

Full Name Ali Dehestani
Scientific Position دانشیار
E-Mail a.dehestani@sanru.ac.ir
Department Genetic & Agricultural Biotechnology Institute of Tabarestan
Work phone 33687744-011
Fax 33687577-011
Web Site ---



Conducted Researches

- 1) Comparative study of physiologic, cytological and biochemical changes in response to biotic stresses in resistant and susceptible cucurbits., 2021/11/16
- 2) Evaluation of expression changes, isolation and characterization of genes responsible for biotic stress resistance in wild cucurbits, 2021/11/16
- 3) Study of CRISPR/Cas9 system for development of cucumber plants with higher tolerance against downy mildew, 2021/11/16
- 4) Genetic transformation, expression analysis and evaluation of transgenic plants harboring disease resistance genes from wild cucurbits., 2021/11/16
- 5) Evaluation of the effect of different treatments on quality and postharvest life of citrus fruits and study of underlying biochemical and molecular mechanisms, 2022/01/15
- 6) Evaluation of the effect of different treatments on quality and postharvest life of Pomegranate fruits and study of underlying biochemical and molecular mechanisms, 2022/01/15
- 7) Study of morphophysiological and molecular mechanisms of *Aeluropus littoralis* halophyte under effect of phytohormones and salinity stress, 2024/03/13

Papers in International Journals

- 1) Ghasemi Yousef, Nematzadeh Gorban Ali, Ghasemi Omran Valiollah, Dehestani Ali, Hosseini SOGHRA, 2012/05/06, The effects of explant type and phytohormones on African violet (*Saintpaulia ionantha*) micropropagation efficiency, *Biharean Biologist*, 6, 73-76
- 2) Sharafi Ebrahim, Farmani Jamshid, Pakdin-Parizi Ali, Dehestani Ali, 2018/09/01, In Search of Engineered Prokaryotic Chlorophyllases: A Bioinformatics Approach, *BIOTECHNOLOGY AND BIOPROCESS ENGINEERING*, 23, 507-524
- 3) Ahmadi Vavsari Fahimeh, Farmani Jamshid, Dehestani Ali, 2019/04/24, Recombinant production of a bioactive peptide from spotless smooth-hound (*Mustelus griseus*) muscle and characterization of its antioxidant activity, *MOLECULAR BIOLOGY REPORTS*, 46, 2599-2608
- 4) Mahdavian Morteza, Sarikhani Hasan, Hadadinejad Mehdi, Dehestani Ali, 2019/04/25, Putrescine Effect on Physiological, Morphological, and Biochemical Traits of Carrizo Citrange and Volkameriana Rootstocks under Flooding Stress, *International Journal of Fruit Science*, 19, 1-14
- 5) Rezaei Moshai Masumeh, Bandehagh Ali, Dehestani Ali, Pakdin-Parizi Ali, Golkar Majid, 2020/06/01, Molecular cloning and in-depth bioinformatics analysis of type II ribosome-inactivating protein isolated from *Sambucus ebulus*, *saudi journal of biological sciences*, 27, 1609-1623
- 6) soorni Jahad, Kazemitabar Seyed Kamal, Kahrizi Danyal, Dehestani Ali, Bagheri Nadali, 2021/01/10, Genetic analysis of freezing tolerance in camelina [*Camelina sativa* (L.) Crantz] by diallel cross of winter and spring biotypes, *planta*, 253, 1-11

7) Sharafi Ebrahim, Dehestani Ali, Farmani Jamshid, Pakdin-Parizi Ali, Taheri-Kafrani Asghar, 2021/01/16, Chlorophyllase-catalyzed chlorophyll removal from vegetable oils using recombinant eukaryotic and prokaryotic enzymes, JOURNAL OF THE AMERICAN OIL CHEMISTS SOCIETY, 99, 1-10

8) Rezaei Moshaei Masumeh, Dehestani Ali, Bandehagh Ali, Pakdin-Parizi Ali, Golkar Majid, hid rez, 2021/03/01, Recombinant pebulin protein, a type 2 ribosome-inactivating protein isolated from dwarf elder (*Sambucus ebulus* L.) shows anticancer and antifungal activities in vitro, INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, 174, 352-361

9) Mahdavian Morteza, sarikhani Hasan, Hadadinejad Mehdi, Dehestani Ali, 2021/04/29, Exogenous Application of Putrescine Positively Enhances the Drought Stress Response in Two Citrus Rootstocks by Increasing Expression of Stress-Related Genes, Journal of Soil Science and Plant Nutrition, 21, 1-15

10) Valed Saravi Zahra, Rahimian Heshmatollah, babaeizad Valiollah, Barzegar Ali, Dehestani Ali, 2021/05/15, Biological characteristics and phylogeny of sphingomonad strains associated with citrus trees in Northern Iran, Russian Agricultural Sciences, 47, 606-613

11) haghpanah Mostafa, Babaiean Nadali, Najafi Zarrini Hamid, Pakdin-Parizi Ali, Dehestani Ali, 2021/09/01, Silicon Foliar Exogenous Altered the Activity of Crucial ROS Pathway Enzymes in Tomatoes (*Solanum lycopersicum*), Russian Agricultural Sciences, 47, 485-489

of action, and food application of os165-181 peptide, INTERNATIONAL JOURNAL OF FOOD MICROBIOLOGY, 358, 1-10
Ali, mojtaba mohseny mojtaba mohseny, 2021/09/11, Antimicrobial activity, environmental sensitivity, mechanism

12) Omid bakhsh Amiri Elahe, Farmani Jamshid, Raftani Amiri Zeynab, Dehestani

13) Mortezaia Hamideh, Rahimian Heshmatollah, babaeizad Valiollah, Barzegar Ali, Dehestani Ali, 2021/10/15, Preliminary characterization and phylogeny of sphingomonad occurring on Stone and Pome Fruit Trees in Northern Iran, BIOLOGIA, 1, 3811-3825

14) Rabiei Zahra, Hosseini Siavosh, Dehestani Ali, Pirdashti Hemmatollah, Beiki Farid, 2021/12/31, Exogenous hexanoic acid induced primary defense responses in tomato (*Solanum lycopersicum* L.) plants infected with *Alternaria solani*, SCIENTIA HORTICULTURAE, 295, 1108-110850

15) Bagheri Mohammad amin, Kazemitabar Seyed Kamal, Dehestani Ali, MehrabanJoubani Pooyan, Naghizadeh Mohammad Mehdi, Masoudi Nejad Ali, 2022/01/18, Insight into gene regulatory networks involved in sesame (*Sesamum indicum* L.) drought response, BIOLOGIA, 48, 1-16

16) Bagheri Mohammad Amin, Kazemitabar Seyed Kamal, Dehestani Ali, MehrabanJoubani Pooyan, Najafi Zarrini Hamid, 2022/09/30, Assessment of agro-morphological traits and yield-based tolerance indices in sesame (*Sesamum indicum* L.) genotypes under drought stress, INDIAN JOURNAL OF GENETICS AND PLANT BREEDING, 82, 324-332

17) soorni Jahad, Kazemitabar Seyed Kamal, Dehestani Ali, Bagheri Nadali, Kahrizi Danyal, Kiss Atilla, Papp Istvan, Gergo Kovacs Peter, Mirmazloum Iman, 2022/11/21, Biochemical and Transcriptional Responses in Cold-Acclimated and Non-Acclimated Contrasting Camelina Biotypes under Freezing Stress, Plants-Basel, 11, 3178

18) Bagheri Mohammad Amin, Kazemitabar Seyed Kamal, Dehestani Ali, MehrabanJoubani Pooyan, 2023/09/01, Sesame (*Sesamum indicum* L.) response to drought stress: susceptible and tolerant genotypes exhibit different physiological, biochemical, and molecular response patterns, PHYSIOLOGY AND MOLECULAR BIOLOGY OF PLANTS, 29, 1353-1369

19) Rasuli Nasim, Riahi Karim, AghaShariatmadari Zeinab, Ghorbani Nohooji Majid, Dehestani Ali, MehrabanJoubani Pooyan, 2024/03/06, Growth enhancement, metabolic profile improvement, and <sc></sc>DXR</sc> and <sc></sc>TPS2</sc> gene expression changes in <sc></sc>Thymus vulgaris</sc> L. by cyanobacterial inoculation, JOURNAL OF THE SCIENCE OF FOOD AND AGRICULTURE, 0, 0-0

20) haghpanah Mostafa, Babaiean Nadali, Najafi Zarrini Hamid, Pakdin-Parizi Ali, Dehestani Ali, 2024/07/19, New insights into azelaic acid-induced resistance against *Alternaria Solani* in tomato plants, BMC PLANT BIOLOGY, 24, 687-687

21) Rasuli Nasim, Riahi Hossein, AghaShariatmadari Zeinab, Ghorbani Nohooji Majid, MehrabanJoubani Pooyan, Dehestani Ali, 2025/01/06, Enhancing thymol and carvacrol biosynthesis in *Thymus vulgaris* L. using *Laurencia caspica* seaweed extract: Biostimulant potential and gene expression insights, *JOURNAL OF APPLIED PHYCOLOGY*, 37, 645-657

22) haghpanah Mostafa, Babaiean Nadali, Najafi Zarrini Hamid, Pakdin-Parizi Ali, Dehestani Ali, 2025/03/11, Azelaic acid Enhances Tomato Resistance to *Alternaria solani* via Defense Responses and Lignin Biosynthesis, *PHYSIOLOGICAL AND MOLECULAR PLANT PATHOLOGY*, 1, 1-1

Papers in National Journals

1) Dolatabadi Behnaz, Ranjbar Farahabadi Gholam Ali, tohidfar masood, Dehestani Ali, 2012/09/12, Genetic transformation of Tomato with three pathogenesis-related protein genes increased resistance to *Fusarium oxysporum* f.sp., *journal of plant molecular breeding*, 2, 1-11

2) Dolatabadi Behnaz, Ranjbar Farahabadi Gholam Ali, Tohidfar masud, Dehestani Ali, 2014/06/01, Genetic transformation of Tomato with three pathogenesis-related protein genes for increased resistance to *Fusarium oxysporum* f.sp.lycopersici, *journal of plant molecular breeding*, 2, 1-11

3) Mohseni Azadeh, Nematzadeh Gorban Ali, Dehestani Ali, Shahin-kaleybar Behzad, Soleimani Elham, 2016/06/20, Isolation, molecular cloning and expression analysis of *Aeluropus littoralis* Monodehydroascorbate reductase (MDHAR) gene under salt stress, *journal of plant molecular breeding*, 4, 80-72

4) Rafati Alashti Mahsa, Baradaran firooz abadi Mehdi, Dehestani Ali, Qolami Ahmad, 2019/03/02, Citric acid and hydrogen sulfide application reduce silver nanoparticles damage in green bean (*Phaseolus vulgaris*) plants, *journal of plant molecular breeding*, 7, 101-114

5) Zare Moslem, Nematzadeh Gorban Ali, Kazemitabar Seyed Kamal, Dehestani Ali, babaeizad Valiollah, 2019/03/15, Differential expression of CsWRKY genes reduced damage in Soy protein hydrolysate-treated cucumber plants infected with *Fusarium oxysporum*, *crop breeding journal*, 8, 85-98

6) Mofidnakhaei Maryam, Abdossi Vahid, Dehestani Ali, Pirdashti Hemmatollah, babaeizad Valiollah, 2021/01/02, Enhanced defense responses in *Pythium ultimum*-challenged cucumber plants induced by potassium phosphite, *journal of plant molecular breeding*, 6, 24-33

7) Mahdavian Morteza, sarikhani Hasan, Hadadinejad Mehdi, Dehestani Ali, 2021/07/01, Biochemical and morphological response of Carrizo citrange and Volkameriana rootstocks to putrescine and water stress, *Acta Horticulturae*, 1315, 55-62

8) Valizade Hamid, Navabpour Saeid, Dehestani Ali, MehrabanJoubani Pooyan, 2023/12/13, Exogenous hydrogen peroxide enhanced corn (*Zea mays* L.) plants response to drought stress, *journal of plant molecular breeding*, 10, 1-14

9) Esfehiani Leila, babaeizad Valiollah, Rahimian Heshmatollah, Dehestani Ali, 2023/12/25, Alterations in antioxidant enzyme activities in rice plants treated with various abiotic inducers against the bacterial blight agent *Xanthomonas oryzae* pv. *oryzae*, *journal of plant molecular breeding*, 11, 41-53

10) Maleki-nejad Reza, Najafi Zarrini Hamid, Ranjbar Farahabadi Gholam Ali, Dehestani Ali, Rahimian Heshmatollah, 2024/03/13, Elicitor-Induced Defense Responses in Tomato Plants Against *Xanthomonas gardneri*, *Journal of plant, algae and environment*, 8, 1277-1297

11) Arefrad Mehdi, Babaiean Nadali, Nematzadeh Gorban Ali, Dehestani Ali, Gorji Elahe, 2024/12/01, KTI and BBI protease inhibitor in seed storage protein of Iranian soybean cultivars, *journal of plant molecular breeding*, 12, 95-107

12) Pirdashti Hemmatollah, jolai mahsa, Dehestani Ali, babaeizad Valiollah, MehrabanJoubani Pooyan, 2025/04/21, Nitric oxide-induced modulation of physiological and molecular responses in tomato (*Solanum lycopersicum* L.) plants infected with *Xanthomonas perforans*, *journal of plant molecular breeding*, 13, 39-59

13) Moradi Hossein, Asgari Shyma, Dehestani Ali, Ghasemi Kamran, 2025/12/08, Interaction of Nitrogen and Ethephon on Female Flower Formation and Cs-ACS2 Gene Expression in Cucumber (*Cucumis sativus* L.), *international journal of horticultural science and technology*, 13, 325-334

14) bedinpour Hanieh, Babaiean Nadali, Dehestani Ali, Nematzadeh Gorban Ali, 2021/02/03, Effect of exogenous Salicylic Acid and Azelaic Acid on some biochemical and molecular responses to downy mildew disease in *Cucumis sativus* L., None, 32, 1-15

15) Chalekaei Maryam, Dehestani Ali, Abbasi Ali reza, Hashemi-petroudi seyed Hamidreza, 2021/03/20, Identification and evaluation of relation between regulatory elements of the promoter region of DVL gene family and gene expression in *Aeluropus littoralis*, None, 10, 95-109

16) gholami farah abadi mohaddese, Ranjbar Farahabadi Gholam Ali, Dehestani Ali, Bagheri Nadali, 2021/04/04, Investigation of Qualitative Traits and Genes Expression Involved in Bakery Quality for Some of the Bread's Wheat Doubled Haploid Lines, None, 8, 151-168

17) Bagheri Mohammad amin, Kazemitabar Seyed Kamal, Dehestani Ali, MehrabanJoubani Pooyan, Najafi Zarrini Hamid, 2021/09/05, Comprehensive analysis of ERF transcription factor family and their expression in sesame under abiotic stresses, None, 10, 1-21

18) Chalekaei Maryam, Abbasi Ali reza, Dehestani Ali, 2021/10/12, Hormonal changes of *Aeluropus littoralis* halophyte plant in response to salt stress, None, 1, 177-192

19) Rafati Alashti Mahsa, Baradaran firooz abadi Mehdi, Dehestani Ali, Gholami Ahmad, Parsa Mehdi, 2021/10/13, Morphological and physiological response of green bean plant to foliar application of citric acid and hydrogen sulfide under nanosilver stress, None, 10, 283-300

20) Bagheri Mohammad Amin, Kazemitabar Seyed Kamal, Dehestani Ali, MehrabanJoubani Pooyan, Najafi Zarrini Hamid, 2022/02/07, Drought tolerance assessments in sesame (*sesamum indicum*) genotypes via seed germination assays under drought stress, None, 1, 37-54

21) Bagheri Mohammad Amin, Kazemitabar Seyed Kamal, Dehestani Ali, MehrabanJoubani Pooyan, Najafi Zarrini Hamid, 2022/02/20, Evaluation of drought tolerance in sesame (*Sesamum indicum* L.) genotypes using germination traits and indices under drought conditions, None, 16, 37-54

Presented Papers in International Conferences

1) Dehestani Ali, ganbari Ali, ghasemi sayad hadi, Babaiean Nadali, Nematzadeh Gorban Ali, Kazemitabar Seyed Kamal, 5th international iran and Russia conferences 24-25 september 2009, poster presentation, brief article, Adventitious shoot induction and plant regeneration from Thomson navel (*Citrus sinensis* Osbeck.cv.thomson) mature tissues, 2009/10/08, 2009/10/09

2) Moradi Namdar, Rahimian Heshmatollah, Dehestani Ali, babaeizad Valiollah, shabani samira, 2nd international and 10th national biotechnology congress of Islamic republic of Iran, poster presentation, complete article, cDNA-AFLP-based Comparative analysis of differentially regulated genes in resistant and susceptible cucumber cultivars infected with *Sphaerotheca fuliginea*, 2017/08/29, 2017/09/01

3) Moradi Namdar, Rahimian Heshmatollah, Dehestani Ali, babaeizad Valiollah, Shabani Samira, First International Conference on Modern Technologies in Sciences, poster presentation, complete article, Differential gene expression analysis in cucumber (*Cucumis sativus* L.) infected with *Sphaerotheca fuliginea*: a cDNA-AFLPbased study, 2017/09/07, 2017/09/07

4) Moradi Namdar, Rahimian Heshmatollah, Dehestani Ali, babaeizad Valiollah, Shabani Samira, First International Conference on Modern Technologies in Sciences, poster presentation, complete article, Control of cucumber powdery mildew caused by *Sphaerotheca fuliginea* by potassium phosphite, 2017/09/07, 2017/09/07

5) Mahdavian Morteza, sarikhani Hasan, Hadadinejad Mehdi, Dehestani Ali, First International Horticultureal Scienc Conference of Iran (IrHC2017), poster presentation, brief article, Effect of putrescine on some physiological and morphological traits under drought stress in Carrizo Citrange and Volkameriana rootstocks, 2017/09/04, 2017/09/07

6) Dehestani Ali, Ramezani Moazame, Rahmani Fatemeh, Shabani Samira, Fifth International Conference on Agricultural Science (ICAS), announcer, complete article, Potassium phosphite enhanced defense responses in downy-mildew infected cucumber (*Cucumis sativus* L.) plants, 2018/02/01, 2018/02/02

7) Jeedi yazdan abad Shaghayegh, Dehestani Ali, Najafi Zarrini Hamid, The 1st International Congress and the 13th Iranian Genetics Congress, poster presentation, complete article, PGIP coding gene transfer into tobacco plants to build up resistance to fungal pathogens, 2014/05/24, 2014/05/26

8) Rezaei Masoumeh, Dehestani Ali, Bandehagh Ali, Pakdin-Parizi Ali, Golkar Majid, 2nd International Conference on Modern Technologies in Sciences, poster presentation, brief article, Heterologous expression of ebulin I ribosome inactivating protein of sambucus ebulus in E. coli, 2019/03/13, 2019/03/13

9) bedinpour Hanieh, Babaiean Nadali, Dehestani Ali, Nematzadeh Gorban Ali, Seventh national congress of agriculture, poster presentation, complete article, WRKY genes expression assay in cucumber plants infected with downy mildew, 2022/01/25, 2022/01/27

10) bedinpour Hanieh, Babaiean Nadali, Dehestani Ali, Nematzadeh Gorban Ali, Seventh national congress of agriculture, poster presentation, complete article, Genome editing technology for disease resistance in plants, 2022/01/25, 2022/01/27

11) bedinpour Hanieh, Babaiean Nadali, Dehestani Ali, Nematzadeh Gorban Ali, Seventeenth National Congress and Third International Congress of Iranian Crop Science and Plant Breeding, poster presentation, complete article, Use of genome editing technology to increase resistance to plant diseases, 2022/01/25, 2022/01/27

Presented Papers in National Conferences

1) ghasemi yousef, Ghasemi Omran Valiollah, Nematzadeh Gorban Ali, Dehestani Ali, hashemi petrodi seyed hamidreza, Seventh Iranian Horticultural Science Congress, poster presentation, brief article, Increasing intraperitoneal violet propagation efficiency of African violet: Effect of explants and hormonal compounds, 2011/09/05, 2011/09/08

2) Jeedi yazdan abad Shaghayegh, Najafi Zarrini Hamid, Dehestani Ali, 12th Iranian Genetics Congress, poster presentation, complete article, Compatible promoter with gene networks involved in tolerance to fungal diseases, 2012/05/21, 2012/05/23

3) Jeedi yazdan abad Shaghayegh, Najafi Zarrini Hamid, Dehestani Ali, 3rd Iranian Agricultural Biotechnology Congress, poster presentation, complete article, Isolation, cloning and study of PGIP gene structure isolated from wild melon, 2012/09/03, 2012/09/05

4) Ghorbanpor Akram, Salimi Azam, Tajick Ghanbary Mohammad Ali, Pirdashti Hemmatollah, Dehestani Ali, National conference of climate change effect on plant production, poster presentation, complete article, Cold stress on cytoplasmic membrane and photosynthetic pigments integrity in tomato (*Lycopersicon esculentum* Mill.) cultivars., 2016/09/08, 2016/09/08

5) Ghorbanpor Akram, Salimi Azam, Tajick Ghanbary Mohammad Ali, Pirdashti Hemmatollah, Dehestani Ali, National conference of climate change effect on plant production, poster presentation, complete article, Investigation the effect of *Trichoderma harzianum* fungi on TAS14 gene expression in tomato (*Lycopersicon esculentum* Mill.) under cold stress., 2016/09/08, 2016/09/08

6) Moradi Namdar, Dehestani Ali, Rahimian Heshmatollah, babaeizad Valiollah, National Conference on Research and Technology Finding in Natural and Agricultural Ecosystems, poster presentation, complete article, Assessment of potassium phosphite control effect on cucumber powdery mildew caused by *Sphaerotheca fuliginea*, 2016/10/19, 2016/10/19

7) Moradi Namdar, Dehestani Ali, Rahimian Heshmatollah, babaeizad Valiollah, National Conference on Research and Technology Finding in Natural and Agricultural Ecosystems, poster presentation, complete article, Assessment of cucumber cultivars for resistance to powdery mildew caused by *S. fuliginea*, 2016/10/19, 2016/10/19

8) Asgari Shyma, Moradi Hossein, Dehestani Ali, Ghasemi Kamran, The first national conference on novel ideas in agriculture and natural resources, poster presentation, complete article, Evaluation of flower hybrid of cucumber farm under nitrogen and ethene treatment, 2018/11/14, 2018/11/14

9) Asgari Shyma, Moradi Hossein, Dehestani Ali, Ghasemi Kamran, The first national conference on novel ideas in agriculture and natural resources, poster presentation, complete article, Effect of nitrogen nutrition and ethephon on some photosynthetic parameters of cucumber, 2018/11/14, 2018/11/14

10) youseftabar somayeh, Nematzadeh Gorban Ali, araghi abdorahyim, Dehestani Ali, haghpanah Mostafa, 7th National Conference on Applied Research in Agricultural Sciences, announcer, complete article, Comparison of the efficiency of different RNA extraction methods in susceptible plant (*Mimosa pudica* L.), 2020/01/15, 2020/01/15

11) haghpanah Mostafa, Babaiean Nadali, Najafi Zarrini Hamid, Dehestani Ali, Pakdin-Parizi Ali, 7th National Conference on Applied Research in Healthy Food Sciences from Farm to Table, poster presentation, complete article, The effect of different concentrations of silicone foliar application on the activity of some tomato antioxidant enzymes, 2020/01/15, 2020/01/15

12) bedinpour Hanieh, Babaiean Nadali, Dehestani Ali, Nematzadeh Gorban Ali, 21th National & 9th International Congress on Biology, poster presentation, complete article, Study of the effect of azelaic acid on phenyl alanine ammonia lyase enzyme activity in response to cucumber downy mildew, 2021/02/16, 2021/02/19

13) Rahimi Soheila, MehrabanJoubani Pooyan, Barzegar Ali, Dehestani Ali, 5th international conference on the new horizons in the agricultural, natural resources and environment, poster presentation, complete article, Study of the iron and ethanol treatment on biomass and phenylalanine ammonia-lyase activity of stevia, 2022/02/21, 2022/02/21

14) Rahimi Soheila, MehrabanJoubani Pooyan, Barzegar Ali, Dehestani Ali, 5th international conference on the new horizons in the agricultural, natural resources and environment, poster presentation, complete article, study of the peroxidases level of the stevia following treatment with iron and ethanol, 2022/02/21, 2022/02/21

Awards & Honors (in terms of: paper, project, etc...)

1) Top researcher of University, in university, research festival, 2018/12/21