(Updated at: 9. August. 2024) **Scholar H-index: 10**

Personal Data

First name: Mohammad

Middle name: -Surname: Golbashy

ID. Card No.: 0943557607

Date of birth: 12 November 1984

Nationality: Iranian **Affiliation (work)**:

Assistant Professor, Department of Plant Production and Genetic Engineering, College of Agriculture, Agricultural Sciences and Natural Resources University of Khuzestan, Mollasani, Iran.

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ACADEMIC QUALIFICATIN

Diploma: Mirza Koochak Khan high School, Mashhad city. Khorasan Razavi province, Iran G.P.A. = 18.5 out of 20.

B.Sc: Azad University of Mashhad, Khorasan Razavi province, Iran Specialization: Agricultural Engineering; Agronomy and Plant Breeding. G.P.A. =18.03 out of 20 (as the first rank student. in Sept. (2006)

M.Sc: Tehran University, Aboureihan campus, Tehran province, Iran. Specialization: Agricultural Engineering; Plant breeding G.P.A. =18.61 out of 20 (as the first rank student of the dept. In Sept. (2010)

Ph.D: Nanobiotechnology Group, Life Science Engineering Department, Faculty of New Sciences & Technologies, University of Tehran. Specialization: Nanobiotechnology. G.P.A. =18.50 out of 20 (as the Second rank student. in Sept. (2016)

HONOR/AWARDs

- ➤ Member of National Elites Foundation, Presidency of Iran
- ≥ 2nd rank among PhD. students graduated in the Nanobiotechnology, University of Tehran, 2016.
- University of Tehran Best Researcher Award, Tehran, Iran, 2012.
- Best Iranian Idea Award in the 2th Festival of the University of Tehran Student Ideas, 2010.
- ▶ 1st rank among PhD. candidates in the entrance examination for university of Tehran, Iran, 2010.
- > Best Student Thesis Award, University of Tehran, Iran, 2010.
- First rank among M.Sc. students graduated in the Plant Breeding, University of Tehran, 2010.
- ▶ 4th rank among M.Sc. candidates in the national entrance examination for Iranian universities, Iran, Sept. 2008.
- First rank among B.Sc. students graduated in the Agronomy and Plant Breeding, Azad University of Mashhad, Iran, Jun 2007.



LANGUAGE SKILLS

Persian (Farsi); National language

English; Speaking: Sufficient, Writing, Listening and reading: Good

COMPUTER SKILLS

Statistical Analysis Software: ICDL, SAS, SPSS, Sigma Plot, Minitab, Mstat-c, Genetic and Bioinformatics Software's

Others

I am particularly interested in Design, synthesis, and characterization of nanoscale materials, composites and biosensors, DNA and RNA extraction and isolation, cDNA synthesis, Primer designing, PCR, Electrophoresis, Gene Cloning, SDS-PAGE, Western blotting, Protein expression and purification, Bacteria, Plant, Human and Animal Cell Culture.

RESEARCH INTERESTS

My research interests span a broad range of topics in the fields of Biology, Nanotechnology, Genetic and Biotechnology. Particularly I would also like to explore the applications of nanomaterials in biology, environment and agriculture.

SCIENTIFIC PRODUCTION

A) Publications in Scientific-Research Journals

- 1. S. J. Al-Zuwaini, L. F. Aljibouri, A. H. Al-Marzoqi, **M. Golbashy**, I. A. Ibraheam, M. F. Alsaffar, A. T. Ahmed, Z. A. Tolaifeh, Z. A. Muslim, M. S. Otaiwi, I. A. M. Ali Alcharrakh. (2024) Microbial Etiology, Immunological Evaluation, and Drug-Resistance Spectrum Profile of Bloodstream Infections Among Cancer Patients, Medical Journal of Babylon.
- 2. M. Asadi, **M. Golbashy**, M. Hosseini. (2024) Potassium Wearable Potentiometric Biosensors and Related Sweat Collection Methods: A Review, Analytical and Bioanalytical Electrochemistry.
- 3. HJ. Kadhim, SJ. AL-Zuwaini, H. Adnan, **M. Golbashy**. (2024) Antimicrobial Properties of Zinc Oxide Nanoparticles, Journal of University of Babylon for Pure and Applied Sciences.
- 4. F. Shalileh, H. Sabahi, **M. Golbashy**, M. Dadmehr, M. Hosseini. (2023) A simple smartphone-assisted paper-based colorimetric biosensor for the detection of urea adulteration in milk based on an environment-friendly pH-sensitive nanocomposite, Analytica Chimica Acta.
- 5. F. Shalileh, H. Sabahi, **M. Golbashy**, M. Dadmehr, M. Hosseini. (2023) Recent developments in DNA nanostructure-based biosensors for the detection of melamine adulteration in milk, Microchemical Journal.
- 6. A. M. Abdul-Sahib, **M. Golbashy**, J. A. Abbass. (2023) Effect of Date Palm Wastes, Perlite and Magnesium on Growth and Flowering in Gerbera Plants (Gerbera jamesonii L.), Journal of Horticultural Science and Technology.
- 7. H. A. Abdul Saheb, N. H. Mutlag, **M. Golbashy**. (2022) Green Synthesis of silver nanoparticles from Atriplex nummularia leaves extracted as antifungal against Candida albicans, HIV Nursing.
- 8. **M. Golbashy**, H. Sabahi, I. Allahdadi, H. Nazokdast, M. Hosseini. (2016) Synthesis of highly intercalated urea-clay nanocomposite via domestic montmorillonite as eco-friendly slow-release fertilizer, Archives of Agronomy and Soil Science.
- 9. **M. Golbashy**, H. Sabahi, I. Allahdadi, H. Nazokdast, M. Hosseini. (2016) Synthesis the montmorillonite- Pomegranate (*Punica granatum* L.) peel polyphenols nanostructure as a drug delivery vehicle, Biomedical & Pharmacology Journal.

- 10. J. Mosa Abadi, S. Khavari Khorasani, B. Syah Sar, S. Movafeg, **M. Golbashy**. (2011) Estimation of combining ability and gene effects of forage corn (*Zea mays* L.) characters using line × tester crosses, Journal of Plant Physiology and Breeding.
- 11. M. Ebrahimi, **M. Golbashy**, M. R. Bihamta, A. Hoseinzade, F. Khialparast. (2011), Evaluation of relation of grain yield with important agronomic traits of white (Phaseolus vulgaris L.) using different analyses methods under normal and bean water stress conditions. Journal of Crops Improvement. (In Persian).
- 12. S. Khavari Khorasani, A. Moeini, A. Mousavi, **M. Golbashy**. (2011) Study on Embryogenesis Response of Maize (Zea mays L.) Genotypes to Anther Culture. Agricultural Biotechnology. (In Persian).
- 13. Kh. Mostafavi, **M. Golbashy**, S. Khavari Khorasani. (2011) Study response of corn S.C hybrids to drought stress using multivariate statistical analysis. Agronomy and Plant Breeding journal. (In Persian).
- 14. M. Ashofteh, S. Khavari Khorasani, Kh. Mostafavi, **M. Golbashy**, A. Alizadeh. (2011) Study on grain yield and related traits in new corn (Zea mays L.) hybrid varieties using statistical multivariate analysis. Agronomy and Plant Breeding journal. (In Persian).
- 15. **M. Golbashy**, M. Ebrahimi, S. Khavari Khorasani, R. Choukan. (2010), Evaluation of Drought Tolerance of Some Corn (*Zea maize* L.) Hybrids in Iran, African Journal of Agriculture research.
- 16. M. Ashofteh Beiragi, S. Khavari Khorasani, S. H. Shojaei, M. Dadresan, Kh. Mostafavi, **M. Golbashy**. (2011) Study on Effects of Planting Dates on Growth and Yield of 18 Corn Hybrids (*Zea mays* L.), American Journal of Experimental Agriculture.
- 17. M. Ebrahimi, M.R. Bihamta, A. Hoseinzade, F. Khialparast, **M. Golbashy**. (2010), Studying the Response of Some White Varieties of Common Bean to Limited Irrigation, Iranian Journal of Field Crops Research. (In Persian).
- 18. M. Ebrahimi, M.R. Bihamta, A. Hoseinzade, F. Khialparast, **M. Golbashy**. (2010), Studying the yield, yield components and some agronomy traits of white genotypes of Common Bean in Karaj climate condition. Iranian Journal of Field Crops Research, Journal of Agroecology. (In Persian).
- 19. S. Khavari Khorasani, **M. Golbashy**, F. Azizi, M. Ashofteh, R Fatemi. (2010) Yield and growth evaluation analysis of new SC hybrids of forage corn (*Zea mays* L.). Journal of Agroecology. (In Persian).
- 20. M. Ashofteh, B. Siahsar, S. Khavari Khorasani, **M. Golbashy**, N. Mahdi Nezhad, A. Alizadeh. (2010) Study effect of Gen*Env interaction on morphologic, yield and yield components of new corn hybrids. Journal of Agroecology. (In Persian).
- 21. **M. Golbashy**, M. Ebrahimi, S. Khavari Khorasani, M.H. Sabour. (2010) Study on response of grain corn genotypes and determination of drought tolerance indices. Iranian Journal of Field Crops Research. (In Persian).
- 22. M. Golbashy, M. Ebrahimi, S. Khavari Khorasani, R. Choukan. (2010) Comparison of commercial and new corn hybrids (Zea maize L.) under drought stress and normal irrigation conditions. Environmental Stresses in Crop Sciences. (In Persian).
- 23. **M. Golbashy**, M. Ebrahimi, S. Khavari Khorasani, R. Choukan, M. Zarabi. (2010) Evaluation of some yield and yield components of some grain corn in Mashhad climate conditions. Journal of Agroecology. (In Persian).
- 24. **M.** Golbashy., K. Mostafavi. (2010) Correlation and path analysis of grain yield and its components in maize under drought stress conditions. Journal of Agronomy. (In Persian).
- 25. **M. Golbashy**, M. Ebrahimi, S. Khavari Khorasani, R. Choukan. (2009) A Study of Corn (Zea mays L.) Yield Determining Traits in Normal Condition and Low-Irrigation. Journal of Crop Breeding. (In Persian).
- 26. M. Ebrahimi, M.R. Bihamta, A.H. Hoseinzade, **M. Golbashy**, F. Khialparast. (2009), A Study of Agronomy and Morphologic Traits of White Bean Genotypes Using Multivariate Analysis, Journal of Crop Breeding. (In Persian).

B) Papers Presented in Conferences;

More than 95 papers that presented in national and international conferences. All documents are available.

C) Book written in Persian language

S.A. Sadat Nouri, **M. Golbashy**, M. Zarabi, "Experimental designs analysis using SAS, (2009). Jahat Press.

D) Inventions

- 1. Nanostructure with the ability to intercalation and slowly release of Polyphenols.
 - **ID:** 139450140003003914
- 2. Nano-Bio-Composite System for slow release of Urea.
 - **ID:** 139350140003012212
- 3. Design and synthesis of slow-release Nano-urea-polyphenols fertilize.
 - **ID:** 139450140003003958
- 4. Pomegranate seeds packaging with squeezing, dewatering and long-term maintenance properties.
 - **ID:** 139450140003003969
- 5. Smart containers based on Nano sensors for content amount and health diagnosis.
 - **ID:** 139450140003011879
- 6. Smart Garbage based on Nanotechnology.
 - **ID:** 139450140003011452

EMPLOYMENT

Courses Thought:

- ➤ Biostatistics and Statistical Designs in Agricultural Research as a teacher assistant, Department of Agronomy and Plant Breeding, University of Tehran, Tehran, Iran (2008).
- ➤ Biostatistics and Statistical in Agricultural Research as a teacher assistant, Department of Life Science Engineering, Faculty of New Sciences & Technologies, University of Tehran (2012).
- ➤ The basic of biotechnology in agricultural sciences, Department of Agronomy and Plant Breeding, University of Tehran, Tehran, Iran (2012).
- ➤ General Nanotechnology, department of nanotechnology, Yaran Khorasan Institute, Mashhad city, Khorasan Razavi province, Iran (2015).
- > Statistics and Probability, Agricultural Sciences and Natural Resources, University of Khuzestan, Iran (2023).
- ➤ Agricultural experimental design and analysis, Agricultural Sciences and Natural Resources, University of Khuzestan, Iran (2023).
- Principle of Statistics, Agricultural Sciences and Natural Resources, University of Khuzestan, Iran (2023).

RESEARCH WORKS

A. COMPLETED RESEARCH WORKS:

- ➤ Effect of Date Palm Wastes, Perlite and Magnesium on Growth and Flowering in Gerbera Plants (Gerbera jamesonii L.) (2022).
- ➤ Green Synthesis of silver nanoparticles from Atriplex nummularia leaves extracted as antifungal against Candida albicans (2022).
- Stability and loading properties of curcumin encapsulated in Chlorella vulgaris. (co-worker), University of Tehran, Iran. 2016
- ➤ Gallic acid-loaded MMT nanostructure as a new controlled release system. (co-worker), University of Tehran, Iran. 2016
- ➤ 1st, 2nd and 3rd conference on "New finding in environment and agricultural ecosystems". University of Tehran, Iran. 2016
- ▶ 1st and 2nd conference on "New finding in aerospace and related sciences. University of Tehran, Iran, 2015
- Study on response of grain corn genotypes and determination of drought tolerance indices, M.Sc. Thesis. University of Tehran, Aboureihan campus, Iran. 2010
- ➤ QTL Mapping in Plant population, a Theoretical Workshop for B.Sc. student. Aboureihan campus, University of Tehran, Iran. 2010
- ➤ The international workshop on resistance to plant diseases and pests. Aboureihan campus, University of Tehran and wageningen university the netherlands. 2010
- Multivariate analysis methods in plant breeding. M.Sc. Seminar., Department of agronomy and plant breeding, Aboureihan campus, University of Tehran, Iran. 2009
- Estimation of Combining Ability and Gene. M.Sc. Seminar., Department of agronomy and plant breeding, Aboureihan campus, University of Tehran, Iran. 2009

B. Title of thesis:

MSc: Study on response of grain corn genotypes and determination of drought tolerance indices.

PhD: Preparation of Nanobiocomposite system for slow release of Urea.

C. Course Training

- ➤ Gene cloning and recombinant protein expression in *E.coli*. February 12-15, 2016- National Institute for Genetic Engineering and Biotechnology (NIGEB).
- ➤ Human and Animal Cell Culture. April 2014- Faculty of New Sciences and Technologies, University of Tehran, Iran
- ➤ Application of Nanomaterials in agriculture. August 27-28, 2014- Faculty of New Sciences and Technologies, University of Tehran, Iran.
- ➤ Bioinformatics. May 27-28, 2013- Faculty of New Sciences and Technologies, University of Tehran, Iran.
- ➤ Programming and advance data analysis with SAS software, August 27-28, 2010- Aboureihan campus, University of Tehran, Iran.
- ➤ The systematic Approach to Patent Search and Analyziz Practical Case with Patent Scope Database, 16 & 18 January 2021 Mashhad, Iran.

Membership

- 1- The main member of the board of directors of the Iranian Nanotechnology Association.
- 2- Life member of National Elites Foundation, Presidency of Iran.
- 3- Life member of Iran Agronomy and Plant Breeding Association.
- 4- Member of Iranian Nanotechnology Society.
- 5- Member of Iranian Biotechnology Society.
- 6- Member of Iranian Genetics Society.
- 7- Member of Iranian Agricultural Engineering.