

PERSONAL INFORMATION

Name: Sara

Surname: Taleahmad

Date of birth: June 16th, 1983

Marital status: Married

Last updated: December 10, 2024



EMPLOYMENT:

- Assistant Professor, Royan Institute for Stem Cell Biology & Technology (2019-now).
- Production manager of Royan Biotechnology Center (2021-now).
- Researcher at Royan Institute for Stem Cell Biology and Technology (2010-2017).

PRESENT ADDRESS:

Department of Stem Cells and Developmental Biology, Cell Science Research Center, Royan Institute for Stem Cell Biology and Technology, ACECR, Tehran, Iran.

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EDUCATIONAL AND ACADEMIC RECORDS

- ✓ 2012-2017, **PhD.** in Systems Biomedicine, Faculty of basic science and biotechnology, Royan Institute, Tehran, Iran with average 19.40 of 20 and mark of thesis 20 of 20.
- ✓ 2005-2008, **M.Sc.** in Plant Biotechnology, Imam Khomeini International University of Qazvin, Iran, with average 18.46 of 20 and mark of thesis 19.80 of 20.
Thesis Title: Study of silicon effects on wheat cultivars under drought stress.
- ✓ 2001-2005, **B.Sc.** in Agronomy and Plant Breeding at Bu-Ali sina University of Hamedan, Iran, with 16.86 of 20.

HONORS

- ❖ Top Project Manager of ACECR (Jahad-e Daneshgahi) in 2024.
- ❖ **Top Researcher** in Royan Institute, 2018.
- ❖ **First Rank** of PhD. Thesis in Stem Cell Field, IRAN, 2018.
- ❖ **Student** in Imam Khomeini International University of Qazvin in 2007-2008.
- ❖ The **Top Researcher** in 6th Innovation and prosperity festival in Qazvin in 2008.

LANGUAGES

Persian and English

PROJECTS

- 1- Study of Gene Expression Profile in Non-Invasive and Invasive Retinoblastoma
- 2- Production of drug-based monoclonal antibody.
- 3- Production of functional recombinant protein.
- 4- Proteome analysis of mouse ground state pluripotency.
- 5- Investigate the role of Ccar1 in the self-renewal and maintenance of the mESC.
- 6- Investigation on the role of Zmym2 in the self-renewal and maintenance of the mESCs.
- 7- Proteomic evaluation of endometrium in PCOS in compare to normal cases.
- 8- Raising specific antibodies against male specific regions of Y chromosome encoded proteins.
- 9- Expression profiling of the MSY genes and isoforms in the testes of patients with impairment of spermatogenesis.
- 10- Cloning, expression and production of GDNF, VEGF, PDGF, KGF, and IGF Growth Factor for using in Stem Cell technology.
- 11- Role of TSPY and SMCY in male specific cancers.
- 12- Investigation the gene expression profile of pluripotent mouse embryonic stem cells treated with BMP4 signaling inhibitors.
- 13- Differential analysis of gene expression profiles of naïve and primed human embryonic stem cells for reconstructing their metabolic networks and comparatively simulating their metabolic states.

LABORATORY EXPERIENCE

- 1- Professional in high-throughput analysis data.

- 2- Professional in gene cloning, recombinant protein production, immunohistochemistry, western blot, 2D gel.
- 3- Professional in cell culture and cell signaling mechanism.
- 4- Professional in Lab systems such as, HPLC and FPLC System, PCR, Real time PCR.
- 5- Professional in analysis measurement of macro and micro elements, Carbohydrates, Proteins, Amino acids, Hormones (ABA, IAA, GA), Antioxidants (Ascorbat, MDA,...), Enzymes (CAT, PRX, SOD,...), etc.

TEACHING AND TRAINING EXPERIENCES

- 1- Teacher of **Genomics and Proteomics**, 2019-22, PhD. Course. Faculty of basic science and biotechnology, Royan Institute, Tehran, Iran.
- 2- Teacher of **Systems Biology**, 2021-22, PhD. and MSc. Course. University of Science and Culture, Tehran, Iran.
- 3- Teacher of **Bioinformatics**, 2016-22, PhD. and MSc. Course. University of Science and Culture, Tehran, Iran.
- 4- Teacher of **Bioinformatics**, 2017-22, PhD. Course. Faculty of basic science and biotechnology, Royan Institute, Tehran, Iran.
- 5- Teacher of **Epigenetic in development**, 2018-2020, Department of Stem Cell, Royan Institute, Tehran, Iran.
- 6- Teacher of **Genetic**, 2008-12, Department of Agriculture, Payam Nour University, Qazvin, Iran.
- 7- Teacher of **Probability and Statistics**, 2008-12, Department of Agriculture, Payam Nour University, Qazvin, Iran.
- 8- Teacher of **Biological Statistics**, 2008-12, Department of Agriculture, Payam Nour University, Qazvin, Iran.
- 9- Teacher of **Plant Biology**, 2008-12, Department of Agriculture, Payam Nour University, Qazvin, Iran.
- 10- Teacher of **Plant Biology Laboratory**, 2008, Department of Agriculture, Payam Nour University, Qazvin, Iran.
- 11- Teacher of Workshop "**Bioinformatics workshop: Introduction to differential gene expression analysis**", January 9th, 2019, Royan Institute, Tehran, Iran.
- 12- Teacher of Workshop "**Application of HPLC in Food Industrial**", January 14-15, 2008, Agricultural Biotechnology Research Institute of Iran, Karaj, Iran.

13- Teacher of Workshop “**The Second Workshop on Western Blot Analysis**”, October 15th to 16th, 2012, Royan Institute, Tehran, Iran.

14- Teacher of Workshop “**The Second Workshop on Two-Dimensional Electrophoresis**” September 17th to 19th, 2012, Royan Institute, Tehran, Iran.

ADMINISTRATIVE EXPERIENCES

- 1- Scientific Chairperson in **13th Royan Summer School on Bioinformatics in Biomedical Research**. 20-24 August.
- 2- Worked on Cell Line Development for Therapeutic Protein Production Project.
- 3- Worked on International protein project of human chromosome Y.
- 4- Production of human recombinant proteins (EGF- SHH- IGF-KGF-SMCX-UTX-TGIFXY-HSFX-TBLX-DAZL).

THESIS MENTORSHIP

PhD students:

- *Supervisor*: 2 ongoing
- *Advisor*: 1 ongoing, 1 finished

MSc students:

- *Supervisor*: 4 ongoing, 10 finished
- *Advisor*: 2 ongoing, 4 finished

RESEARCH PUBLICATIONS

Book

- 1- **Applied Bioinformatics**, 2023, *Khaneh Zist Shenasi Press*.
- 2- Pluripotent Stem Cells (Stem Cells and Regenerative Medicine Book Series), 2021, *Khaneh Zist Shenasi Press*.

Papers in Journals

- 1- Pedram Asadi Sarabi, Elham Rismani, Mahshid Shabanpouremam, Sara Taleahmad, Massoud Vosough. **2025**, Developing a multi-epitope vaccine against Helicobacter Pylori. *Human Immunology*, Volume 86, Issue 1.
- 2- Fatemeh Taleahmad, Mohsen Khalili, Narges Haddadzadeh-Niri, Ensyie Joneidi, Sara Taleahmad, Mehrdad Roghani. **2024**, *Reproductive Biology*, 24 (4), 100966.
- 3- Mohammad Hossein Derakhshan Nazari, Parnian Ghaedi Talkhounche, Ronak Heidarian, Mina Masoudnia, Rana Askari Dastjerdi, Sara Taleahmad. Targeting GLI1 and BAX by nanonoscaphine could impede prostate adenocarcinoma progression. **2024**. *Scientific Reports* 14, 18977.
- 4- Ahmad Bereimipour, Saeed Karimi, Mohammad Faranoush, Amir Abbas Hedayati Asl, Monireh Sadat Miri, Leila Satarian, Sara Taleahmad. Identification of miR-20a as A Potential Discerning Biomarker for Non-Invasive versus Invasive Retinoblastoma. **2024**, *Cell J*, 7 (26):4, 250-258.

- 5- Amir Mokhlesi, Zahra Sharifi, Ahmad Berimipour, **Sara Taleahmad**, Mahmood Talkhabi Identification of hub genes and microRNAs with prognostic values in esophageal cancer by integrated analysis. **2023**, *Non-coding RNA Research*, 8 (3); 459-470.
- 6- Sepideh Mandegarfar, Ali Moradi, Ahmad Bereimipour, Mohammad Hoseinian, **Sara Taleahmad**. Selection of MicroRNAs Associated between Neural Stem Cells and Multiple Sclerosis. **2022**, *Galen Medical Journal*, 11 (2) 2497-2497.
- 7- Zahra Sharifi, Mahmood Talkhabi, **Sara Taleahmad**. Identification of potential microRNA diagnostic panels and uncovering regulatory mechanisms in breast cancer pathogenesis. **2022**, *Scientific Reports*, 12 (1) 1-18.
- 8- Roya Ramezankhani, Afshin Abdi Ghavidel, Saadyeh Rashidi, Mahbubeh Rojhannezhad, Malihe Mirhosseini, **Sara Taleahmad**, Massoud Vosough. Gender-Related Differentially Expressed Genes in Pancreatic Cancer; Possible culprits or accomplices? **2022**, *Frontiers in Genetics*, 3061.
- 9- **Sara Taleahmad**, Ali Salari, Azam Samadian, Se Hyun Chae, Daehee Hwang, Bonghee Lee, Delger Bayarsaikhan, Govigerel Bayarsaikhan, Jaesuk Lee, Ji Hwan Park, Seyedeh-Nafiseh Hassani, Hossein Baharvand, Ghasem Hosseini Salekdeh. BMP4 signaling plays critical roles in self-renewal of R2i mouse embryonic stem cells. **2022**. *Biochemical and Biophysical Research Communications*.
- 10- Mohamad Hosein Derakhshan Nazari, Rana Askari Dastjerdi, Parnian Ghaedi Talkhouncheh, Ahmad Bereimipour, Hamidreza Mollasalehi, Amir Ali Mahshad, Ali Razi, Mohammad Hossein Nazari, Amin Ebrahimi Sadrabadi **Sara Taleahmad***. Discovering GPX2 and BMP4 as Significant Molecular Alterations in Lung Adenocarcinoma Progression. **2022**. *Cell Journal (YAkhteh)*.
- 11- Roya Ramezankhani, Neda Minaei, Mahnaz Haddadi, Roya Solhi, **Sara Taleahmad***¹. The impact of sex on susceptibility to systemic lupus erythematosus and rheumatoid arthritis; a bioinformatics point of view. **2021**. *Cellular signaling*, 88, 110171.
- 12- Ahmad Bereimipour, Leila Satarian, **Sara Taleahmad***. Investigation of Key Signaling Pathways Associating miR-204 and Common Retinopathies. **2021**. *BioMed Research International*, doi.org/10.1155/2021/5568113.
- 13- Neda Daei-Farshbaf, Reza Aflatoonian, Fatemeh-sadat Amjadi, Hossein Nikniz, **Sara Taleahmad**, Mehrdad Bakhtiyari. Identification of calcineurin as a predictor of oocyte quality and fertilization competence based on microarray data. **2021**. *Computational Biology and Chemistry*, 94 (107561).
- 14- Fatemeh Khodabandehloo, **Sara Taleahmad**, Reza Aflatoonian, Farzad Rajaei, Zahra Zandieh, Marjan Nassiri-Asl, Mohamadreza Baghaban Eslaminejad. Microarray analysis identification of key pathways and interaction network of differential gene expressions during osteogenic differentiation. **2020**. *Human genomics*, 14(1): 1-13.
- 15- Neda Farshbaf, Reza Aflatoonian, F. Amjadi, **Sara Taleahmad**, Mahnaz Ashrafi, Mehrdad Bakhtiyari. Expression pattern of olfactory receptor genes in human cumulus cells as an indicator for competent oocyte selection. **2020**. *Turkish Journal of Biology*, 44: 6:371-380.

¹ * Corresponding Author

- 16- Mehdi Alikhani, Fatemehsadat Amjadi, Mehdi Mirzaei, Yunqi Wu, Faezeh Shekari, Mahnaz Ashrafi, Mehdi Mehdizadeh, Matthew McKay, **Sara Taleahmad**, Samaneh Aghajanpour, Vivek Gupta, Hossein Baharvand, Reza Aflatoonian, Ghasem Hosseini Salekdeh. Proteome analysis of endometrial tissue from patients with PCOS reveals proteins predicted to impact the disease. **2020**. *Molecular Biology Reports*, 47 (11): 8763-8774.
- 17- Sara Taleahmad, Mehdi Alikhani, Sepideh Mollamohammadi, Meisam Yousefi, Adeleh Taei, Seyedeh Nafiseh Hassani, Hossein Baharvand, Ghasem Hosseini Salekdeh **2019**. Inhibition of Human Y Chromosome Gene, SRY, Promotes Naïve State of Human Pluripotent Stem Cells. *Journal of Proteome Research*, 4; 12 (1):6-22
- 18- Seyedeh-Faezeh Moraveji, Fereshteh Esfandiari, **Sara Taleahmad**, Saman Nikeghbalian, Forough-Azam Sayahpour, Najmeh-Sadat Masoudi, Abdolhossein Shahverdi, Hossein Baharvand. **2019**. Suppression of transforming growth factor- β signaling enhances spermatogonial proliferation and spermatogenesis recovery following chemotherapy. *Human Reproduction*.
- 19- Meisam Yousefi, Sayed-Amir Marashi, Ali Sharifi-Zarchi, **Sara Taleahmad**. **2019**. The metabolic network model of primed/naive human embryonic stem cells underlines the importance of oxidation-reduction potential and tryptophan metabolism in primed pluripotency. *Cell & Bioscience*, 9:71.
- 20- Fatemehsadat Amjadi, Ensieh Salehi Zahra Zandieh, Mandana Rashidi, **Sara Taleahmad**, Mojgan Javedani, Reza Aflatoonian, Mehdi Mehdizadeh. **2019**. Comparative evaluation of NOTCH signaling molecules in the endometrium of women with various gynecological diseases during the window of implantation. *Iran J Basic Med Sci.*, 22.
- 21- Moraveji SF, Esfandiari F, Sharbatoghli M, **Taleahmad S**, Nikeghbalian S, Shahverdi A, Baharvand H. Optimizing methods for human testicular tissue cryopreservation and spermatogonial stem cell isolation. *J Cell Biochem*. **2019** Sep 22. doi: 10.1002/jcb.27419.
- 22- Hassani SN., Moradi Sh., **Taleahmad S**, Baharvand H. **2019**. Transition of Inner Cell Mass to Embryonic Stem Cells: Mechanisms, Facts, and Hypotheses. *Cellular and Molecular Life Sciences*.
- 23- Mardpour S, Hamidieh AA, **Taleahmad S.**, Sharifzad F, Taghikhani A, Baharvand H. **2019**. Interaction between mesenchymal stromal cell-derived extracellular vesicles and immune cells by distinct protein content. *J Cell Physiol*. Oct 30. doi: 10.1002/jcp.27669.
- 24- **Taleahmad S.**, Hassani S.N., Hosseini Salekdeh Gh., Baharvand H. **2018**. Metabolic Signature of Pluripotent Stem Cells. *Cell Journal (Yakhteh)*, 20 (3) 388-395.
- 25- Ghazizadeh Z, Fattahi F, Mirzaei M, Bayersaikh D, Lee J, Chae S, Hwang D, Byun K, Tabar MS, **Taleahmad S.**, Mirshahvaladi S, Shabani P, Fonoudi H, Haynes PA, Baharvand H, Aghdami N, Evans T, Lee B, Salekdeh GH. Prospective Isolation of ISL1+ Cardiac Progenitors from Human ESCs for Myocardial Infarction Therapy. **2018**, *Stem Cell Reports*. Mar 13;10(3):848-859. doi: 10.1016/j.stemcr.2018.01.037.

- 26- Karamali F, Esfahani MN, **Taleahmad S.**, Satarian L, Baharvand H. Stem cells from apical papilla promote differentiation of human pluripotent stem cells towards retinal cells. **2018**. *Differentiation*. Mar 2;101:8-15. doi: 10.1016/j.diff.2018.02.003.
- 27- Amjadi F, Mehdizadeh M, Ashrafi M, Nasrabadi D, **Taleahmad S.**, Mirzaei M, Gupta V, Salekdeh GH, Aflatoonian R. Distinct changes in the proteome profile of endometrial tissues in polycystic ovary syndrome compared with healthy fertile women. **2018**, *Reprod Biomed Online*. 37(2):184-200. doi: 10.1016/j.rbmo.2018.04.043. Epub 2018 Apr 21.
- 28- **Taleahmad S.**, Rezaiani S., Sayadmanesh A., Naghavi M., Habibi Rezaei L., Gharaati MR. Production and Functional Characterization of Human- Like Growth Factor-1. **2018**. *Biological Science*. ISI
- 29- **Taleahmad S.**, Mirzaei M., Samasian A., Hassani S.A., Haynes P.A., Hosseini Salekdeh GH., Baharvand H., **2017**. Low Focal Adhesion signaling Promotes Ground State Pluripotency of Mouse Embryonic Stem Cells. *Journal of Proteome Research*, 16 (10) 3585-3595.
- 30- Yakhkeshi S, Rahimi S, Sharafi M, Hassani SN, **Taleahmad S.**, Shahverdi A, Baharvand H. In vitro improvement of quail primordial germ cell expansion through activation of TGF-beta signaling pathway. **2017**. *J Cell Biochem*. 2017 Dec 15. doi: 10.1002/jcb.26618.
- 31- **Taleahmad S.**, Mirzaei M., Lindsay M. Parker, Hassani S.N., Mollamohammadi S., Sharifi-Zarchi A., Haynes P.A., Baharvand H., Hosseini Salekdeh Gh. **2015**. Proteome Analysis of Ground State Pluripotency. *Scientific Reports*, 5, 17985.
- 32- Zaniar Ghazizadeh, Faranak Fattahi, Mehdi Sharifi, **Sara Taleahmad**, Parisa Shabani, Shahab Mirshahvaladi, Hossein Baharvand, Nasser Aghdami, Ghasem H Salekdeh. **2015**. Molecular Characterization and Prospective Isolation of Human Secondary Heart Field Progenitors from Pluripotent Stem Cells. *Circulation Research*. 117:A312.
- 33- Jangravi, Z; Alikhani, M; Arefnejad, B; Sharifi Tabar, M; **Taleahmad, S**; Karamzadeh, R; Jadalilha, M; Mousavi, S.A; Ahmadi Rastegar, D; Parsamatin, P; Vakilian, H; Mirsh S; Sabbaghian, M; Mohseni Meybodi, A; Mirzaei, M; Shahhoseini, M; Ebrahimi, M; Piryaee, A; Moosavi-Movahedi, Ali; Haynes, P; Goodchild, A; Nasr-Esfahani, M.H; Jabbari, E; Baharvand, H; Sedighi Gilani, M; Gourabi, H; Salekdeh, G. **2013**. A Fresh Look at the Male-specific Region of the Human Y Chromosome. *Journal of Proteome Research*, 4; 12 (1):6-22
- 34- **Taleahmad S.**, Khosh Kholgh Sima N.A., and Mirzaei. H. **2013**. Effect of sodium chloride on physiological aspect of *Salicornia persica* growth. *Journal of Plant Nurtition*, 36 (3): 401 - 414. ISI.
- 35- **Taleahmad S.**, Haddad R. **2011**. Study of Silicon Effects on Antioxidant Enzyme Activities and Osmotic Adjustment of Wheat under Drought Stress. *Czech J. Genet. Plant Breed*, 47 (1): 17–27. ISI.

- 36- **Taleahmad S.**, Haddad R. **2010**. Effect of Silicon on Antioxidant Enzymes Activities and Osmotic Adjustment Contents in Two Bread Wheat Genotypes under Drought Stress Conditions. *Seed and plant production journal*, **26 (2)**: 207-225.
- 37- **Taleahmad S.**, Haddad R. Effect of silicon on Drought Tolerance in Wheat. **2009**. *Agricultural research, soil and plant water in agriculture*. 8 (1): 159-170.
- 38- Khosh Kholgh Sima N.A., **Taleahmad S.**, Alitabar R. A., Motaghee A. And Pessarakli M. **2012**. Interactive Effects of Salinity and Phosphorus Nutrition on Physiological Responses of Two Barley Species. *Plant Nutrition Journal*, **35(9)**: 1411-1428. ISI.
- 39- Khosh Kholgh Sima N. A, **Taleahmad S.**, and Pessarakli M. **2012**. Comparative study of different salts (sodium chloride, sodium sulfate, potassium chloride and potassium sulfate) on growth of forage species. *Plant Nutrition Journal*, 36 (2): 214-230. ISI.
- 40- Khosh Kholgh Sima N. A, Alitabar R. A., Eghbalinejad, M., Babazadeh, P. and **Taleahmad S.**, **2013**. Effect of salinity on germination and salt tolerance of barley. *Iranian Journal of Field Crop Research*, 11 (1): 107-120.

CONFERENCES AND MEETINGS:

Oral Presentation

- 1- Mahbube Najarmansur, Ali Salari, **Sara Taleahmad**, Amir Mokhlesi, Mahmood Talkhabi. Identification of novel cardiac transcription factors involved in direct reprogramming of mouse fibroblasts to cardiac progenitor cells. 21st, National & 9th International Conference of Biology, 26-29 Feb 2021, Semnan University, Semnan, Iran.
- 2- Ghasem Hosseini Salekdeh, **Sara Taleahmad**, Anna Meyfour, Hossein Baharvand. 2019, Y chromosome genes play roles in sex-dependent development outside of sex determination. 21st Chromosome-Centric Human Proteome Project Symposium "Illuminating the dark proteome" - May 12-14, 2019, Saint-Malo, France.
- 3- **Sara Taleahmad**, Azam Samadian, Nafiseh Hassani, Ghasem Hosseini Salekdeh, Hossein Baharvand. Comparative Proteomics Analysis of Mouse Embryonic Stem Cell under Different Culture Conditions. 2018, 14th Congress on Stem Cell Biology and Technology, 29-31 August, Tehran, Iran.
- 4- **Sara Taleahmad**, Mehdi Mirzaei, Seyedeh-Nafiseh Hassani, Sepideh Mollamohammadi, Hossein Baharvand, Ghasem Hosseini Salekdeh. Quantitative shotgun proteomics analysis of mESCs under different culture condition. 2016. 1th international stem cells and regenerative medicine congress. Mashhad, Iran.
- 5- **Sara Taleahmad**, Mehdi Mirzaei, Seyedeh-Nafiseh Hassani, Sepideh Mollamohammadi, Hossein Baharvand, Ghasem Hosseini Salekdeh. Shotgun proteomics analysis of mouse embryonic stem cells. 2nd International symposium of Y chromosome. Royan institute, Tehran, Iran. 2016.

Poster Presentation

- 1- Mahbube Najarmansur, Mahmood Talkhabi, **Sara Taleahmad**, Ali Salari. RNA-Seq data analysis found HDAC, SUZ12 and EZH2 as the most important Epigenetic regulating factors for generating cardiac progenitor cells through direct reprogramming strategy. 4th International and 16th Iranian Genetics Congress (IRAN/ITALY Sep30-Oct2).
- 2- Mahbube Najarmansur, Ali Salari, **Sara Taleahmad**, Mahmood Talkhabi, Identification of novel cardiac transcription factors involved in direct reprogramming of mouse fibroblasts to cardiac progenitor cells. 21th National & 9th International Congress on Biology (IBS-2020).
- 3- **Sara Taleahmad**, Nafiseh Hassani, Ghasem Hosseini Salekdeh, Hossein Baharvand. BMP4 Signaling Plays a Critical Role in Self-renewal of Mouse Embryonic Stem Cells. 2018, 14th Congress on Stem Cell Biology and Technology, 29-31 August, Tehran, Iran.
- 4- Fatemehsadat Amjadi, Mehdi Mehdizadeh, Mahnaz Ashrafi, Davood Nasrabadi, **Sara Taleahmad**, Mehdi Mirzaei, Ghasem Hosseini Salekdeh, Reza Aflatoonian. Proteomic analysis of human endometrium in normal and polycystic ovarian syndrome. Eshre, 2015.
- 5- Ghazizadeh Z., Fattahi, F., Sharifi M., **Taleahmad S.**, Shabani P., Mirshahvaladi Sh., Baharvand H., Aghdami N., Salekdeh Gh. Molecular Characterization and Prospective Isolation of Human Secondary Heart Field Progenitors from Pluripotent Stem Cells. American Heart Association's Basic Cardiovascular Sciences. July 2015.
- 6- **Taleahmad Sara**, Haddad R. 2009. Silicon mediates changes to some physiological and enzymatic parameters symptomatic for oxidative stress in wheat (*Triticum aestivum* L.). In: 3th International conference on Integrated Approaches to Improve Crop Production under Drought-Prone Environments. 11-16 October, Shanghai, China. pp 131.
- 7- **Taleahmad Sara**, Haddad R. 2009. Osmotic adjustment effect of *Triticum aestivum* L. under drought stress by exogenous Silicon. In: 3th International conference on Integrated Approaches to Improve Crop Production under Drought-Prone Environments. 11-16 October, Shanghai, China. pp 131.
- 8- **Taleahmad Sara**, Haddad R. 2009. Silicon Analysis in wheat (*Triticum aestivum* L.) under drought stress condition. 5th Moscow International conference 16-20 March, pp 346-347.
- 9- **Taleahmad Sara**, Haddad R. 2008. Study of silicon effects on wheat cultivars under drought stress. In: 4th International conference (Silicon in Agriculture) South Africa, 26-31 October, pp 99.
- 10- Hemati P., **Taleahmad Sara**. 2010. Application of Nano-Biotechnology in Plant Diseases Diagnostic. In: 2th Regional Nano Biotechnology Conference, Islamic Azad University, Jouybar, Iran

- 11- Khosh Kholgh Sima N.A., Hadavand H., **Taleahmad Sara**. 2009. Investigation of salt Tolerance mechanisms in *Salicornia persica*. 6th Iranian Biotechnology Congress. 13-15 August, Tehran, Iran.
- 12- **Taleahmad Sara**, Haddad R. 2008. Study of silicon effects on osmolyte contents in wheat under drought stress. *In*: 10th Iranian Genetics Congress, 21-23 May, Tehran, Iran, pp.210.
- 13- **Taleahmad Sara**, Haddad R. 2008. Study of silicon effects on drought tolerance in wheat plant. *In*: 10th Iranian Genetics Congress, Tehran, Iran, 21-23 May. pp.212.
- 14- **Taleahmad Sara**, Haddad R. 2008. Evaluation of antioxidant enzymes change in response to drought stress in wheat. *In*: 10th Iranian Genetics Congress, Tehran, Iran, 21-23 May. pp.213.
- 15- **Taleahmad Sara**, Haddad R. 2008. Study of silicon effects on drought tolerance in wheat plant. *In*: 2th National Congress in Cellular & Molecular Biology, International Center for Science & high Technology and Environmental Sciences. Kerman, I. R. of Iran 29-30 January.
- 16- **Taleahmad Sara**, Haddad R. 2008. Study of silicon effects on osmolyte contents in wheat under drought stress. *In*: 2th National Congress in Cellular & Molecular Biology, International Center for Science & high Technology and Environmental Sciences. Kerman, I. R. of Iran 29-30 January.

WORKSHOPS AND CONGRESSES

- 1- 2nd Workshop on Two-Dimensional Electrophoresis, September 17th to 19th, Royan institute, Tehran.
- 2- 2nd Royan International Summer School on Developmental Biology and Stem Cells, July 17 to 22, 2011. Tehran, Iran.
- 3- 12th International Congress on Reproductive Biomedicine and the 7th International Congress on Stem Cell Biotechnology, September 7-9, 2011. Tehran Iran.
- 4- 11th congress on reproductive biomedicine & 6th congress on stem cell biology and technology, September 2010. Tehran –Iran
- 5- 3th International conference on Integrated Approaches to Improve Crop Production under Drought-Prone Environments. 11-16 October, Shanghai, China.
- 6- International Workshop on Crop Improvement under Drought, January 31st to February 2nd 2009 at Agricultural Biotechnology Research Institute of Iran (ABRII) in Karaj, Iran.
- 7- A Workshop on English Essay Writing: How to Write a Publishable Article. 2010 at Islamic Azad University, Karaj Branch.
- 8- 2th National Congress on Application of Nanotechnology to Agriculture. October 7-8, 2009 at Agricultural Biotechnology Research Institute of Iran (ABRII) in Karaj, Iran.

- 9- 1st Workshop "Good Laboratory Practices", November 10-11, 2007. Agricultural Biotechnology Research Institute of Iran, Karaj, Iran.
- 10- 1st National Biosafety Congress of Iran, February 16-17, 2005, Agriculture Biotechnology Research Institute of Iran, Karaj, Iran.
- 11- 6th National Biotechnology Congress of Iran, August 13-15, 2009, Tehran, Iran.
- 12- 10th National Genetics Congress of Iran, May 21-23, 2008, Tehran, Iran.
- 13- 2th National congress in Cellular & Molecular Biology, International Center for Science & high Technology and Environmental Sciences. 29-30 January 2008. Kerman Iran.
- 14- 4th National Biotechnology of Iran, August 15- 17, 2005, International Center of Sciences & High Technology & Environmental Sciences, Kerman, Iran.

NAMES AND ADDRESSES OF SEVERAL REFEREES

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