Curriculum Vitae

Name & Surname: Somayeh Esmaeili Khuygani

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PROFESSIONAL PROFILE:

Assistant Professor of Horticulture Science in Shahid Chamran University (SCU) of Ahvaz.

EDUCATION BACKGROUND:

Ph.D.: Horticultural Science (2012-2018), Shiraz University, Shiraz, Iran

Thesis Title:

"*IPT* gene transfer to perennial ryegrass *(Lolium perenne* L.) for drought tolerance and habitat determination of *Lolium* sp. in Fars province."

M.Sc.: Horticultural Science - ornamental plants (2007-2010), Shiraz University, Shiraz, Iran

Dissertation Title:

"Interaction effects of temperature and photoperiod on morphological and physiological indices of bermudagrass turf (*Cynodon dactylon* [L.] Pers.)."

B.Sc.: Horticultural Science (2001-2005), Shahid Chamran University of Ahvaz, Iran

TEACHING AND TRAINING EXPERIENCE:

- Park and Garden Designing (B.Sc.)
- Ornamental Plants 1 (B.Sc.)
- General Horticulture (B. Sc.)
- Production and Growing of Cut Flowers (B. Sc.)
- Plant Propagation and Floriculture Laboratories (B.Sc.)

HONOURS AND AWARDS:

- Cooperation with Green Space Research, Training and Counseling Center of District 20 and 7 Municipalities of Tehran, Tehran, Iran. May 2019-Sep 2020.
- Cooperation with Parks and Green Space Organization of Isfahan. Isfahan, Iran. 2012.

INTERESTS AND RESEACH FIELDS:

- Plant Physiology and Biotechnology in Turfgrasses and Ornamental Plants
- Plant Habitat Modeling
- Arid and Semi-arid Zone Landscape Design

RESARCH ACTIVITIES:

PUBLICATION:

1. Esmaeili, S., Salehi, H., Khosh-Khui, M., Niazi, A., Tohidfar, M & Aram, F. (2019). Isopentenyl transferase (IPT) gene transfer to perennial ryegrass through sonication-assisted Agrobacterium-mediated transformation (SAAT), vacuum and heat treatment. *Journal of Molecular Biotechnology*, 61, 332- 344.
2. Esmaeili, S., Salehi, H., & Khosh-Khui, M. (2018). Direct and indirect in vitro plant regeneration of two commercial cultivars of perennial ryegrass. *Advances in Horticultural Science*, 32, 273-280.
3. Esmaeili, S., Salehi, H., & Khosh-Khui, M. (2017). Seasonal changes in some physiological and biochemical responses of six groundcover plants. *International Journal of Horticultural Science and Technology*, 4, 105-116.
4. Karami, A., Esmaeili, S., & Saharkhiz, M. J. (2017). Phytotoxic activity of Tecomella undulata (Sm.) Seem extracts on some ornamental plants. *Biocatalysis and Agricultural Biotechnology*, 9, 177-182.
5. Esmaeili, S., & Salehi, H. (2016). Kentucky bluegrass (Poa pratensis L.) silicon-treated turfgrass tolerance to short-and long-term salinity condition. *Advances in Horticultural Science*, 30, 87-94.
6. Esmaeili, S., Salehi, H., & Eshghi, S. (2015). Silicon ameliorates the adverse effects of salinity on turfgrass growth and development. *Journal of plant nutrition*, 38, 1885-1901.
7. Esmaili, S., & Salehi, H. (2012). Effects of temperature and photoperiod on postponing bermudagrass (Cynodon dactylon [L.] Pers.) turf dormancy. *Journal of plant physiology*, 169, 851-858.
8. Saharkhiz, M. J., Smaeili, S., & Merikhi, M. (2010). Essential oil analysis and phytotoxic activity of two ecotypes of Zataria multiflora Boiss. growing in Iran. *Natural product research*, 24, 1598-1609.
9. Esmaili, S., & Salehi, H. (2009). Floristic Composition of weed community in Tturfgrass field of Bajgah, Iran. *Iranian Journal of Weed Science*, 5, 55-64.

CONFERENCE PRESENTATIONS:

1. Esmaeili, S. Introducing low-maintenance native grasses for using in landscape. Webinar on Optimal Use of Water in Urban Green Space. 24 February. 2021, Drought Research Center, Shiraz University, Shiraz, Iran.
2. Esmaeili, S., H. Salehi, M. Khosh-Khui, & A. R Mikaeili Tabrizi. Habitat suitability mapping of Lolium sp. in Fars Province. The 3rd International and National Congress on Flower and Ornamental Plants. 26-28 January. 2021, University of Shahid Chamran, Ahvaz, Iran.
3. Esmaeili, S., H. Salehi, M. Khosh-Khui & A. Niazi. Investigation on physiological characteristic of RD29A-IPT transgenic perennial ryegrass plants under drought stress. The 3rd International and National Congress on Flower and Ornamental Plants. 26-28 January. 2021, University of Shahid Chamran, Ahvaz, Iran.
4. Esmaeili, S., M.A. Hashemi Tameh, N. Nikbakht, N. Rasekhi & A. Askari. Investigation of interaction of irrigation levels and vermicompost on morphophysiological indices of several ground cover plants. 7th National Conference on Applied Research in Healthy Food Sciences from Farm to Table. 15 January. 2020, Shahid Beheshti University, Tehran, Iran.
5. Esmaeili, S., H. Salehi, M. Khosh-Khui & A. Niazi. The improvement of drought tolerance of perennial ryegrass by expression of RD29A-IPT gene. 11th Iranian Horticultural Science Congress. 26-29 August. 2019, University of Urmia. Urmia, Iran.
6. Esmaeili, S., H. Salehi & M. Khosh-Khui. Root evaluation of RD29A-IPT transgenic, WT and local accessions of perennial ryegrass exposed to drought stress. 11th Iranian Horticultural Science Congress. 26-29 August. 2019, University of Urmia. Urmia, Iran.
7. Esmaeili, S., H. Salehi, M. Tohidfar, A. Niazi & M. Khosh-Khui. IPT gene transfer to two commercial cultivars of Lolium perenne L. 2nd International and 10th National Biotechnology Congress of Islamic Republic of Iran. 29-31 August. 2017, Seed and Plant Improvement Institute Karaj, Iran.
8. Esmaeili, S., H. Salehi & M. Khosh-Khui. In vitro callus induction and regeneration rate of two commercial cultivars of perennial ryegrass. 1nd International Conference and 10th National Horticultural Science Congress of Iran. 4-7 September. 2017. Tehran, Iran.
9. Esmaeili, S., H. Salehi & M. Khosh-Khui. Investigation of adaptation from several ground cover plants view point of physiological and biochemical under climate conditions from Shiraz. 9th Iranian Horticultural Science Congress. 25-28 January. 2016, Ahvaz, Iran.
10. Esmaeili, S., H. Salehi, & S. Eshghi. Silicon ameliorates the adverse effects of salinity on turfgrass growth and establishment. 3th National Plant Physiology Congress.7 -10 May. 2013, Isfahan, Iran.
11. Salehi, H. & Esmaeili, S. Investigation on silicon effects on improving tolerance of Kentucky bluegrass (Poa pratensis L.) turfgrass to short-and long-term salt stress conditions. 3th National Plant Physiology Congress.7 -10 May. 2013, Isfahan, Iran.

12. Esmaeili, S. & H. Salehi. Effect of extended photoperiod on visual quality and morphological indices of bermudagrass turf (Cynodon dactylon [L.] Pers.). Iranian Horticultural Science Congress. 5-8 September. 2011, Isfahan, Iran.
13. Esmaeili, S. & H. Salehi. Effect of extended photoperiod on visual quality and morphological indices of bermudagrass turf (Cynodon dactylon [L.] Pers.). Iranian Horticultural Science Congress. 5-8 September. 2011, Isfahan, Iran.
14. Salehi, H. & S. Esmaeili. Effects of extended photoperiod under field condition on physiological indices of bermudagrass turf (Cynodon dactylon [L.] Pers.). Iranian Horticultural Science Congress. 5-8 September. 2011, Isfahan, Iran.
15. Salehi, H. & S. Esmaeili. Interaction effects of temperature and photoperiod on morphological indices of bermudagrass turf (Cynodon dactylon [L.] Pers.). Iranian Horticultural Science Congress. 5-8 September. 2011, Isfahan, Iran.

PROFESSIONAL MEMBERSHIPS:

- The Iranian Society for Ornamental Plants (ISOP)
- Iranian Society for Horticultural Sciences

LANGUAGES:

- Persian (native)
- English (medium)