

## curriculum vitae

**Name:** parisa koobaz

**Date of Birth:** 17/10/1975

**Place of Birth:** Iran

**Scientific degree:** Assistant Professor



**Address:** Agricultural Biotechnology Research Institute of Iran (ABRII), Seed and Plant Improvement Institutes Campus, P. O. Box: 31535-1897 Mahdasht Road, Karaj, Iran

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### **Educational Background:**

**B.Sc. General Biology (1993 - 1997)**

Tehran University, Science college, Biology group, Tehran, Iran

**M.Sc. Biology- (1997 – 1999)**

Shahid Beheshti University, Biology unit, Tehran, Iran

**Ph.D. Plant Physiology(2009-2014)**

Tarbyat Modares University, Tehran, Iran

### **Previous Works:**

Research Assistant at Agricultural Biotechnology Research Institute of Iran (ABRII), Karaj, Iran (since May 2002).

Research Assistant in plant Physiology Group, Department of Biology, Faculty of Science, Tehran University, Tehran, Iran (1996-1997).

## **Current Position:**

Professor assistant at Agricultural Biotechnology Research Institute of Iran (ABRII), Karaj, Iran (since June 2014).

## **Skills:**

### **Laboratory Skills**

Plant tissue culture, transformation ,PCR, RT-PCR and Quantitative RT-PCR, AFLP, DNA, RNA and mRNA extraction, Agarose and polyacrylamide gel electrophoresis, Western blotting, Bacterial and plant cultures, Bacterial and plant Transformation, Protein extraction, 2D gel electrophoresis,

### **Computer Skills**

Seventh skills of computer

Various internet-based searches and using databases,

Analysis of sequence data with several computer softwares such as Melani, SPSS ...and Using other softwares such as Oligo,.

## **Interests:**

Physiological and molecular mechanisms in abiotic stress

Ornamental plants

Cytogenetic of wild species

## **Research Projects in last 5 years:**

Executor of a project “**Detection of GM drought tolerant rice based on morphological-physiological and molecular investigations**”

Executor of a project “**propagation and Production of commercial matured corms in two gladiolus cultivars**”

Executor of a project” **Evaluation of growth promoting bacteria effects on growth and yield of greenhouse cucumber, tomato and Bell pepper**”

Executor of a project “**Induction of delphinidin production by changing the biochemistry pathway of anthocyanin in two commercial Liliun varieties**”

## **Publications:**

Fallahpour, M. Ghanbari, A., **Koobaz, P.**, Chamani, E., Pejman Azadi.2023. Comparison of Bulblet Production, Enlargement, and Dormancy Breaking in some Commercial hybrid Liliium Cultivars in greenhouse. Iranian journal of horticultural science. Vol 53( 4), 1003-1020.

Khoshkholgh Sima,NA., Jabbari, H., Ebadi, A., Ghaffari, MR., **Koobaz, P.**2023. Comparative Analysis of exogenous Hormone Application on Contrasting Canola (*Brassica napus* L.) Genotypes Under Drought Stress Conditions. Journal of Soil Science and Plant Nutrition. <https://doi.org/10.1007/s42729-023-01527-6>

Abdirad, S., Wu, Y., Ghorbanzadeh, Z.Tazangi, S. E., Amirkhani, A., Fitzhenry, M. J., Kazemi, M., Ghaffari, M. R., **Koobaz, P.**, Zeinalabedini, M.Habibpoumehraban, F.,Masoomi-Aladizgeh, F., Atwell, B. J.,Mirzaei, M., Salekdeh, G. H., & Haynes, P. A. (2022). Proteomic analysis of the meristematic root zone in contrasting genotypes reveals new insights in drought tolerance in rice. *Proteomics*, 22, e2200100.

Fallahpour, M. Ghanbari, A., **Koobaz, P.**, Chamani, E., Pejman Azadi & Mii, M.2022. Selection of suitable lily cultivars by using needle agroinfiltration for blue flower production. *The Journal of Horticultural Science and Biotechnology*. 98 (2)207-222.

Orouji, E., Fathi Ghare baba, M., Sadeghi, **Koobaz.P.** Specific *Streptomyces* strain enhances the growth, defensive mechanism, and fruit quality of cucumber by minimizing its fertilizer consumption. *BMC Plant Biol* 23, 246 (2023). <https://doi.org/10.1186/s12870-023-04259-y>

**koobaz P**, Kalantari A, Korzevar S, Fathi Ghare baba M. 2021.Tissue Culture Process, Adaptation and Maturation of *Gladiolus* Corms in order to Produce *Fusarium* Resistant Corms by Genetic Engineering. *Journal of Biosafety* .; 14 (2) :101-116

Abdirad, S. Ghaffari, M. R. Majd, A., Irian S., Soleymaniniya, A., Daryani, P., **Koobaz, P.**, Shobbar Z., Karimi Farsad, L., Yazdanpanah P., Sadri A., Mirzaei M., Ghorbanzadeh Z., Kazemi, M., Hadidi N., Paul A. Haynes<sup>8</sup> and Salekdeh G. H.2022. Genome-Wide Expression Analysis of Root Tips in Contrasting Rice Genotypes Revealed Novel Candidate Genes for Water Stress Adaptation. *Frontiers in plant science*. Volume 13 | Article 792079

**Koobaz, P.** and Heidari, M. 2021. Consideration of wheat seed proteome under strict drought stress and recovery. *Iranian Journal of Seed Science and Research*, 8(3): 245-257. (In Persian)(Journal)

Alipour Kafi., S., Arabhosseini S., Karimi E., **Koobaz, P**, Mohammadi A., Sadeghi A. 2021. *Pseudomonas putida* P3-57 induces cucumber (*Cucumis sativus* L.) defense responses and improves fruit quality characteristics under commercial greenhouse conditions. *Scientia Horticulturae*.230,109942

Akbari, A., Gharanjik, Sh., **koobaz, P.** and Sadeghi, A.2020. Two *Streptomyces* strains improved salt stress tolerance in Iranian wheat cultivars. *Heliyon*,2(6) e03445.

**Koobaz, P.**, Ghaffari, M.R., Heidari, M. Mirzaei, M., Ghanati, F. Amirkhani A., , Mortazavi, S. E. Moradi, F. Hajirezaei, M. R., Salekdeh, G. H.2020.Proteomic and metabolomic analysis of desiccation tolerance in wheat young seedlings. *Plant Physiology and Biochemistry*.13(146).349-362.

**Koobaz, P.**, Hosseini, Z. Sadat, Khatamsaz, M. and Jafarkhani Kermani, M. 2020.Taxonomical study of section *Caninae* (*Rosa*) and their hybrids in Iran. *Rostaniha*. 20(2).85-97.

Kalantari, A., Rostami, M., **Koobaz P.**, Fathi Gharebaba, M., Mojtahedi, M. 2020.The effect of growth regulators, sucrose density and cold treatment on proliferation, cormlet produce and breaking dormancy in two *gladiolus* cultivars.*Journal of Plant Process and Function*.8(33)203-211.

**Koobaz, P.**, Hosseini, Z. Sadat, Jafarkhani Kermani M.and Khatamsaz M. 2019.Taxonomic study of some sections of genus *Rosa* and introduction of three new hybrids from Iran. *Acta Horticulture*, 1240.27-32.

- Jafarkhani Kermani, M. Jowkar, A. Hoseini Z.S. and **Koobaz P.** 2019. Chromosome measurements of wild roses of Iran. *Acta Horticulture*, 1240.99-104.
- Khosravi S., **Koobaz, P.**, Naderi, D., Mojtahedi, N., Sadeghi, A. 2019. In vitro studies on effects of Ferrioxamine B on chickpea (*Cicer arietinum* L.) growth and chlorophyll content. *Nova Biologica Reperta*, 6 (1) 116 – 123.
- Sadeghi, A., **Koobaz, P.**, Azimi, H. et al. Plant growth promotion and suppression of *Phytophthora drechsleri* damping-off in cucumber by cellulase-producing *Streptomyces*. 62, 805–819 (2017).
- Koobaz P.**, Hosseini Z., Kermani M. and Khatamsaz M. 2017. Taxonomical study of genus *Rosa* and introduce new three hybrids from Iran. *Acta Horticulture Accepted*
- Koobaz, P.**; Ghanati, F, Hosseini Salekdeh, G.; Moradi, F. and Hadavand, H. 2017. Drought tolerance in four-day old seedlings of a drought. *Journal of Plant Nutrition*. 40:4, 574–583
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- Khosravi, S., Tohidfar M. and **Koobaz P.** 2015. Development of Gene-specific Real-time PCR Screening Method for Detection of cp4-epsps Gene in GM Crops. *Food Technology and Biotechnology*, vol 53(4)
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- Koobaz P.** and Mojtahedi N. 2008. Using bacteria to remove Atrazin from polluted water. *Iranian Journal on Nanotechnology: Nanoworld* 10: 54- 57.
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Hamzeh S. Koobaz, P. Habashi, A. and Farshadfar, E. October 2005, *Agrobacterium* mediated transformation of chickpea (*Cicer arietinum* L.). International conference of plant genomics and biotechnology "Challenges and opportunities.", Chhatisgarh India.

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Koobaz P. and N. Mojtahedi, May 2008, The assessment of gene flow in GM forests (Mini-review), 2<sup>nd</sup> National Biosafety Conference. Tehran, Iran.

Koobaz P., Khatamsaz M., Jafar khani M. August 2008. Biosystematics studies of 4 wild roses collected from different part of Iran. 15<sup>th</sup> National Iranian Congress of Biology. Tehran, Iran.

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Jowkar A., Jafarkhani Kermani M., Kafi, M., Mardi. M., Hosseini, Z., **Koobaz, P.** August 2009. Assessing *Rosa persica* genetic diversity using amplified fragment length polymorphisms analysis. 23<sup>th</sup> EUCARPIA SYMPOSIUM Section Ornamentals "Colourful Breeding and Genetics.

Koobaz P., Jafar khani M. Khatamsaz M., August 2010. Inter- and intraspecific Morphological Variation Of section *Caninae* L. Species in Iran. 16th International conference of Biology. Mashhad, Iran

Koobaz, P., Ghanati, F., Hosseini GH., Heidari, M., Moradi, F.2012.The study of drought tolerance deterring of different wheat longedcultivars in prowater stress and rewatering conditions. 17th International conference of Biology. Kerman, Iran.

Koobaz, P., Ghanati, F., Hosseini GH., Heidari, M., 2014. Gene expression study in drought stress wheat seedlings and rewatering. The first international genetic congress of Iran. Tehran, Iran

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Koobaz, P., Ghanati, F., Hosseini GH., Moradi, F., Hadavand, H.2014.Study of amino acid profile of wheat seedlings under drought stress and rewater. The first international of crop science. Tehran, Iran

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Koobaz, P., Mojtahedi, N. 2015. Role of Abscisic acid in abiotic stresses and seed and bulb dormancy induction. The first international of Biotechnology congress. Tehran, Iran.

Koobaz, P., Nazemi, Z., Eghbali nejad, M., Pourmazaheri,H., Sadeghi, A., Hooshmand Panah., Z.2015. The effect of plant growth promoting rhizobacterias (PGPRs) and organic fertilizers on some physiological characters of commercial tomato. The first international of Biotechnology congress. Tehran, Iran.

Koobaz P., Mojtahedi N.2016. Improvement of In Vitro Culture Establishment of Gladiolus corms Using Nanosilver The first international and second national ornamental plants congress.mashhad, Iran.

koobaz P. , Kalantari,A., Rostami, M., Fathi Gharebaba M. and Mojtahedi N.2017. Basal plates of gladiolus corms as the prosperous explants for in vitro regeneration. International Symposium of wild flowers and ornamental plants. Ramsar, Iran.

Koobaz P., Hosseini Z., Kermani M. and Khatamsaz M. 2017.Taxonomical study of genus Rosa and introduce new three hybrids from Iran. International Symposium of wild flowers and ornamental plants. Ramsar, Iran.

Sadeghi, A., Koobaz, P., Azimi H., Karimi, E., Akbari A. 2017. Interaction between two salt tolerant isolates, *Streptomyces rimosus* and *Streptomyces monomycini*, and *Phytophthora drechesleri* in greenhouse condition .2th international and 10<sup>th</sup> national Biotechnology congress of Islamic of Republic of Iran. Tehran, Iran.

Kalantari, A., Koobaz, P., Rostami, M.2017. Effect of benzyl aminopurine and naphthalene acetic acid on leaf production and rooting in two Gladiolus corms cultivars. 2<sup>th</sup> international and 10<sup>th</sup> national Biotechnology congress of Islamic of Republic of Iran. Tehran, Iran.

Soltani nezhad, N., Gharanjik, Sh., koobaz P., Fathi Ghare babaa M., Sadeghi, A. 2017.Investigation of some PGPR *Pseudomonas* role on vegetative growth in summer vegetable. 2<sup>th</sup> international and 10<sup>th</sup> national Biotechnology congress of Islamic of Republic of Iran. Tehran, Iran.

Orouji, E., Gharanjik, Sh., koobaz P., Fathi Ghare babaa M., Sadeghi, A. 2017. Evaluation of some PGPR strains on vegetative growth of summer vegetable. 2<sup>th</sup> international and 10<sup>th</sup> national Biotechnology congress of Islamic of Republic of Iran. Tehran, Iran.

Koobaz, P. The effect of microorganisms in nutrition and maintenance of ornamental plants. 2018.2<sup>nd</sup> international and 3th national ornamental plants congress. Mahalat, Iran

Koobaz, P. Fathi Ghare babaa .2018. Root system expansion of Oak by foliar and soil application of Ferrilene and Zinc sulfate . 2<sup>nd</sup> international and 3th national ornamental plants congress. Mahalat, Iran

Fallahpour M., Koobaz P., Ghanbari, A., Chamani, E., Azadi, P. 2019.Regeneration and resistance to kanamycin of some liliun varieties to transform F3'5'H gene. 3rd International & 11th National Biotechnology Congress of Islamic Republic of Iran. Tehran, Iran.

Korzevar S., koobaz, P. Aghae, K., Shobbar, Z. S. Fathi ghare baba, M. 2019. Influence of Gibberellic Acid and 6-Benzyl Adenine Growth Regulators on Some Morphological Traits of Two Gladiolus Cultivars. 6th Iranian conference of plant physiology. Yazd,Iran

Koobaz, P.,Orougi, E., Soltani nejad, N., Sadeghi,A. and Fathi Ghare baba, M.2019. The role of PGPR Actinomycets to decrease chemical fertilizers in Cucumber and Tomato. 6th Iranian conference of plant physiology. Yazd,Iran.

Fallahpour, M., Ghanbari, A., Koobaz, P., Chamani, E. and Azadi, P.2021.Comparison of In vitro Bulblet Production in Four Commercial Liliium Cultivars. 4<sup>nd</sup> international and 3th national ornamental plants congress. Ahwaz, Iran.

Koobaz, P., Fathi Ghare baba. M.2021.The role of Phytoremediation using ornamental plants and growth-promoting bacteria in Tehran soils. 4<sup>nd</sup> international and 3th national ornamental plants congress. Ahwaz, Iran.

Koobaz, Parisa ., Kalantari, A., Korzevar, S., Fathi Ghare baba, M.2021. Production of commercial adult corms in order to self-sufficiency and create new gladiolus cultivars. 4<sup>nd</sup> international and 3th national ornamental plants congress. Ahwaz, Iran.

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