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مدیر پژوهشی دانشگاه محقق اردبیلی و
دانشیار گروه علوم باغبانی
دانشکده کشاورزی و منابع طبیعی
دانشگاه محقق اردبیلی

آدرس: گروه علوم باغبانی، دانشکده علوم کشاورزی و منابع طبیعی، دانشگاه محقق اردبیلی (UMA)، اردبیل، ایران.

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بیوگرافی مختصر:

- از مهر 1372 در رشته مهندسی کشاورزی-علوم باغبانی وارد دانشگاه شدم و مقطع کارشناسی را در سال 1376 و کارشناسی ارشد را در سال 1378 در دانشگاه تبریز به اتمام رساندم. پایاننامه ارشد را در موسسه بیوتکنولوژی کرج و بخشی از دروسهای تخصصی را در پردیس کشاورزی و منابع طبیعی دانشگاه تهران گذراندم.
- از سال 1378 تدریس در دانشکده کشاورزی مغان را همزمان با تحصیل آغاز نمودم و از مهرماه سال 1379 به عنوان عضو هیات علمی تمام وقت دانشگاه محقق اردبیلی در دانشکده کشاورزی مغان مشغول به خدمت شدم.
- از آبان ماه سال 1379 به عنوان مسئول امور آموزشی و دانشجویی دانشکده منصوب و از اردیبهشت ماه سال 1380 تا شهریور 1389 با حفظ سمت هیات علمی، به عنوان معاون دانشکده کشاورزی مغان فعالیت نموده ام در این مدت علاوه بر مسئولیتهای ذکر شده سرپرستی ایستگاه تحقیقاتی کشاورزی مغان را نیز به عهده داشتم.
- بهمن 1388 دوره دکترای تخصصی PhD را در دانشگاه تبریز در رشته علوم باغبانی گرایش سبزیکاری شروع و بهمن 1393 فارغ التحصیل شدم. در طول سال 2013-2014، فرصت مطالعاتی را در موسسه - The Plant Breeding and Acclimatization Institute - National Research Institute (IHAR-PIB) ورشو لهستان طی کردم و در بهمن 1393 از رساله خود دفاع نموده و مجدداً برای خدمت به دانشکده کشاورزی و منابع طبیعی مغان مراجعت نمودم.
- از فروردین سال 1394 به عنوان رئیس دانشکده کشاورزی مغان منصوب و تا شهریور 1396 انجام وظیفه نمودم.
- بعد از اتمام مسئولیت در دانشکده مغان، از مهر 1396 به دانشکده کشاورزی دانشگاه محقق اردبیلی منتقل شدم. به مدت دو سال مدیر گروه علوم باغبانی دانشکده علوم کشاورزی و منابع طبیعی دانشگاه محقق اردبیلی بوده ام و اکنون به عنوان دانشیار گروه علوم باغبانی و مدیر امور پژوهشی دانشگاه محقق اردبیلی مشغول به خدمت هستم.

تحصیلات:

- دکترای تخصصی PhD. گروه علوم باغبانی، رشته سبزی کاری، دانشگاه تبریز، ایران، 1388-1393. عنوان رساله: بررسی سبب زمینی زراعی و برخی گونه های خویشتناوند وحشی واجد ژنوم A و B توسط نشانگرهای مولکولی SSR و ISSR و ارزیابی های مورفولوژیکی (استاد راهنما: دکتر جابر پناهنده و پروفیسور سید ابوالقاسم محمدی).
- فرصت مطالعاتی: موسسه اصلاح و سازگاری گیاهان (IHAR) - موسسه تحقیقات ملی، ورشو، لهستان، 2013-2014 (سرپرست: پروفیسور Jadwiga Śliwka؛ j.sliwka@ihar.edu.pl).
- کارشناسی ارشد: گروه علوم باغبانی، دانشگاه تبریز، ایران، 1376-1379. عنوان پایان نامه: تعیین مناسب ترین محیط برای تولید بیشترین تعداد شاخه های ریشه دار در کشت بافت میخک
- کارشناسی: مهندسی کشاورزی - علوم باغبانی، دانشگاه تبریز، ایران، 1376-1372.

سوابق اجرایی :

- (1) مسئول امور آموزشی و دانشجویی دانشکده کشاورزی مغان (1379/9/1 - 1380/2/1)
- (2) معاون (آموزشی، پژوهشی و فرهنگی) دانشکده کشاورزی مغان (1380/2/1 - 1389/6/15)
- (3) رئیس ایستگاه تحقیقاتی کشاورزی دانشگاه محقق اردبیلی در مغان (1380/2/1 - 1389/6/15)
- (4) رئیس دانشکده کشاورزی و منابع طبیعی مغان (از فروردین 1393 - 1396/6/18)
- (5) عضو شورای آموزشی دانشگاه محقق اردبیلی (1380/2/1 - 1389/6/15)
- (6) عضو شورای دانشگاه محقق اردبیلی (1394-1396)
- (7) عضو شورای فرهنگ عمومی شهرستان پارس آباد (1394-1396)
- (8) بازرس کمیته توسعه دانشکده فناوری های نوین نمین (1394-1396)
- (9) عضو شورای استانی ماده 21 قانون افزایش بهره وری آموزشی کشاورزی (1394-1396)
- (10) عضو شورای آموزشی و انجمن های اولیا و مربیان آموزش و پرورش ناحیه 1 اردبیل (1397-1400)
- (11) مسئول اولین برنامه عملیاتی همکاریهای مشترک علمی، فناوری و نوآوری دانشگاه محقق اردبیلی و شرکت کشت و صنعت و دامپروری مغان (1397)
- (12) تدوین برنامه راهبردی برنامه توسعه ده ساله و دانشکده کشاورزی و منابع طبیعی مغان (1394-1396)
- (13) عضو شورای مشورتی جامعه علوم باغبانی ایران
- (14) عضو هیات داوران نشریه علمی علوم سبزیها دانشگاه ملایر
- (15) عضو هیات داوران نشریه علمی تحقیقات گیاهان دارویی ایران
- (16) عضو هیات داوران نشریه علمی علوم باغبانی ایران

- (17) عضو هیات داوران نشریه علمی بوم شناسی ایران
- (18) عضو هیات داوران نشریه علمی بین المللی (Scientia Horticulturae)(The Netherland)
- (19) عضو هیات داوران نشریه علمی بین المللی (Physiology and Molecular Biology of Plants)(India)
- (20) عضو هیات داوران کنفرانس بین المللی گیاهان داروئی همدان
- (21) عضو هیات داوران نشریه علمی تولیدات گیاهی ایران
- (22) عضو انجمن علوم باغبانی ایران
- (23) عضو انجمن بین المللی علوم باغبانی ISHS
- (24) مدرس دوره های پیشرفته کشاورزی و باغبانی برای کارشناسان کشاورزی (فنی و حرفه ای)
- (25) عضو هیات اجرایی انتخابات در دوره های قبلی انتخابات
- (26) عضو کمیته تحقیقات کشاورزی و منابع طبیعی استان
- (27) مدیر گروه علوم باغبانی گروه علوم باغبانی
- (28) مدیر امور پژوهشی دانشگاه محقق اردبیلی (ادامه دارد)

Skills and passed Training courses:

- GLP, Tissue culture, micropropagation, different methods of plant propagation, and management of horticultural greenhouses (over 20 years experiences).
- Familiar with statistical softwares like SAS, SPSS, GenALEx, PopGene, XLstat, NTSYSpc.
- Familiar with medicinal plants and some extraction methods of medicinal plants active substances over 10 years experiences.
- Planting and production of wheat and corn from 2010 to 2015 on an annual level of at least 10 hectares.
- Cultivation and production of cotton from 2010 to 2015 on level of 5 hectares peryear.
- Cultivation and production of summer crops such as watermelon, melon, cucumber, and tomato from 2010 to 2015 on an annual level of at least 5 hectares.
- Small-scale and educational greenhouse management, since 2010.
- Passing Next Generation Sequencing(NGS) Training course 2021.
- Passing Real time-PCR skills courses 2013&2016 .
- Passing HPTLC and HPLC Training Course 2016.
- Passing GC -MS skills Training Course 2015.
- Passing Additional Botany courses 2001-2002.

Academic backgrounds:

- Present position: Assistant professor in the Department of Horticultural Sciences, Faculty of Agricultural Sciences and Natural sciences, University of Mohaghegh Ardabili, Ardabil, Iran(from Sept 2017- continues).
- Head of the Faculty of Agriculture and Natural Resources (Moghan Campus), University of Mohaghegh Ardabili, April 2015 to September 2017).

- A faculty member of the Department of Plant Productions, Faculty of Agriculture and Natural Resources (Moghan Campus), University of Mohaghegh Ardabili, (October 2000- September 2017).
- Deputy Director of Moghan Agricultural College and responsible for Agricultural Research Station, University of Mohaghegh Ardabili, May 2001 to June 2010.
- Educational and Student Affairs Officer in Moghan Junior college of Agriculture, a campus of the University of Mohaghegh Ardabili, (November 2001- May 2002).

Teaching Experiences:

- Principles of Horticulture (from 2000 to present)
- Fundamentals of tissue culture and biotechnology (from 2000 to present)
- Plant propagation (from 2000 to present)
- Plant Anatomy (from 2000 to present)
- Plant Morphology and Systematics (from 2000 to present)
- Olericulture (from 2015 to present)
- Plant tissue culture (from 2015 to present)
- Plant Biotechnology (from 2017 to present)
- Identification and Introducing Endemic medicinal plants of Iran (from 2017 to present)
- Medicinal plants breeding (from 2017 to present)
- Extraction methods and identification of medicinal plants' active substances (from 2017 to present).
- New topics in medicinal plants (from 2017 to present).

Research interests:

- Molecular markers and genetic diversity.
- Plant molecular & classic breeding.
- Environmental biotic & abiotic stresses on plants.
- Nanoparticles
- biotechnology
- Tissue culture, propagation, and micropropagation of plants.
- Potato Growing and Breeding
- Medicinal Plants and Secondary Metabolites.

فعالیت های پژوهشی:

A. تعدادی مقالات چاپ شده در نشریات علمی پژوهشی (تا قبل از مهر 1401)

- 1) **Torabi Giglou, M.,** Heydarnajad Giglou R., Esmailpour, B., Azarmi, R., Padash, A., Falakian, M., Śliwka, J., Gohari, G. and MalekiLajayer H. **2022.** A new method in mitigation of drought stress by chitosan-coated iron oxide nanoparticles and growth stimulant in peppermint. *Industrial Crops and Products*, 187(A): 1. <https://doi.org/10.1016/j.indcrop.2022.115286> (**JCR: Q1 impact factor (2022): 6.449**).

- 2) Rezazad Bari, L., Ghanbari, A., Darvishzadeh, R., **Giglou, M. T.**, & Baneh, H. D. (2021). Discernment of grape rootstocks base on their response to salt stress using selected characteristics in combination with chemometric tools. *Food Chemistry*, 365, 130408. <https://doi.org/10.1016/j.foodchem.2021.130408> . **(JCR: Q1 impact factor (2022): 9.231)**.

- 3) Esmailpour B., Behnamian M., Gohari G., **Torabi-Giglou M.**, Vachova P., Rastogi A., Brestic M., and Milan Skalicky. **2021**. Chitosan–Selenium Nanoparticle (Cs–Se NP) Foliar Spray Alleviates Salt Stress in Bitter Melon. *Nanomaterial*, 11, 684. <https://doi.org/10.3390/nano11030684>. **(JCR: Q1 impact factor (2021): 5.719)**.

- 4) Kanani, M., Chamani, E., Shokouhian, A.A., **Torabi-Giglou, M.** **2021**. Plant secondary metabolism and flower color changes in damask rose at different flowering development stages. *Acta Physiologiae Plantarum*. **(JCR: impact factor (2021): 2.736)**.

- 5) Kanani, M., Chamani, E., Shokouhian, A.A., **Torabi-Giglou, M.** **2021**. Essential oil content and composition in various ecotypes of dam-ask rose from different ecological regions. *Acta Scientiarum Polonorum, Hortorum Cultus*, 20(1), 00–00. DOI: 10.24326/asphc.2021.1.6. **(JCR: impact factor (2021): 0. 863 - Scopus Q3 CiteFactor 1.3)**.

- 6) Nekoe Mehmandar, M., Rasouli, F., **Torabi Giglou, M.**, Zahedi, Seyed M., and Aazami, M.A. **2021**. In vitro screenings of Cucumis melo under drought simulated by PEG and sorbitol. *New Zealand Journal of Crop & Horticultural Science*. **(JCR: impact factor (2020): 1.154)**

- 7) **Torabi Giglou, M.**, Moharramnejad, S., Panahandeh, J. et al. **2020**. Machine Learning for Detecting Potato Populations Using SSR Markers. *Iran J Sci Technol Trans Sci* 44, 911–918. DOI: <https://doi.org/10.1007/s40995-020-00896-2>. **(JCR: IF 2021:1.553)**

- 8) Pourbeyrami Hir, Y., Yuan, S., **Torabi Giglou, M.** and Jun, M. **2019**. QTLs position of some important ornamental traits in recently developed OO lily population. *Physiol Mol Biol Plants* 25, 1419–1434 (2019). <https://doi.org/10.1007/s12298-019-00688-y>. **(JCR: impact factor (2021): 3.023)**

- 9) SANAYEI, S., BARMABI, M., EBADI, A., & **TORABI-GIGLOU, M.** **2021**. Amelioration of water deficiency stress in roselle (*Hibiscus sabdariffa*) by arbuscular mycorrhizal fungi and plant growth-promoting rhizobacteria. *Notulae Botanicae Horti Agrobotanici Cluj-Napoca*, 49(2), 11987. <https://doi.org/10.15835/nbha49211987>. **(JCR: impact factor (2020): 1.249)**

- 10) Heydarnajad Giglou, R. and **Torabi Giglou, M.** **2023**. Effects of Calyx Coating and Storage Temperature on Antioxidant Substances of Cape Gooseberry (*Physalis Peruviana* L.). *International Journal of Horticultural Science*, 10(1): 23-32. <https://doi.org/10.22059/ijhst.2022.328806.493>

- 11) **Torabi Giglou, M.**, Heydarnajad Giglou, R., Azarmi, R., Salimi, G., Maleki Lajayer, H., Mokhtari, A. M., & Bagherian, M. **2022**. Effects of Kitoplus® and Chitosan coated Iron Nano-oxide on morpho-physiological properties of peppermint under drought stress. *Journal of Vegetables Sciences*, doi: 10.22034/iuvs.2022.546896.1196

- 12) Maleki Lajayer, H., Faridi, F., Torabi-Giglou, M. and Heydarnajad Giglou R. **2022**. Evaluation of the effects of root medium and light quality on morphology and nutritional quality of radish microgreen. *Journal of Vegetables Sciences*. 10.22034/iuvs.2022.553294.1205

- 13) Rezazadeh, b., Ghanbari, g., Pourberami Hir, y. **Torabi Giglou, M.** Zareie, M. and Ghorbani Ghouzhd H. **2022**. The effects of basal media and plant growth regulators on the microshoots proliferation and callus induction of cranberry (*Vaccinum. arctostaphylos L.*) explants. *Research in Pomology*, 7(1).
10.30466/rip.2022.52577.1094
- 14) Esmaelpour, B., Sheikhalipour, M. and **Torabi-Giglou, M.** **2021**. Effects of **Nano silicon** on growth, physiology and biochemical of *Dracocephalum moldavica L.* under salinit stress. *Iranian Journal of Horticultural Science*. Accepted(Article inpress).
- 15) Kanani, M., Chamani, E., Shokouhian, A.A., **Torabi-Giglou, M.** **2021**. Investigation of the process of qualitative change of Damask Rose flower essential oil during different stages of flower phenology in Urmia region. *Iranian Journal of Horticultural Science*. Accepted(Article inpress).
- 16) Rezazad Bari, L., Ghanbari, A., Darvishzadeh, R., **Torabi Giglou, M.**, and Doulati Baneh, H. **2021**. Comparison of phenolic compounds and antioxidant activity of two grapevine root cultivars Rasha and Qzel Ozum. *Iranian Journal of Food Science and Technology*, 111, Vol. 18.
- 17) **Torabi Giglou, M.**, Heydarnajad Giglou, R., Esmaeilpour, B., Azarmi, R. **2020**. 'Effect of Different Concentrations of Kitoplas Growth Stimulator on Morphological Characteristics and Essential Oil in Peppermint Plant under low Irrigation stress', *JOURNAL OF AGRICULTURAL SCIENCE AND SUSTAINABLE PRODUCTION*, 30(3), pp. 169-184.
- 18) **Torabi-Giglou M.**, Norouzi H., Maleki Lajayer H. and Dehdar B. **2020**. Effects of organic and biological fertilizers on growth characteristics and nutrient elements of spinach. *Journal of Vegetables Sciences*; Vol 3, No 6, Pages (109-121). DOI: 10.22034/iuvs.2020.32793
- 19) Esmaelpour B. Shiekhalipour M. and **Torabi-Giglou M.**. **2020**. Effects of **zinc nanoparticles** on growth, some physiological characteristics, and essential oil yield of *Dracocephalum moldavica L.* under salinity stress conditions. *Iranian Journal of Medicinal and Aromatic Plants Research*, Vol. 36, No. 5, 867-884. DOI:10.22092/ijmapr.2020.343320.280.
- 20) Sanayei, S., Barmaki, M., Ebadi khazine Gadim, A., **Torabi Giglou, M.** **2020**. 'Effect of Drought Stress and Inoculation of Mycorrhizal Fungi and *Pseudomonas Spp.* On some Morpho-physiological Characteristics of Roselle (*Hibiscus sabdaeiffa L.*)', *JOURNAL OF AGRICULTURAL SCIENCE AND SUSTAINABLE PRODUCTION*, 30(2), pp. 71-89.
- 21) Gaderi, R., Chamani, E., Maleki Lajayer, H., **Torabi Giglou, M.**, Azarmi, R. **2019**. 'Response of Two Cut Chrysanthemum Cultivars to the Application of Mushroom Waste Compost and Vermi-Compost', *JOURNAL OF AGRICULTURAL SCIENCE AND SUSTAINABLE PRODUCTION*, 29(3), pp. 197-208.
- 22) Jafari, F., Panahandeh, J., Motallebi-azar, AR., and **Torabie-Giglou M.** **2019**. Response of potato's cultivars and promising clones to osmotic and temperature stress under in vitro conditions. 50(3), pp: 633-648. DOI: [10.22059/ijhs.2018.257388.1447](https://doi.org/10.22059/ijhs.2018.257388.1447).
- 23) Jamali, M., Ghanbari, A., Estaji, A., **Torabi Giglou, M.**, Saidi, M. **2019**. 'Genetic diversity of dog rose (*Rosa canina L.*) using ISSR markers'. *Iranian Journal of Genetics and Plant Breeding*, 8(2), pp. 1-8. doi:10.30479/ijgpb.2020.9955.1222. (ISC IF:0.125)
- 24) Panahandeh, J., Jafari, F., Motallebi-azar, A., **Torabi Giglou, M.**, Dehdar masjedlou, B. **2019**. The effect of osmotic and temperature stresses on the nutrients uptake in potato genotypes under In vitro culture. *j.plant proc. func.* 8 (33):229-248.

- 25) Chamani, E., Hosseini Niari, S., Maleki Lajayer, H., Poorbeyrami-Hir, Y., **Torabi Giglou, M.** **2019**. Investigation of the effects of ABA on alleviating drought stress in *Lilium ledebourii* Bioss under in vitro condition, *Journal of Plant Production Research*, 26(1), pp. 141-154. doi: 10.22069/jopp.2019.14476.2297.
- 26) Azarmi R., **Torabi Giglou M.**, and Hosseini Y. **2019**. Influence of *Cucurbita ficifolia* rootstalk and water stress on growth characteristics and yield of greenhouse cucumber. *Journal of Science and Technology of Greenhouse Culture. JOURNAL OF SCIENCE AND TECHNOLOGY OF GREENHOUSE CULTURE*. Volume 10 , 1 (37) ; PP:47-58.
- 27) Jafari F., Panahandeh J., Motallebi-Azar A., and **Torabi-Giglou M.** **2019**. The reaction of cultivars and promising clones of potato to osmotic and temperature stresses under in vitro conditions. *Iranian Journal of Plant Physiology*, Vol (9), No (3). DOI: 10.22034/ijpp.2019.667296 . (Scopus SJR:0.198 Q4- ISC:0.047)
- 28) Azarmi R. and **Torabi-Giglou M.** **2016**. Effect of shading by Saran® clothes on growth and physiological indices and yield of Celery. *Journal of Vegetables Sciences*; 2(4): (53 - 59). DOI: 0.22034/iuvs.2016.32797
- 29) Panahandeh J. Dolatkah G. Motallebi-Azar A. and **Torabi Giglou M.** **2015**. Meiosis in two Mexican and two South American wild diploid potatoes, *Journal of Biology and Nature*; Volume 4(2):104-109.
- 30) **Torabi-Giglou M.**, Panahandeh J., Mohammadi S. A., Zaree-Nahandi F., Motallebi-Azar A., Sliwka J. **2015**. DNA and morphological diversity and relationship analysis of selected cultivated, wild potatoes, and some promising hybrids. *Journal of Biodiversity and Environmental Sciences (JBES)*. Vol. 6, No. 2: 175-186.
- 31) Maralian, H., Didar-Taleshmikail, R., Shahbazi, K., and **Torabi Giglou, M.** **2009**. Study of the Effects of Foliar Application of Fe and Zn on Wheat Quality and Quantity Properties. *Agricultural Research*; 8(4):47-59.
- 32) **Torabi-Giglou M.** and B. Hajieghrari. **2008**. In vitro study on the regeneration of *Gladiolus grandiflorus* corm calli as affected by plant growth regulators. *Pakistan Journal of Biological Science* 11 (8): 1147-1151. DOI: 10.3923/pjbs.2008.1147.1151
- 33) Shokrpour M., **Torabi-Giglou M.**, Asghari A., and Bahrapour S. **2011**. Study of some agronomic attributes in milk thistle (*Silybum marianum* Gaertn.) ecotypes from Iran. *Journal of Medicinal Plants Research*. 5(11): 2169-2174. DOI: 10.5897/JMPR.9001163.
- 34) Aazami M.A., **Torabi Giglou M.**, and Shekari F. **2011**. Responses of some tomato cultivars to sodium chloride stress under in vitro culture condition. *African Journal of Agricultural Research*, 5(18): 2589-2592.
- 35) Aazami M.A., **Torabi Giglou M.**, and Jalili E. **2010**. In vitro response of promising tomato genotypes for tolerance to osmotic stress. *African Journal of Biotechnology*, 9(26):4014-4017.
- 36) Azarmi, R., **Torabi Giglou, M.**, and Hajieghrari B. **2009**. The effect of sheep-manure vermicompost on quantitative and qualitative properties of cucumber (*Cucumis sativus* L.) grown in the greenhouse. *African Journal of Biotechnology* Vol. 8 (19):4953-4957.
- 37) Azarmi R., **Torabi Giglou M.**, and Didar Taleshmikail R. **2008**. Influence of vermicompost on soil chemical and physical properties in tomato (*Lycopersicum esculentum*) field. *African Journal of Biotechnology*. 7 (14):2397-2401.
- 38) Hajieghrari, B. **Torabi Giglou, M.**, Mohammadi M. R., and Davari, M. **2008**. Biological potential of some Iranian *Trichoderma* isolates in the control of soil-borne plant pathogenic fungi. *African Journal of Biotechnology*. 7(8):967-972.

- 39) Hajieghrari, B., **Torabi Giglou M.**, and Waeyenberge L. **2007**. Seven various *Pratylenchus loosi* isolate 28S ribosomal RNA gene, partial sequence submitted in Genebank database NCBI.
- 40) Hajieghrari B., **Torabi Giglou M.**, and Waeyenberge L. **2007**. Comparative d2/d3 LSU-rDNA sequence study of some Iranian *Pratylenchus loosi* populations. African Journal of Biotechnology. 6(21):2458-2466.
- 41) **Torabi-Giglou M.**, Massiha S., Majidi E., KhosrowShahly M., and Valizadeh M. **2001**. Determination of the most suitable growth regulators treatment for *in vitro* shoot tip culture of carnation (*Dianthus caryophyllus* L.). Journal of Agricultural Science 2(11): 41-50.

مقالات ارائه شده در کنفرانسهای علمی:

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- Farnoosh Jafari; Evaluation of thermal stress tolerance and water deficit in several cultivars and potato clones under in vitro conditions. (**Advisor**).2016-2019.
- Laeia Rezazad Barri; Physiological analysis and expression of selected genes of grape varieties in response to salinity stress. (**Advisor**). Started:2017
- Sara Sanayei; Studying the effect of inoculation with plant growth promoting rhizobacteria (PGPR) and mycorrhizal fungi on morphological and physiological characteristics of *Hibiscus Sabdariffa* under drought stress. (**Advisor**). Started:2017
- Mehran Kanani; effects of **nanofertilizers** on essential oil and secondary metabolites of different ecotypes of Damask Rose. (**Advisor**).2018-2021.
- Somayye Bahadori; Study of genetic diversity of different potato genotypes compatible with Iranian conditions using morphological and biochemical traits and molecular markers of cytoplasmic DNA. Not- Defended (**Second Supervisor**). Started:2018
- Rasoul Heydarnejad Giglou; In vitro study of the effects of sucrose, light, and glycine on growth and the levels of secondary metabolites of henbane(**Supervisor**). Started:2019
- Vahid Alizadeh Tazehkand; Initial tests are underway to finalize the proposal(**Supervisor**). Started:2020
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- SeyyedReza Shirinnejadtoloun; Investigation of cultivars compatibility and the effects of drought stress and salicylic acid on growth and yield of Quinoa (*Chenopodium quinoa* Willd.) in Ardabil climatic conditions. The University of Mohaghegh Ardabili. Defended **2020 (Supervisor)**.

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- Mahdi Ojaghy Gerami; The effect of Bio and Nano fertilizers On growth, yield and seed quality of pea (*Pisum sativum* L.). The University of Mohaghegh Ardabili. Defended on September **2018 (Second Supervisor)**.
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- Maryam Jamali; Investigating the genetic diversity of Dog-rose medicinal plant, using molecular markers. The University of Mohaghegh Ardabili. Defended on **2018 (Advisor)**.
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