

بسمه تعالی

زندگی نامه علمی



سید علی حسینی تفرشی
استادیار گروه زیست شناسی سلولی و مولکولی-دانشکده شیمی دانشگاه کاشان

مدارک تحصیلی:

- کارشناسی زیست شناسی گیاهی
دانشگاه تهران-۱۳۸۰
- کارشناسی ارشد فیزیولوژی گیاهی
دانشگاه اصفهان-۱۳۸۳
- دکترای فیزیولوژی گیاهی
دانشگاه اصفهان- ۱۳۹۰

واحدهای تدریس شده:

- فیزیولوژی گیاهی
- آزمایشگاه فیزیولوژی گیاهی
- زیست فناوری گیاهی
- گیاه شناسی
- آزمایشگاه گیاه شناسی
- متون تخصصی زیست شناسی
- کشت بافت گیاهی
- آزمایشگاه کشت بافت گیاهی
- محیط زیست و زیست فناوری
- جلبک شناسی
- آزمایشگاه زیست شناسی مولکولی

■ آزمایشگاه مهندسی ژنتیک

■ بیوانفورماتیک

تجربیات و علایق پژوهشی:

■ زیست شناسی مولکولی گیاهی

■ بیوانفورماتیک

■ خاموش سازی ژن در گیاهان

■ همسانه سازی ژن

■ آنالیز بیان ژن

■ روش های آنالیز بیوشیمیایی (HPLC، GC-MS، NMR)

■ جداسازی، شناسایی و کشت جلبک های مهم در زیست فناوری

■ فیزیولوژی و بیوشیمی گیاهی و جلبکی

■ فیزیولوژی تنش

مقالات چاپ شده در مجلات علمی:

■ Hassanpour, M., **Tafreshi, S.A.H.**, Amiri, O., Hamadianian, M. and Salavati-Niasari, M. 2021. Toxicity of Nd₂WO₆ nanoparticles to the microalga *Dunaliella salina*: synthesis of nanoparticles and investigation of their impact on microalgae. RSC Adv., 2021,11, 27283-27291.

■ **Hosseini Tafreshi, S.A.**, Aghaie, P., Ebrahimi, M.A., and Haerinasab, M. 2021. Regulation of drought-related responses in tomato plants by two classes of calcineurin B-like (SICBL1/2) proteins. Plant Physiology and Biochemistry 162, 431-446.

■ Ajtahed, S.S., Rezaei, A., and **Hosseini Tafreshi, S.A.** 2021. Identifying superior drought-tolerant Bermudagrass accessions and their defensive responses to mild and severe drought conditions. Euphytica 217, 91. <https://doi.org/10.1007/s10681-021-02821-z>

■ **Tafreshi, S.A.H.**, Aghaie, P., Momayez, H.R., and Hejaziyan, S.A. 2021. Response of *in vitro*-regenerated *Myrtus communis* L. shoots to PEG-induced water stress. Biocatalysis and Agricultural Biotechnology 34(1), 102033. <https://doi.org/10.1016/j.cbab.2021.102033>.

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- Hassanpour, M., **Tafreshi, S.A.H.**, Amiri, O., Hamadani, M. and Salavati-Niasari, M. 2020. Toxic effects of Fe₂WO₆ nanoparticles towards microalga *Dunaliella salina*: sonochemical synthesis nanoparticles and investigate its impact on the growth. *Chemosphere* 258, 127348.
- Toghyani, M.A., Karimi, F., **Hosseini Tafreshi, S.A.** et al. 2020. Two distinct time dependent strategic mechanisms used by *Chlorella vulgaris* in response to gamma radiation. *J Appl Phycol* 32, 1677–1695. <https://doi.org/10.1007/s10811-020-02106-3>
- **Hosseini Tafreshi, S.A.**, Aghaie, P., Toghyani, M.A. and Ramezani moghadam, A. 2020. Improvement of ionizing gamma irradiation tolerance of *Chlorella vulgaris* by pretreatment with polyethylene glycol. *International Journal of Radiation Biology* 96(7).
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- **Hosseini Tafreshi, S.A.**, Aghaie, P., Ramezani moghadam, A. and Toghyani, M.A. (Accepted) The effect of Melatonin pretreatment on growth responses and enhancement of the enzymatic antioxidant system in *Chlorella vulgaris* under stress of ionizing radiation. *Iranian Journal of Radiation Safety and Measurement*.
- **Hosseini Tafreshi, S.A.**, Aghaie, P., Ramezani moghadam, A. and Toghyani, M.A. 2019. The effect of Melatonin pretreatment on some physiological parameters in *Chlorella vulgaris* under stress of ionizing radiation. *Iranian Journal of Radiation Safety and Measurement* 7 (4), 19-26.
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- پیمان آقایی، سیدعلی حسینی تفرشی، و محمد امین طغیانی. ۱۳۹۸. مقایسه پاسخهای رشد و فیزیولوژی دو رقم حساس و مقاوم به خشکی گوجه فرنگی به ویروس تفتق تنباکو (TVR). ششمین کنفرانس ملی فیزیولوژی گیاهی ایران. دانشگاه یزد
- فائزه نقاده، سیدعلی حسینی تفرشی و فاطمه ذاکرتولایی. ۱۳۹۷. امکان سنجی استفاده از ویروس جفجغه (TRV) به عنوان ابزار بیان موقت پروتئین در گیاهان. ششمین کنگره زیست شناسی و علوم طبیعی ایران. موسسه آموزش عالی مهر اروند و مرکز راهکارهای دستیابی به توسعه پایدار. تهران
- هنگامه وثوقی تبار، سید علی حسینی تفرشی و حمید دهقان زاده. ۱۳۹۴. تأثیر تنش شوری بر جوانه زنی و رشد اولیه زیره سبز (*Cuminum Cyminum L.*) در دو رقم اردستان و مشهد اردهال. چهارمین کنفرانس ملی فیزیولوژی گیاهی ایران.

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■ Mansour Shariati, Zohreh Elmi Anaraki and **Sayed Ali Hosseini Tafreshi**. 2017. Effect of transient silencing of heat shock proteins on photosystem II efficiency during adaptation to salinity stress in plants. 2nd International Conference on Plant science & Physiology. Holiday Inn Bangkok Silom

■ R.S. Ejtahed, T. Radjabian, **S.A. Hosseini Tafreshi** and A. Kamrani (2012) Determination of Rosmarinic Acid In Leaves of Some Iranian *Salvia* Species by A Rapid Spectrophotometric Method. National Congress On Medicinal Plants, kish island, Iran.

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■ **Seied Ali Hosseini Tafreshi** and Mansour Shariati (2007) Outdoor culture of different strains of *Dunaliella salina* alga in the climatic conditions of Iran. 1th congress on Microalgal Biotechnology, Tabriz, Iran.

پروژه‌های تحقیقاتی:

■ **Hosseini Tafreshi A.** 2014. Optimization of plant tissue culture of some ornamental plants fanatically supported by Kashan municipality.

■ Shariati, M, and **Hosseini Tafreshi A.** 2010. B-carotene and *Dunaliella* powder production in pilot scale fanatically supported by university of Isfahan and Incubator of University of Kashan.