s10681-019-2426-1>
- ❖ Negarestani Mohammadreza, Enayatollah Tohidi-Nejad, Gholamreza Khajoei-Nejad, Babak Nakhoda and Ghasem Mohammadi-Nejad. 2019. Comparison of Different Multivariate Statistical Methods for Screening the Drought Tolerant Genotypes of Pearl Millet (*Pennisetum americanum* L.) and Sorghum (*Sorghum bicolor* L.). *Agronomy* 2019, 9, 645; doi:10.3390/agronomy9100645
- ❖ Baghizadeh A, Aram Kasmaie M, Mohammadinejad G, Nakhoda B. Evaluation of Seed Yield and Accumulation Status of Sodium, Potassium and Magnesium Ions in Different Tissues of Sensitive and Tolerant Wheat (*Triticum aestivum* L.) Varieties. *jcb*. 2019; 11 (31) :174-184 URL: <http://jcb.sanru.ac.ir/article-1-984-fa.html>

- ❖ Alizadeh Z, Ebrahimi F, Mohammadi Negad Gh, Nakhoda B (2019) Association Analysis of Agronomic Traits in Common Millet (*Panicum miliaceum*) under Drought Stress Conditions Using AFLP Marker. *Agricultural Biotechnology Journal* 11 (3), 153-174.
- ❖ Aminizadeh A, Mohammadi-Nejad G, Nakhoda B (2019) Association analysis of agronomic traits of foxtail millet germplasm using AFLP marker. *Agricultural Biotechnology Journal* 11(2), 173-189.
- ❖ Aminizadeh A, Mohammadi-Nejad G, Nakhoda B (2019) Study of Genetic Diversity and Identification of Informative Molecular Markers Related to Drought Tolerance in Foxtail Millet [*Setaria italica* (L.) P. Beauv.]. *Agricultural Biotechnology Journal* 11 (4), 193-218.

2020

- ❖ Vaezi, H., Mohammadi-Nejad, G., Majidi-Heravan, E., Nakhoda B. & Darvish-Kajouri, F. 2019. Effective Selection Indices for Improving Tolerance to Water Stress in Millet Germplasm. *Int. J. Plant Prod.* 14, 93–105 (2020). <https://doi.org/10.1007/s42106-019-00070-8>, <https://link.springer.com/article/10.1007/s42106-019-00070-8>
- ❖ Yazdizadeh, M., Fahmideh, L., Mohammadi-Nejad, G. Solouki, M. & Nakhoda, B. 2020. Association analysis between agronomic traits and AFLP markers in a wide germplasm of proso millet (*Panicum miliaceum* L.) under normal and salinity stress conditions. *BMC Plant Biol* 20, 427 (2020). <https://doi.org/10.1186/s12870-020-02639-2>

2022

- ❖ Loni F, Ismaili A, Shobbar Z, Nakhoda B, Darzi Ramandi H. 2022. Identification of the drought tolerance involved candidate genes in foxtail millet through an integrated meta-analysis approach. *Genetic Engineering and Biosafety Journal*. 2022; 11(1)
- ❖ Abdeslahi: Transferring four yellow rust resistance genes to wheat cv. Kalhaydari using marker assisted backcrossing. URL: <http://gebsj.ir/article-1-416-fa.html>
- ❖ Mehdi Yazdizadeh, Leila Fahmideh, Ghasem Mohammadi-Nejad, Mahmood Solouki, Babak Nakhoda and Fatemeh Ebrahimi. 2022. Evaluation of a Wide Range of Foxtail Millet (*Setaria italica* L) Germplasms Based on Yield and Some Agronomical Traits. *Journal of Crop Breeding* Vol. 14, No 42, PP. 63-75
- ❖ Marzieh Shabani, Abbas Alemzadeh, Babak Nakhoda, Hooman Razi, Zeinab Houshmandpanah, David Hildebrand. 2022. Optimized gamma radiation produces physiological and morphological changes that improve seed yield in wheat. *Physiology and Molecular Biology of Plants*. <https://doi.org/10.1007/s12298-022-01225-0>

2023

- ❖ Sardouei-Nasab Somayeh, Ghasem Mohammadi-Nejad, and Babak Nakhoda. 2023. Identification of stable QTLs and candidate genes associated with plant height and spike length in common wheat. *Crop & Pasture Science*. <https://doi.org/10.21203/rs.3.rs-2964934/v1>

Monographs

1. **NAKHODA, B.** 1998. **An Introduction to Nutrifeed (Forage Pearl Millet).** Monograph. Agricultural Research, Education, and Extension Organization publications.
2. **NAKHODA, B.** 2000. **Millet.** Monograph. Agricultural Research, Education, and Extension Organization publication.

Research interests

- ❖ Physiology and molecular breeding of crop plants under environmental (abiotic) stresses, with focus on drought and salinity in cereals
- ❖ Climate change, Climate Smart Agriculture and Alternative crops
- ❖ High-throughput plant phenotyping and remote sensing

Professional membership

- | | |
|--|--------------|
| ➤ Iranian Crop and Plant Breeding Sciences Society | 1992-2014 |
| ➤ National Drought Mitigation Committee of Iran | 2000-2003 |
| ➤ Editorial board of Drought and Drought Periods Journal | 2000-2003 |
| ➤ Crop Science Society of the Philippines | 2004-2008 |
| ➤ Genetics and MBB Society of the UPLB | 2003-2008 |
| ➤ Iranian Biotechnology Society | 2008-Present |
| ➤ Board member, Biosafety Society of Iran | 2008-2018 |
| ➤ Editorial Board of Journal of Biosafety | 2008-2018 |
| ➤ Board member, Iranian Crop and Plant Breeding Sciences Society | 2014-2018 |
| ➤ Board member, Iranian Biotechnology Society | 2016-Present |
| ➤ Genetics Society of Iran | 2008-Present |
| ➤ Board member of the Research, Technology, Innovation and Infrastructure Group, Higher Council for Biotechnology Development, Vice-President for Science and Technology | 2015-Present |