

Curriculum Vitae.



Personal Information

Tahmineh Lohrasebi, Ph.D Plant Molecular Genetics
Assistant Professor, Plant Bio-Products group
Dept. of Plant Biotechnology, National Institute of Genetic Engineering and
Biotechnology (NIGEB)
Shahrak-e Pajooresh, Km 15, Tehran-Karaj Highway, Tehran, I.R.Iran, P.O. Box:
14965/161
Tel: +98-21-44787364 Mail: Lohrasebi@nigeb.ac.ir, tlohrasebi@gmail.com

Postal code: 1497716316
Fax Number: 98-21-44580399

Education

- **B.Sc. in Cellular and Molecular Biology**, Kermanshah University, Kermanshah, Iran, 1991-1995.
- **M.Sc. in Plant Physiology**, Tehran University, Tehran, Iran, 1996-2000. *Agrobacterium transformation of Hyosyamus niger and H. muticus.*
- **Ph.D. in Molecular Genetics**, National Institute of Genetic Engineering and Biotechnology (NIGEB), Tehran, Iran, 2006-2011. *Global Expression analysis of Arabidopsis Acid Phosphatase genes.*

Previous and Current Research Projects (at the Current Position)

- Using cold plasma for improvement of seed germination and growth of bread wheat in normal and drought condition. Supported by NIGEB and Nuclear Sciences and Technologies Institute of IRAN
- Analysis of saponins profile of *Saponaria officinalis* hairy roots in response to methyl jasmonate as elicitor. Supported by NIGEB and University of Tehran, College of AbuRaihan.
- Analysis of saponin profile of Iranian *Anabasis setifera*, molecular analysis of key genes involved in saponin biosynthetic pathways. Supported by NIGEB.
- A study on anticancer effects of mint leaves and hairy roots extract; functional genomics approach. Supported by NIGEB and INSF
- Genome wide analysis of Wheat AP2/ERF genes family in salt stress. Supported by Iran and India.
- Delaying aging in Rose flowers using genetic engineering supported by ICRP.

- Effects of elicitors on phenolic acid compounds and expression of the genes involved in biosynthetic pathway in hairy roots of *Mentha spicata* .L. Supported by NIGEB.
- Stabilization and optimization of hairy roots production in *Mentha aquatica*, studying some of physiochemical factors on growth pattern and Rosmarinic acid production. Supported by NIGEB.
- Improvement of quantitative and qualitative characteristics of Iranian bread wheat using molecular tools Phase1: Evaluation of available bread wheat germplasms such as: crops, native and wild types to identifying appropriate varieties intended for the quality and quantity which are resistant to the drought and salinity stress and Zn, Fe and phosphate depletion condition. Supported by NIGEB.
 - Subproject 1: Investigation of the molecular mechanism that influences the bakery quality of bread wheat endosperm using comparative transcriptomics analysis.
 - Subproject 2: Evaluation of allelic variation of high (HMW-GS) and low molecular weight glutenin subunits (LMW-GS) in wheat landrace lines (*Triticum aestivum* L.)
 - Subproject 3: Genetic variation analysis of mineral contents of (Fe and Zn) Iranian Wheat genotypes and molecular analysis of selected genotypes with cDNA AFLP
- Optimization of barley transformation with agrobacterium for using in recombinant protein production platforms. Supported by NIGEB and University of Mohaghegh Ardabili.

Teaching Experience

Supervision Duties

- Supervisor, M.Sc. Thesis, Mojgan Gholami, Tabiat Modares University.
- Supervisor, M.Sc. Thesis, Serve Fathi, Tabiat Modares University.
- Advisor, M.Sc. Thesis, Ali Samaeian, Tehran University.
- Advisor, M.Sc. Thesis, Amir Faizi, Azad University.
- Supervisor, M.Sc. Thesis, Sara Farnoushfar, Payam Nour University.
- Supervisor, M.Sc. Thesis, Elham Ghavamzadeh, Tehran University.
- Supervisor, M.Sc. Thesis, Mina Rastegari, NIGEB.
- Supervisor, M.Sc. Thesis, Sharareh Mirshahvalad, Damghan University.
- Supervisor, Ph.D. Thesis, Shabnam Hasrak, Ferdosi University.
- Supervisor, M.Sc. Thesis, Matin Adel, NIGEB.
- Advisor, Ph.D. Thesis, Javad Zamani Amirzakaria, NIGEB.
- Supervisor, M.Sc. Thesis, Fatemeh Ahmadi Nike, Sharood University.
- Supervisor, M.Sc. Thesis, Fatemeh Zardadi, Azad University.
- Supervisor, Ph.D. Thesis, Shahrokh Garoosi, Mohaghegh Ardabili University.
- Supervisor, Ph.D. Thesis, Saeid Saeidpoor, Mohaghegh Ardabili University.
- Supervisor, M.Sc. Thesis, Samaneh Soroush, NIGEB.
- Supervisor, M.Sc. Thesis, Sadegh Shojaei, NIGEB.
- Advisor, Ph.D. Thesis, Narges Fatahi, Payame Noor University.
- Advisor, Ph.D. Thesis, N. Bayanati, Ferdosi University.
- Supervisor, Ph.D. Thesis, Shirin, Yousefian, NIGEB.
- Supervisor, Ph.D. Thesis, Fazileh Esmaili, NIGEB.
- Supervisor, M.Sc. Thesis, Mariam Moein, NIGEB.
- Supervisor, M.Sc. Thesis, Mahsa Rezvani, NIGEB.

- Advisor, Ph.D. Thesis, Narghes Khamseh, Kharazmi University.
- Supervisor, Ph.D. Thesis, Fatemeh Anbaz, NIGEB.
- Supervisor, Ph.D. Thesis, Fatemeh Tabtabaei, NIGEB.
- Advisor, M.Sc. Thesis, Mohammad Soltani, NIGEB.
- Advisor, M.Sc. Thesis, Mohammad Karami, NIGEB.
- Supervisor, M.Sc. Thesis, Zahra Rahimi, NIGEB.
- Supervisor, M.Sc. Thesis, Arman Karami, NIGEB.
- Supervisor, Ph.D. Thesis, Masoomeh Doagoo, NIGEB.
- Supervisor, Ph.D. Thesis, Rahil Golfam, Alzahra University.
- Supervisor, M.Sc. Thesis, Zahra sabili, NIGEB and Tarbiat Modares
- Supervisor, M.Sc. Thesis, Samaneh Mohamadi Rad, Tehran University
- Advisor, M.Sc. Thesis, Roya Soltani, Kharazmi University
- Advisor, M.Sc. Thesis, Mina Shariati, Tehran University
- Supervisor, Ph.D. Thesis, Mohammad Ramezani, NIGEB

Courses

- Bioinformatics, M.Sc. course, NIGEB, 2023.
- Plant Cell and Molecular Biology, M.Sc. course, NIGEB, 2023
- Bioinformatics, PhD course, Alzahra University, 2022
- Bioinformatics, PhD course, NIGEB, 2022
- Plant molecular genetics PhD course; NIGEB, 2021
- Bioinformatics, PhD course, Alzahra University, 2021
- Bioinformatics, PhD course, NIGEB, 2021
- Bioinformatics, PhD course, NIGEB, 2020
- Bioinformatics, PhD course, NIGEB, 2019
- Bioinformatics, PhD course, Alzhara university, 2018
- Bioinformatics, PhD course, Alzhara university, 2019
- Bioinformatics, PhD course, Alzhara university, 2020
- Bioinformatics, PhD course, NIGEB, 2018.
- Bioinformatics, PhD course, NIGEB, 2017.
- Bioinformatics, M.Sc. course, NIGEB, 2017.
- Bioinformatics, M.Sc. course, NIGEB, 2016.
- Bioinformatics, M.Sc. course, NIGEB, 2014.
- Bioinformatics, PhD course, NIGEB, 2015.
- Plant molecular genetics PhD course; NIGEB, 2015.
- Plant molecular genetics PhD course; NIGEB, 2016.
- Bioinformatics, M.Sc. course, Azad University, 2014.
- Plant Biology, graduate course, Ale Taha University, 2014.
- Bioinformatics, M.Sc. course, NIGEB, 2013.
- Bioinformatics, M.Sc. course, NIGEB, 2012.
- Plant molecular genetics PhD course; NIGEB, 2011.
- Bioinformatic, graduate course, Tarbiat Modares University, Tehran, 2003-2007
- Bioinformatic, graduate course, Bu-AliSina University, Hamedan, 2004

Conferences/Seminar/Congress Presentations

1. Sabili Z, Hasrak S, **Lohrasebi T**, Rashidi-Monfared S (2022) Studying the relation between differential expressed starch genes and bread quality in two wheat cultivars from 5 to 28 days post anthesis. 1st International and 10th National Iranian Conference on Bioinformatics (ICB) Kish Island, Iran.
2. Sabili Z, Hasrak S, **Lohrasebi T**, Rashidi-Monfared S (2022) Investigating the differential expression of starch and transcription factor encoding genes and their relations in wheat cultivars with different bread quality at 5 days post anthesis. 1st International and 10th National IRANIAN CONFERENCE on BIOINFORMATICS (ICB) Kish Island, Iran.
3. Doagoo M, Farhadpour M, **Lohrasebi T**, Rezadoost chahardeh H (2022) Optimization of Isolation, purification and Quantification of *Anabasis setifera* Moq. saponins from different Iranian regions using HPTLC and LC-MS. 9th Congress of Medicinal Plants. Tehran, Iran.
4. Rahimi Alaei Z, Lohrasebi T, Farhadpour M and Esfahani K (2022) Induction and stabilization of hairy roots in 4 species of Iranian mint, using *Agrobacterium rhizogenes*. 22th National and 10th International congress in Biology. Shahrekord University, Iran.
5. Esmaeli F, **Lohrasebi T**, Ebrahimi M and Ebrahimi E (2020). Investigating the effect of medicinal plant extracts on the expression of genes in cancer cells using meta-analysis approach. 4st Iranian conference of Systems Biology. Tehran. Iran.
6. Hasrak S, **Lohrasebi T**, Bagheri A, Marashi SH, Shariati V, Razavi K (2020). Identification of key genes affecting bakery quality of two Iranian wheat cultivars in 5 days after pollination based on network study between protein-protein interactions. 4st Iranian conference of Systems Biology. Tehran. Iran.
7. Golfam R. Kiarostami K, **Lohrasebi T**, Esfahani K, Ghazvini H (2019). Selection of the best cultivars for somatic embryogenesis of barley (*Hordeum vulgare* L.) from mature embryo. Agrobreed congress. Khozestan. Iran.
8. Hasrak S, Bagheri A, **Lohrasebi T**, Marashi SH, Shariati V (2017). Comparisons of thermal properties of two wheat cultivars with different gene expressions related to bread quality. 2st international & 10th Iranian Biotechnology Congress. Tehran. Iran.
9. Ahmadi Nik F, **Lohrasebi T**, Gharanjik S (2017). Isolation of *SmMYB39* gene inhibitor of Rosmarinic acid biosynthesis pathway from *Mentha aquatic L.* 2st international & 10th Iranian Biotechnology Congress. Tehran. Iran.
10. Ahmadi Nik F, **Lohrasebi T**, Gharanjik S (2017). Induction and stabilization Mint (*Mentha aquatica* L.) hairy roots from inoculation with *Agrobacterium rhizogenes*. 2st international & 10th Iranian Biotechnology Congress. Tehran. Iran.
11. Fatahi N, Razavi K, Sobhanian H, **Lohrasebi T**, Khosravi A, Bakhshi Khaniki G (2017). Study of antioxidant enzymes activity in two Iranian bread wheat landraces under salt stress. 2st international & 10th Iranian Biotechnology Congress. Tehran. Iran.
12. Moien M, Rezvani M, **Lohrasebi T** (2017). Isolation and Cloning of C4H Gene from 4 Iranian *Mentha* species. 2st international & 10th Iranian Biotechnology Congress. Tehran. Iran.

13. Rezvani M, Moien M, **Lohrasebi T** (2017). Isolation and Cloning of HPPR Gene from 4 Iranian Mentha species. 2st international & 10th Iranian Biotechnology Congress. Tehran. Iran.
14. Garousi S, Saeedpour A, **Lohrasebi T**, Jahanbakh S, Esfahani K (2017). Evaluation of the callus production ratio in Bahman and Yousef barley cultivars using different explants from mature embryos. 2st international & 10th Iranian Biotechnology Congress. Tehran. Iran.
15. Shojaei S, Esfahani K, **Lohrasebi T**, Salmanian AH (2017). Constructing of a plant expression vector harboring an optimized sequence of human epidermal growth factor (hEGF) gene at the downstream of viral untranslated region. 2st international & 10th Iranian Biotechnology Congress. Tehran. Iran.
16. Zamani Amirzakaria J, Malboobi M A, Marashi SA, **Lohrasebi T** (2016). In silico prediction of preferred substrate of some HAD-Related Acid Phosphatase of *A. thaliana*. 2016 International Conference on Intelligent Biology and Medicine (ICIBM 2016).
17. Bayanati M, Razavi K, Tehranifar A, **Lohrasebi T**, Neamati S H, Ahmadi N, Hajizadeh H (2016). Isolation and cloning of longevity-associated genes RhCG and RhAA in Rosa hybrid. 2st international & 14th Iranian Genetics Congress. Tehran. Iran.
18. Adel M, **Lohrasebi T**, Esfahani K, , Sanjarian F (2015) Optimization of transient expression of Barley (*Hordeum vulgare* L.) by Agrobacterium. 1st international & 9th Iranian Biotechnology Congress. Tehran. Iran.
19. Noorollahi H, Shariati V and **Lohrasebi T** (2015) Identification of candidate genes associated with yield and yield components of chromosome 3B of wheat by meta and synteny analysis. 1st international & 9th Iranian Biotechnology Congress. Tehran. Iran.
20. Adel M, Esfahani K, **Lohrasebi T**, Sanjarian F (2015) Evaluation of untranslated region efficiency of plant Alcohol Dehydrogenase (ADH) on reporter gene expression in barley (*Hordeum vulgare* L.). 1st international & 9th Iranian Biotechnology Congress. Tehran. Iran.
21. Mirshahvalad S, **Lohrasebi T**, Razavi k, kashefi B, Khosravi A (2014) Physiological and Molecular comparative of Iranian genotypes for tolerance to phosphorus deficiency Conditions. 1st international & 13th Iranian Genetics Congress. Tehran. Iran.
22. Mirshahvalad S, **Lohrasebi T**, Razavi k, kashefi B, Khosravi A (2014) Analysis physiological and genetic factors affecting phosphate metabolism in Iranian wheat. 1st international & 13th Iranian Crop Science Congress. Karaj. Iran.
23. Mirshahvalad S, **Lohrasebi T**, Razavi k, kashefi B, Khosravi A (2014) Evaluation of some Iranian Landrace wheat doubled haploid germplasm phosphate deficiency conditions. 1st international & 13th Iranian Crop Science Congress. Karaj. Iran.
24. Mirshahvalad S, **Lohrasebi T**, Razavi k, kashefi B, Khosravi A (2014) Studying the effects of ploidy levels on the phosphorus efficiencies in Iranian wheat. 1st international & 13th Iranian Genetics Congress. Tehran. Iran.

25. Gholami M, Karimzadeh G, **Lohrasebi T** (2014) Assessment of Bread Wheat Diversity in Phytic Acid, Iron Contents and Phytic Acid to Fe molar ratio. 1st international & 13th Iranian Genetics Congress. Tehran. Iran.
26. Fathi S, Golami Malekroudi M, **Lohrasebi T**, Sabet M S, Karimzadeh G (2014) Root morphological traits of Iranian Zn-efficient and Zn-inefficient wheat genotypes. . 1st international & 13th Iranian Genetics Congress. Tehran. Iran.
27. **Lohrasebi T**, Sabet MS, Zamani K, Malboobi MA (2013) Analysis of Arabidopsis Acid phosphatases gene family under salt stress conditions. Plant Salt Stress Congress, Tabriz, Iran.
28. Rastegari M, **Lohrasebi T**, Zamani K, Malboobi MA (2013) The role of an Arabidopsis thaliana purple acid phosphatase-encoding gene (AtPAP7) in phosphate metabolism and plant growth. 8th Iranian Congress of Biotechnology, Tehran, Iran.
29. Farnoshfar S, **Lohrasebi T**, Sobhebidari P, Sanjarian F (2013). Expression pattern analysis of MYB genes family in Arabidopsis developmental stages using phase clustering. 8th Iranian Congress of Biotechnology, Tehran, Iran.
30. Ghavamzadeh E, **Lohrasebi T**, Moazam M, Jahanbakhshian Z, Ebrahimzadeh H, Seyedi SM (2013) The role of SOS pathway in salinity tolerance in pistachio (*Pistacia vera* L.). 8th Iranian Congress of Biotechnology, Tehran, Iran.
31. Ghavamzadeh E, **Lohrasebi T**, Moazam M, Jahanbakhshian Z, Ebrahimzadeh H, Seyedi SM (2013) Comparison of some physiological parameters in selected Pistachio genotypes under salt stress conditions. Plant Salt Stress Congress, Tabriz, Iran.
32. Mirshahvalad S, **Lohrasebi T**, Razavi k, kashefi B, Khosravi A (2013) Exploitation of genetic variability among Iranian wheat genotypes for tolerance to phosphorus deficiency stress. 8th Iranian Congress of Biotechnology, Tehran, Iran.
33. **Lohrasebi T**, Shojaei S, Sobhe Bidari P, Manshei R, Malboobi MA (2012) Functional clustering of Arabidopsis acid phosphatase genes in response to phosphate concentration. 17th Biology congress, Tehran, Iran.
34. Rastegari M, **Lohrasebi T**, Zamani K, Malboobi MA (2012) The study of purple acid phosphatase gene (PAP7) of *Arabidopsis thaliana* in response to phosphate starvation. 17th Biology congress, Tehran, Iran.
35. **Lohrasebi T**, Zamani K, Sabet MS, Sobhe Bidari P and Malboobi MA (2011) Role of PHR1 and WRKY75 transcription factors in expression regulation of Arabidopsis Acid Phosphatase genes. 7th Iranian congress of Biotechnology, Tehran, Iran.
36. **Lohrasebi T**, Zamani K, Sabet MS, Sobhe Bidari P, Manshei R, Malboobi MA and Zare B (2011) Compensation network among Arabidopsis acid phosphatase-encoding genes to maintain cellular phosphate homeostasis. 7th Iranian congress of Biotechnology, Tehran, Iran.
37. **Lohrasebi T**, Shojaei S, Sobhe Bidari P, Manshei R, Malboobi MA (2011) Functional clustering of Arabidopsis acid phosphatase-encoding genes based on expression patterns affected by duration of exposing to different phosphate concentrations. 7th Iranian congress of Biotechnology, Tehran, Iran.
38. **Lohrasebi T**, Shojaei S, Sobhebidari P, Manshaie R, Feizi A, Malboobi MA and Alirezaie J (2008) The clustering of Arabidopsis acid phosphatase encoding genes

- based on expression patterns. 9th International Conference of Systems Biology (ICSB2008), August 23-27 in Gothenburg Sweden.
39. **Lohrasebi T**, Shojaie S, Sobhebidari P, Manshaie R, Feizi A, Malboobi MA and Alirezaie J (2008) Analysis and modeling of Arabidopsis acid phosphatase encoding genes interactions. 9th International Conference of Systems Biology (ICSB2008), August 23-27 in Gothenburg Sweden.
 40. Sobhebidari P, Manshaie R, **Lohrasebi T**, Feizi A, Malboobi MA and Alirezaie J (2008) Time series gene expression data clustering and pattern extraction in Arabidopsis thaliana phosphatase encoding genes. 8th IEEE international conference on Bioinformatics and Bioengineering (IEEE BIBE 2008) in Athens, Greece.
 41. K. Zamani, **T. Lohrasebi**, M.S. Sabet, M. A. Malboobi (2009) The Arabidopsis thaliana pap9 Gene Encodes Two Splice Forms. The 6th National Biotechnology Congress of I.R. Iran, Tehran, Iran.
 42. Alizadeh Z, Roshani Yassaghi E, Malboobi MA, Razavi K, Ghanati F, **Lohrasebi T**, Kashaninia A, Hedayati V (2007) Comparison of gene P5CS expression in halophyte plant *Aeluropus lagopoiedes* and wheat under salt stress. The 5th National Biotechnology Congress of Iran, 24-26 Nov, 2007, Summit Meeting Conference Hall, Tehran- Iran.
 43. Feizi A, Malboobi MA, **Lohrasebi T**, Kazempoor-Osalo S (2007) Phylogenetic analysis of plant acid phosphatases: classifications and annotations. The 5th National Biotechnology Congress of Iran, 24-26 Nov, 2007, Summit Meeting Conference Hall, Tehran- Iran.
 44. Samaian A, **Lohrasebi T**, Shojai S, Malboobi M A, Zargar SJ (2007) Analysis a novel Arabidopsis acid phosphatase with DNase activity in prokaryotic and eukaryotic systems. The 5th National Biotechnology Congress of Iran, 24-26 Nov, 2007, Summit Meeting Conference Hall, Tehran- Iran.
 45. Zamani K, **Lohrasebi T**, Sabet MS, Sarikhani MR, Malboobi MA (2007) Functional analysis of PAP18 gene encoding purple acid phosphatase in *Arabidopsis thaliana*. The 5th National Biotechnology Congress of Iran, 24-26 Nov, 2007, Summit Meeting Conference Hall, Tehran- Iran.
 46. **T. Lohrasebi**, M.A. Malboobi, P. Yazdanbakhsh (2005) Expression analysis of Arabidopsis acid phosphatases. 13th Iranian and the First International Conference of Biology, 23-25 Aug., Guilan University, Rasht, Iran.
 47. Niazi, M.A. Malboobi, T. Lohrasebi (2005) Analysis of BNYVV virus resistance by transient expression of constructs induced gene silencing in *Chenopodium quinoa*. 13th Iranian and the First International Conference of Biology, 23-25 Aug., Guilan University, Rasht, Iran.
 48. Niazi, M.A. Malboobi, A. Moini, M. Jalali Javaran, **T. Lohrasebi** (2005) Transient expression of constructs inducing gene silencing in sugar beet leading to viral resistance to BNYVV. 4th National Biotechnology Congress, 15-17 Aug., Kerman, Iran.
 49. N. Pajoum Shariaty, M.A. Malboobi, M. Arababi, T. Lohrasebi, K. Zamani (2005) Transfer of single-chain antibody fragment (ScFv) specific for beet necrotic yellow

- vein virus coat protein to sugar beet. 4th National Biotechnology Congress, 15-17 Aug., Kerman, Iran.
50. T. Lohrasebi, A. Samaeian, V. Sanei, M.A. Malboobi (2005) Identification of a trans-spliced acid phosphatase in *Arabidopsis thaliana*. 4th National Biotechnology Congress, 15-17 Aug., Kerman, Iran.
 51. F. Ghavami, **T. Lohrasebi**, M.A. Malboobi, M.R. Ghanadha (2003) Up-regulation of succinate dehydrogenase and prothobilinogen deaminase in response to high salt concentration in wheat. The Third National Biotechnology Congress of Iran, Sept. 9-11, Mashhad, Iran.
 52. **T. Lohrasebi**, M.A. Malboobi, K. Esfahani, V. Saneii (2003) Isolation of phosphate induced acid phosphatase genes from *Arabidopsis thaliana*. June 22-28, 7th International Congress of Plant Molecular Biology, Barcelona, Spain.
 53. **T. Lohrasebi**, R. Ali-Yari, M. Malboobi, D. Lefebvre (2003) Promoter analysis of a phosphate inducible gene in various organisms. June 22-28, 7th International Congress of Plant Molecular Biology, Barcelona, Spain.
 54. **T. Lohrasebi**, R. Aliyari, R. Sohrabi, M. A. Malboobi, D. D. Lefebvre (2003) Analysis of the activity of *psr3* promoter in *Arabidopsis* and tobacco plants May 20-22, 8th Iranian Congress of Genetics, Tehran, Iran.
 55. M. A. Malboobi, **T. Lohrasebi** (2002) New frontiers for genome projects and Muslim scientists. Seminar on Human Genome Diversity, 7-8 May. NRCGEB, Tehran, Iran.
 56. K. Esfahani, **T. Lohrasebi**, Z. Shobbar, M. A. Malboobi, A-A Shahnejat-Bousheri (2001) The effect of phosphate deficiency on expression of an *Arabidopsis thaliana* acid phosphatase gene. 10th Congress of Biology, Shiraz, Iran.
 57. K. Esphani, **T. Lohrasebi**, Z. Shobbar, M. A. Malboobi, A-A Shahnejat-Bousheri (2001) Expression analysis an *Arabidopsis thaliana* acid phosphatase gene in plants grown under various environmental conditions. The Second National Congress of Biotechnology, Karaj, Iran.
 58. R. Aliyari, **T. Lohrasebi**, M. A. Malboobi (2001) *In vivo* analysis of *psr3* promoter region in transgenic tobacco plants. The Second National Congress of Biotechnology, Karaj, Iran.
 59. M. A. Malboobi, R. Aliyari, **T. Lohrasebi**, Z. Shobbar, D.D. Lefebvre (2000) Conservation of bacterial *vir* box in a plant phosphate-starvation inducible promoter. 6th International Congress of Plant Molecular Biology, Quebec, Canada, June 18-24, 2000.
 60. M. A. Malboobi, **T. Lohrasebi** (2000) Engineering plant rhizosphere: Strategies and problems. The First National Congress of Biotechnology, Feb.22-24, Tehran, Iran

Journal Publications

1. Anbaz M, Bayanati M, **Lohrasebi T**, Mousavi A, Razavi K (2023) Are protein disulfide isomerases effectively involved in the rose senescence phenomenon? *Scientia Horticulturae* 311, 111783, doi.org/10.1016/j.scienta.2022.111783
2. Tabatabaee S, Sanjarian F, **Lohrasebi T** and Chaichi M (2022) Elevated Inulin Content in Chicory under Phosphorous and Iron Deficiency. Accepted to *Journal of Medicinal Plants and By-products*.
3. Garousi S, Jahanbakhsh Godehkahriz S, Esfahani K, **Lohrasebi T**, Mousavi ... (2022) Meta-Analysis of EGF-Stimulated Normal and Cancer Cell Lines to Discover EGF-Associated Oncogenic Signaling Pathways and Prognostic Biomarkers. *Iran. J. Biotechnol* ;20(3): e3245 DOI: 10.30498/ijb.2022.323464.3245
4. Golfam R, Kiarostami K, **Lohrasebi T**, Hasrak S, Razavi K (2022) Effect of drought stress on some seed characteristics of two bread wheat cultivars with two different qualities. *Cereal Biotechnology and Biochemistry*, 1 (2), 194-209. DOI: 10.22126/cbb.2022.7669.1010
5. Garousi S, Jahanbakhsh Godehkahriz S, Esfahani K, **Lohrasebi T**, Mousavi A, Salmanian AH (2022). Designing and constructing the encoding cassette of human epidermal growth factor for expression in barley seeds. *Agricultural Biotechnology Journal*; Print ISSN: 2228-6705.
6. Esmaeili F, **Lohrasebi T**, Mohammadi-Dehcheshmeh M and Ebrahimie E (2021) Evaluation of the Effectiveness of Herbal Components Based on Their Regulatory Signature on Carcinogenic Cancer Cells. *Cells*, 10, 3139 <https://doi.org/10.3390/cells10113139>
7. Karami M, Fatahi N, **Lohrasebi T**, Razavi K (2021) RAV transcription factor regulatory function in response to salt stress in two Iranian wheat landraces. Accepted to *Plant Research*
8. Golfam R, Kiarostami K, **Lohrasebi T**, Hasrak S and Razavi K (2021) A review of drought stress on wheat (*Triticum aestivum* L.) starch. *Farm. Manage.* 6 (1) : 47-57
9. Yousefian S, Ahamdi Nik F, **Lohrasebi T**, Mirshahvalad S, Gharanjik S, Esfahani K (2021) Investigation of Nitrogen and Phosphate Effect on Growth and Rosmarinic Acid Production in Transgenic *Mentha aquatica* Hairy Root Induction. Accepted to *Journal of Medicinal Plants and By-products*.
10. Gholami Malekroudi M, Karimzadeh G, **Lohrasebi T**, Sabet M S, Fathi S (2021) Potential Survey of Iranian hexaploid landraces and modern cultivated bread wheat for iron, zinc, phytate, and phytate:mineral molar ratios. Accepted to *Journal of Plant Physiology and Breeding*.
11. Ghorbanian N, Mousavi A, Marefatjoo M J, Soltani Ghofrani N, **Lohrasebi T**, Haghbeen K (2021) Toward more specific inhibitor for *Solanum tuberosum* polyphenol oxidase through a structural insight into its activities and inhibition. *J Food Biochem*, DOI: 10.1111/jfbc.13949
12. Golfam R, Kiarostami K, **Lohrasebi T**, Kasra Esfahani and Ghazvini H (2021) Application of molecular farming based on barley plant (*Hordeum vulgare* L.) platform: A Review. *Res. on Crops* 22 (2) : 410-424
13. Tabatabaee S, Sanjarian F, **Lohrasebi T**, Karimi M (2021). Enhanced inulin production by hairy root cultures of *Cichorium intybus* in response to Pi and Fe starvation. Accepted to MBRC.

14. Saeedpour A, Jahanbakhsh S, **Lohrasebi T**, Esfahani K, Salmanian AH, Razavi K (2021) The Effect of Endogenous Hormones, Total Antioxidant and Total Phenol Changes on Regeneration of Barley Cultivars. *Iran. J. Biotechnol*, 19(1): e2838.
15. Fathi. S, Sabet MS, **Lohrasebi T** (2021) Distribution of Zinc in High- and Low-Content Bread Wheat Genotypes. Accepted to *Russian Journal of Plant Physiology*.
16. Yousefian S, Ahamdi Nik F, 2, **Lohrasebi T**, Mirshahvalad S, Gharanjik S, Esfahani K (2020). Investigation of Nitrogen and Phosphate Effect on Growth and Rosmarinic Acid. *Journal of Medicinal plants and by products*
17. Bozorgmehr A, Ahmadi J, Shahinnia Fahimeh, Khadijeh Razavi³, Goodarz Najafian⁴, Lohrasebi T (2020) *Iranian Journal of Genetics and Plant Breeding*, 9 (1), 51-60.
18. Yousefian S, **Lohrasebi T**, Farhadpour M, Haghbeen K (2020). Effect of methyl jasmonate on phenolic acids accumulation and the expression profile of their biosynthesis-related genes in *Mentha spicata* hairy root cultures. *Plant Cell, Tissue and Organ Culture (PCTOC)*, <https://doi.org/10.1007/s11240-020-01856-9>.
19. Yousefian S, **Lohrasebi T**, Farhadpour M, Haghbeen K (2020). Production of phenolic acids in hairy root cultures of medicinal plant *Mentha spicata* L. in response to elicitors. *MBRC*, 9(1):23-34.
20. Zamani MZ, Malboobi MA, Marashi A, **Lohrasebi T** (2020) *In silico* prediction of enzymatic reactions catalyzed by acid phosphatases. Accepted to *Journal of Biomolecular Structure & Dynamics*.
21. Bozorgmehr A, Ahmadi J, Shahinnia F, Razavi K, Najafian G, **Lohrasebi T** (2020). Classification of High and Low Molecular Weight Glutenin Subunits and Genes in Tetra-Hexaploid Wheat Landraces Genome. *IJGPB*, 10.30479/ijgpb.2020.13805.1279
22. Fatahi N, sobhanian H, Razavi K, **Lohrasebi T**, Bakhshi - Khaniki G (2020) Biochemical and molecular responses of two native landraces of bread wheat to salt stress at different time periods. Accepted to *Crop Biotech*.
23. Zamani MZ, Malboobi MA, Marashi A, **Lohrasebi T** (2020) Critical assessment of genome-scale metabolic models of *Arabidopsis thaliana*. Submitted to *BioSystems*.
24. Fathi S, Sabet M S, **Lohrasebi T** (2020) Zinc Content of Seed influences Uptake and Translocation of Zn to Shoot in Iranian Bread Wheat Genotypes. Submitted to *Journal of Plant Nutrition and Soil Science*.
25. Saeedpour A, Jahanbakhsh S, **Lohrasebi T**, Esfahani K, Salmanian AH, Razavi K (2019). Designing and construction of a plant expression vector containing the hygromycin antibiotic resistance marker gene. *Crop Biotech*, 9(2): 1-9.
26. Bayanati M, Razavi K, Nemati H, **Lohrasebi T**, Ahmadi N (2019) Expression patterns analysis of SOD genes in responses to ethylene- induced oxidative stress in rose (*Rosa hybrida*) during flower development. *South African Journal of Botany*, Volume 127, December 2019, Pages 265-270
27. Bayanatia M, Razavi K, Tehranifar A, **Lohrasebi T**, Neamati SH, Ahmadi N (2019) Isolation and expression patterns of two novel senescence-associated genes RhAA and RhCG in rose (*Rosa hybrida*). *Postharvest Biology and Technology*, 152: 60–64.
28. Esfahani K, Adel M, **Lohrasebi T** (2019) Optimization of transient expression by *Agrobacterium* (agroinfiltration) in leaves and buds of barley (*Hordeum vulgare* L.) doi: 10.22124/c.2019.12934.1481
29. Zamani K, Sabet M S, **Lohrasebi T**, Malboobi MA (2019). Functional analysis of AtPAP18 gene encoding a purple acid phosphatase in *Arabidopsis thaliana*. Accepted to *Novine Genetics Journal*.

30. Hasrak S, **Lohrasebi T**, Bagheri A, Shariati V, Marashi H, Razavi k (2019) A Study to Assess the Role of Gluten Encoded Genes and Their Regulatory Elements in Bread Making Quality of Wheat. Iranian J Biotech. 2019 December;17(4): e2164.
31. Hallajian MT, Razavi K, Salmanian AH, **Lohrasebi T** (2018). Identification of protein markers linked to drought tolerance in new Iranian rice germplasm. Accepted, Global research Hub, Bionature.
32. Fathi S, Sabet M S, **Lohrasebi T**, Razavi K, Golami Malekroudi M & Karimzadeh G (2016). Effect of Root Morphological Traits on Zinc Efficiency in Iranian Bread Wheat Genotypes. Acta Agriculturae Scandinavica, Section B - Plant Soil Science
33. Sabet MS, Zamani K, Lohrasebi T, Malboobi MA (2017). Functional assessment of an overexpressed Arabidopsis purple acid phosphatase gene (AtPAP26) in tobacco plants. (Accepted, IJB).
34. Bozorgmehr A · Ahmadi A · Shahinnia F · Najafian G · Razavi K · **Lohrasebi T** (2015). Allelic Variation of Low Molecular Weight Glutenin (LMW) Subunits in Bread Wheat Landraces Using DNA Specific Markers. Novine Genetics Journal
35. Zamani K, **Lohrasebi T**, Sabet MS, Malboobi MA and Mousavi A (2014) Expression pattern and subcellular localization of Arabidopsis purple acid phosphatase AtPAP9. Gene Expression Patterns (GEP) Volume 14, Issue 1, January 2014, Pages 9–18.
36. Razavi K, Mohsenzadeh H, Ghavami F, **Lohrasebi T** and Malboobi MA (2014). The application of a non-radioactive method for profiling of *Aeloropus lagopoides* differentially expressed transcripts under salinity or drought conditions. Iran J Biotech.12(4): e1121
37. Malboobi M A, Zamain K, **Lohrasebi T**, Sarikhani M R, Samaian A, Sabet M S (2014) Phosphate: the Silent Challenge. Progress in Biological Sciences Vol. 4, Number 1, Pages 1-32.
38. **Lohrasebi T**, Zamani K, Sabet MS, Malboobi MA and Yazdanbakhsh P (2013) Fungal infection alters phosphate level and phosphatase profiles in Arabidopsis. Progress in Biological Sciences Volume 2, Issue 2, Winter 2013, Page 42-57.
39. Manshaei R, Sobhe Bidari P, Aliyari Shoorehdeli M, Feizi A, **Lohrasebi T**, Mohammad Ali Malboobi, Javad Alirezaie, Matthew Kyan (2012) Hybrid Controlled Neuro-Fuzzy Networks Analysis resulting to Genetic Networks Reconstruction. ISRN Bioinformatics Volume 2012, Article ID 419419, doi:10.5402/2012/419419.
40. Zamani K, Sabet M S, **Lohrasebi T**, Mousavi A & Malboobi M A (2012) Improved phosphate metabolism and biomass production by overexpression of AtPAP18 in tobacco. Biologia, sect. Cell. Mol. Biol.; Ms. No. 11-12-C.
41. **Lohrasebi T**, Malboobi MA, Samaeian A and Sanei V (2007) Differential expression of *Arabidopsis thaliana* acid phosphatases in response to abiotic stresses. Iranian Journal of Biotechnology, 5: 130-139.
42. F. Ghavami, M.A. Malboobi, M.R. Ghanadha, **T. Lohrasebi**, B. Yazdi- Samadi, J. Mozafari, A. Plant (2006) Increased expression of Succinate dehydrogenase and prophylinogen encoding genes in response to salt stress in wheat cultivar Mahouti. Iranian J Agric. Sci. 36: 1437-1444.
43. A. Samaeian, SJ. Zargar and **T. Lohrasebi** (2006) When proteins are folded. Modern genetic journal. 4,5: 43-55.
44. A.Niazi, M. A. Malboobi, A.Moeini, M.Jalali javaran, K.Zamani, **T.Lohrasebi** (2005) Propagation of *Polymyxa Betae* on hairy root hydroponic culture. Iran.J.Plant Path. 41: 293-302

45. P. Noruzi, Y. Sadeghian, M. Mesbah and **T. Lohrasebi** (2003) Investigation on salt tolerance and chromosomal variation in cell culture of sugarbeet (*Beta vulgaris* L.). *Journal of sugarbeet*, vol 19 (1), pp: 37-50.
46. **T. Lohrasebi**, M. Poorsolimani and H. Ebrahimzadeh. Genetic Transformation of *Hyoscyamus tenuiculis* by *Agrobacterium tumefaciens*. *Iranian Journal of Biology*. Vol 4, No.1, 2, 68-83.
47. H. Ebrahimzadeh, A. Teimoori, **T. Lohrasebi**. Hyoscyamin 6 beta hydroxylase gene isolation from in vitro cultured roots of *Hyoscyamus niger* L. and *Hyoscyamus tenuicalis* Schonbeck-Temesy. *Daru*, vol. 11, no.1, pp: 34-37, **2003**.
48. M.N. Sarboloki, A. Karami, **T. Lohrasebi**, M. Yaghobi, M. Sadeghzadeh. Dendrosome A Novel Family of Vehicle for Transfection and Therapy. *Journal of Chemical Technology and Biotechnology*, **2000 June**, pp: 1-7.
49. H. Ebrahimzadeh, A. Teimoori, **T. Lohrasebi**. Identification and amplification of hyoscyamin 6 beta hydroxylase gene from *in vitro* cultured roots of *Hyoscyamus niger*. *Daru*, vol. 8, no.1, pp: 36-41, **2000**.

Patents

1. M. A. Malboobi, **T. Lohrasebi** (2004) Novel genes encoding acid phosphatases induced by phosphate starvation. Iran patent No. 29900.
2. K Zamani, Malboobi MA, **Lohrasebi T** and Esfahani K (2010) Expression vectors for recombinant protein production and purification in Plants. Iran patent No. 64775.

Books and Book Chapters

1. M.A. Malboobi, **T. Lohrasebi** (2002) A practical guide to Bioinformatics. Written in English, Bargozideh Press, Tehran, Iran.
2. M.A. Malboobi, A. Faizi, **T. Lohrasebi** (2011) Processing data and Genome Projects. Written in Persian, Tehran, Iran.
3. M.A. Malboobi, A. Samaean, M. S. Sabet, **T. Lohrasebi**, (2012) Plant Phosphate Nutrition and Environmental Challenges. Book chapter Plant Science", ISBN 980-953-307-033-4. <http://www.intechopen.com/articles/show/title/plant-phosphate-nutrition-and-environmental-challenges>
4. Malboobi MA, Sabet MS, Zamani K, **Lohrasebi T**, (2022) Acid Phosphatases Roles in Plant Performance. chapter of Agricultural Biocatalysis Book
5. Malboobi MA, Faizi A, Zamani MJ and **Lohrasebi T** (2022) Classification and Evolutionary Landscape of Acid Phosphatase-Encoding Gene Families in Plants. chapter of Agricultural Biocatalysis Book

Research Interests

- Mechanism of gene expression regulation
- Molecular mechanisms of plant abiotic stress responses
- Pharmaceutical plants and production of medicinal product

Professional Activities and Affiliations

- Head of Plant Bioproducts Department, 2018- 2022
- Manager of Graduate Studies and Specialized Training, 2014- 2018.
- Managing editor of Modern Genetics Journal published by Iranian Genetics Society quarterly, since 2005-2008.

- Managing editor of Payam Genetic published by Iranian Genetics Society Monthly, since 2003-2005.

Society Membership

- Member of Iranian Genetic Society of Iran, Since 2000.
- Member of Biotechnology Society of Iran, Since 2000.
- Member of Bioinformatics Society of Iran, Since 2012.

Workshops Organized/ Participated

- Workshop lecturer and lab instructor, Recombinant DNA, Agricultural Biotechnology Research Institute, Karaj, Iran, 2000.
- Workshop lecturer, Good Laboratory Practice (GLP), NRCGEB, Tehran, Iran, 2000.
- Lecture in Bioinformatics at the Tarbiat Modares University, Tehran, IRAN.
- Workshop practical organizer, Plant gene transfer and expression, NRCGB, Tehran, IRAN 2001.
- Workshop Lecturer, Plant gene transfer and expression, NRCGB, Tehran, IRAN 2001.
- Workshop Lecturer, Plant Gene Silencing, NRCGB, Tehran, IRAN 2001.
- Workshop Lecturer, Gene cloning and DNA recombination, NRCGEB and ABRI, Karaj 2000.
- Workshop Lecturer, GLP (Good Laboratory Practice), NRCGEB, Tehran, Iran, 2000.
- Workshop Practical Manager, Applications of Bioinformatics in Molecular Biology, NRCGEB, Tehran, Iran, 2002.
- Workshop Practical Manager, Applications of Bioinformatics in Molecular Biology, NRCGEB, Tehran, Iran, 2004.
- Workshop Practical Manager, Applications of Bioinformatics in Molecular Biology, NRCGEB, Tabriz, Iran, 2004.
- Workshop Attended, Citation Management, NIGEB, 2006.
- Workshop Practical Manager, Applications of Bioinformatics in Molecular Biology, NIGEB, Tehran, Iran, 2006.
- Workshop instructor of the online course on, Applications of genomic data in biotechnology, Iranian Biotechnology Society (IBS) E-learning Portal, Tehran, Iran, 2008.

- Workshop practical manager, Applications of Bioinformatics in Molecular Biology, NRCGEB, Tehran, Iran, 2007.
- Workshop practical manager, Potato Transformation and applications, NRCGEB, Tehran, Iran, 2002.
- Workshop instructor, Monoclonal antibody production and application in medicine, NRCGEB, Tehran, Iran, 2003.
- Workshop instructor, Bioinformatic applications, ABRII, Karaj, Iran, 2003.
- Workshop attended Biosafety and risk assessment for the environmental release of GMOs, NIGEB, Tehran, Iran, 2005.
- Workshop attended, BINASIA, NIGEB, Tehran, Iran, 2005.
- Workshop attended, International workshop on Microarray data analysis, IBB, Tehran, Iran, 2006.
- Workshop attended Experimental design and optimization of biotechnology processes using statistical methods, NIGEB, Tehran, Iran, 2006.
- Workshop attended, ProQuest and Springer workshop, NIGEB, Tehran, Iran, 2007.
- Workshop attended, International workshop on Proteomics, Pasture Institute, Tehran, Iran, 2010.
- Bioinformatics Congress 4th Scientific board, NIGEB Tehran, Iran, 2012.
- Workshop organizer, Bioinformatics from Pre Genomics to Post Genomics Era, NIGEB, Tehran, Iran, 2013.
- Workshop lecturer, RNA seq Technology, NIGEB, Tehran, Iran, 2014.
- Workshop Organizer, Bioinformatics: An Introduction to NGS Data (2016). Supported by TWAS.

Honors and Awards

- First rank among B.Sc graduates of Biology, Faculty of Science, University of Kermanshah.
- First rank in M.Sc entrance exam, 1996, Tehran University.
- First rank in PhD entrance exam, 2004.

Language Proficiency

Persian (Native language); **English** (Fluent/**very good**/good),