



Alireza Einali

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Education

- ✓ B.Sc, Plant Biology, University of Isfahan - 2002
- ✓ MS, Plant physiology, Gorgan University - 2005
- ✓ PhD, Plant physiology, University of Isfahan - 2012

Courses

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|---|--|
| 1. Plant growth | 2. Morphogenesis and organogenesis in plants |
| 3. Plant Physiology 1 | 4. Plant Metabolism |
| 5. Mechanism of action of hormones. | 6. natural compound chemistry |
| 7. Molecular mechanisms of photosynthesis | 8. Principles of plant physiology |
| 9. uptake and transport in plant | 10. Plant Developmental Biology |
| 11. Plants Physiology 2 | 12. Phycology Laboratory |
| 13. Phycology | 14. medicinal Plants |

Master Thesis

1. Investigating the antioxidant activities of cactus plant (*Opuntia stricta*) and its extract effect on the growth and physiological activities of chamomile

محدثه کیمیایی [Shahla Hashemi shahraki, Alireza Einali]

نیمسال اول سال تحصیلی 1401-1402

2. The effect of phenylalanine and hydrogen peroxide on the growth and physiology of the unicellular green alga *Dunaliella salina* under salt stress

زینب دهانی [Alireza Einali]

نیمسال اول سال تحصیلی 1401-1402

3. The effect of zinc oxide nanoparticles on *Lepidium sativum* L. in the presence of hydrogen peroxide treatment

شیما ایرنگانی [Alireza Einali, Shahla Hashemi shahraki]

نیمسال دوم سال تحصیلی 01-00

4. The effect of *Juniperus excelsa* extract on growth and physiological characteristics of *Lepidium*

مهديه کرد [Shahla Hashemi shahraki, Alireza Einali]

نیمسال دوم سال تحصیلی 01-00

5. The effect of phenylalanine on reducing the effects of zinc oxide nanoparticles in *Lepidium sativum* L.

منیره امنی خوش [Shahla Hashemi shahraki, Alireza Einali]

نیمسال دوم سال تحصیلی 01-00

6. Effects of manganese on the growth and physiological properties of unicellular green alga *Dunaliella salina* under salinity stress

ندا شهرامی [Alireza Einali]

نیمسال اول سال تحصیلی 01-00

7. Effects of cobalt on the growth and physiological properties of unicellular green alga *Dunaliella bardawil* under salt stress

هاجر صیاداربابی [Alireza Einali]

نیمسال اول سال تحصیلی 01-00

8. The effect of marin alga *Sargasumm* on growth and physiological aspect of fennel under salt stress

سمیرا جهان تیغ [Alireza Einali, Fatemeh Sargazi]

نیمسال دوم سال تحصیلی 99-98

9. The effect of aluminum ion on growth and physiologycal parametrs of green microalga *Dunaliella bardawil* in the presence of salicylic acid

زینب حسین زهی شستان [Alireza Einali]

نیمسال دوم سال تحصیلی 99-98

10. effect of different levels of drought in the presence of ascorbic acid and calcium on some morphophysiological and biochemical traits of Guar

نظام الدین حسینی نژاد [Alireza Einali, S Z]

نیمسال دوم سال تحصیلی 99-98

11. the effect of lead groeth and physiological characteristics of *Dunaliella* in the presence of salisilic acid hormon

الهام ديناري, [Alireza Einali, Fatemeh Sargazi, G G]

نیمسال دوم سال تحصیلی 98-99

12. scorage lipid Metabolism during cold stratification of pistachio kernels

راضیه محمدقاسمی, [Alireza Einali]

نیمسال اول سال تحصیلی 98-99

13. scorage lipid Metabolism during cold stratification of pistachio kernels

حامد اکبری, [Alireza Einali]

نیمسال اول سال تحصیلی 98-99

14. The effect of aluminum ion on growth and physiological parametrers of green microalga Dunaliella bardawil in the presence of salicylic acid

زینب حسین زهی شستان, [Alireza Einali]

نیمسال اول سال تحصیلی 98-99

15. The effect of proline on the physiological and biochemical parameters of unicellular green alga Dunaliella salina under salt stress

فهیمه سرگل زائی, [Alireza Einali]

نیمسال اول سال تحصیلی 98-99

16. The effect of extract Macroalga Sargassum on the growth and physiological properties of unicellular green alga Dunaliella salina under salt stress

سمیه خسروی, [Alireza Einali, Fatemeh Sargazi]

نیمسال اول سال تحصیلی 98-99

17. The effect of marin alga Sargasumm on growth and physiological aspect of fennel under salt stress

سمیرا جهان تیغ, [Alireza Einali, Fatemeh Sargazi]

نیمسال اول سال تحصیلی 98-99

18. the effect of lead groeth and physiological characteristics of Dunaliella in the presence of salisilic acid hormon

الهام ديناري, [Alireza Einali, Fatemeh Sargazi, G G]

نیمسال اول سال تحصیلی 98-99

19. effect of different levels of drought in the presence of ascorbic acid and calcium on some morphophysiological and biochemical traits of Guar

نظام الدین حسینی نژاد, [Alireza Einali, S Z]

نیمسال اول سال تحصیلی 98-99

Journals Papers

2022

1. [Changes in Carbon Partitioning and Pattern of Antioxidant Enzyme Activity Induced by Arginine Treatment in the Green Microalga *Dunaliella salina* Under Long-Term Salinity](#)

Zahra Bamari, Alireza Einali

MICROBIAL ECOLOGY Volume: (84) 198 - 212

2. [Exogenous arginine treatment additively enhances growth and tolerance of *Salicornia europaea* seedlings under salinity](#)

Freshteh Shakhshi dastgahian, Valizadeh Jafar, Monireh Cheniany, Alireza Einali

ACTA BOTANICA CROATICA Volume: (81) 213 - 220

2021

3. [بهینه سازی سنتز سبز و مشخصه یابی نانو ذره های مس اکسید با عصاره آبی برگ گیاه چای ترش \(*Hibiscus sabdariffa* L\)](#)

Sahar Sadeghnia, Ebrahim Mollashahi, Alireza Einali, Omid Azizian-Shermeh

Volume: (15) 12 - 23

4. [فیتوسنتز تک مرحله ای، سریع و مقرون به صرفه نانوذرات طلا پایدار و سازگار با محیط زیست با استفاده از گیاه گل نیمروزی](#)

Elahe Ordoni, Ebrahim Mollashahi, Alireza Einali, Omid Azizian-Shermeh

Volume: (13) 151 - 163

5. [Trehalose treatment alters carbon partitioning and reduces the accumulation of individual metabolites but does not affect salt tolerance in the green microalga *Dunaliella bardawil*](#)

Mahdie Panjekobi, Alireza Einali

PHYSIOLOGY AND MOLECULAR BIOLOGY OF PLANTS Volume: (27) 2333 - 2344

6. [Biological Synthesis of Gold Nanoparticles from Suspensions of Green Microalga *Dunaliella salina* and Their Antibacterial Potential](#)

Elahe Basiratnia, Alireza Einali, Omid Azizian-Shermeh, Ebrahim Mollashahi, Qasemi Ali

BioNanoScience Volume: (11) 977 - 988

7. [Pretreatment of psyllium \(*Plantago ovata*\) seeds with salicylic acid and physiological and biochemical responses of seedlings to salinity stress](#)

Ehsan Hatami, Alireza Einali, Abdulshakoor Raissi, Hossain Piri

Volume: (13) 21 - 42

2020

8. The induction of salt stress tolerance by jasmonic acid treatment in roselle (*Hibiscus sabdariffa* L.) seedlings through enhancing antioxidant enzymes activity and metabolic changes

, Zahra Bamari, Alireza Einali, Jafar Valizadeh

BIOLOGIA Volume: (75) 681 - 692

9. Jasmonic acid-induced metabolic responses in bitter melon (*Momordica charantia*) seedlings under salt stress

, Alireza Einali, Mohammad Hossein Sangtarash

JOURNAL OF HORTICULTURAL SCIENCE and BIOTECHNOLOGY Volume: (95) 247 - 259

2019

10. Metabolic changes and activity pattern of antioxidant enzymes induced by salicylic acid treatment in green microalga *Dunaliella salina* under nitrogen deficiency

, Alireza Einali, Jafar Valizadeh

JOURNAL OF APPLIED PHYCOLOGY Volume: (31) 1709 - 1719

11. Metabolic responses of the green microalga *Dunaliella salina* to silver nanoparticles-induced oxidative stress in the presence of salicylic acid treatment

Elham Bahador, Alireza Einali, Omid Azizian-Shermeh, Mohammad Hossein Sangtarash

AQUATIC TOXICOLOGY Volume: (217) 105356-1 - 105356-10

2018

12. Phytochemical screening and antimicrobial activities of *Periploca aphylla* Decne Persian walnut (*Juglans regia* L.) and oleander (*Nerium indicum* Mill.) Leaf extracts

Alireza Einali, Omid Aziziyan shermeh, Qasemi Ali

Journal of Food Measurement and Characterization Volume: (12) 1350 - 1359

13. بر اثر غلظت‌های مختلف عنصر (Ocimum basilicum) پاسخ‌های فیزیولوژیک و بیوشیمیایی گیاه ریحان روی

Omid Aziziyan shermeh, Alireza Einali, jafar valizadeh

Volume: (10) 35 - 56

14. The induction of salt stress tolerance by propyl gallate treatment in green microalga *Dunaliella bardawil* through enhancing ascorbate pool and antioxidant enzymes activity

Alireza Einali

PROTOPLASMA Volume: (255) 601 - 611

2017

15. Storage reserve mobilization gluconeogenesis and oxidative pattern in dormant pistachio (*Pistacia vera* L.) seeds during cold stratification

Alireza Einali, Valizadeh Jafar

TREES-STRUCTURE AND FUNCTION Volume: (31) 659 - 671

16. Metabolic responses and B-carotene production by the unicellular green alga *Dunaliella salina* exposed to leaf extracts

Alireza Einali, Sahar Mazang Ghasemy, Valizadeh Jafar, Meissam Noroozifar

Acta Botanica Brasilica Volume: (31) 180 - 190

17. Physiological and biochemical responses of *Hibiscus sabdariffa* to drought stress in the presence of salicylic acid

, Alireza Einali, Valizadeh Jafar

Volume: (9) 21 - 38

18. Rapid biologically one-step synthesis of stable bioactive silver nanoparticles using Osage orange (*Maclura pomifera*) leaf extract and their antimicrobial activities

Omid Aziziyan shermeh, Alireza Einali, Qasemi Ali

ADVANCED POWDER TECHNOLOGY Volume: (28) 3164 - 3171

2016

19. Tolerance induction to stress caused by lavender (*Lavandula angustifolia*) extracts in the microalga *Dunaliella salina* through metabolic modifications and -carotene production.

Sahar Mazang Ghasemy, Alireza Einali, Valizadeh Jafar, Meissam Noroozifar

Volume: (8) 63 - 80

20. Study of Musa DHN-1 Gene Expression from Banana Cultivar of Dwarf Cavendish under Salinity Treatment

, , Sangtrash Mohammad Hosein, , Alireza Einali, ,

Der Pharmacia Lettre Volume: (8) 413 - 418

2015

21. Effects of propyl gallate on photosystem II efficiency in *Dunaliella bardawil* under high illumination as investigated by chlorophyll fluorescence measurements

Alireza Einali, mansour shariati

Theoretical and Experimental Plant Physiology Volume: (27) 61 - 73

22. Effect of propyl gallate on photosystem II efficiency in unicellular green alga *Dunaliella salina* as probed by chlorophyll fluorescence measurements

Alireza Einali, Mansour Shariati, Marzieh Paizi

Volume: (27) 915 - 926

23. Propyl gallate promotes salt stress tolerance in green microalga *Dunaliella salina* by reducing free radical oxidants and enhancing b-carotene production

Alireza Einali, Valizadeh Jafar

ACTA PHYSIOLOGIAE PLANTARUM Volume: () 37 - 83

2014

24. Relationship between -carotene accumulation and cold stress resistance in unicellular green alga *Dunaliella* using Chl-a fluorescence kinetic

Marzieh Paizi, Alireza Einali, Mansour Shariati

Volume: (27) 363 - 375

25. با استفاده از *Dunaliella salina* در جلبك سبز تك سلولي II اثر پروپيل گالات بر كارايي فتوسيسستم a اندازه-گيري فلورسنس كلروفيل

Alireza Einali, ,

Volume: () 915 - 926

Conferences Papers

1. The effect of pH on facile one-pot phytosynthesis of Ag/Fe bimetallic nanoparticles using leaf aqueous extract of *Maclura pumifera*

2021

2. Lipid mobilization during stratification of pistachio (*Pistacia vera*) kernels

2nd National Conference on New Biological Findings

Raziye Mohammadghasemi, Alireza Einali

3. The effect of proline on biochemical and physiological properties of *Dunaliella salina* under salt stress

2nd National Conference on New Biological Findings

4. Effect of Jasmonic Acid on Total Amino Acids Proline and Enzymes Activity *karela* (*Momordica charantia*) under Salinity Stress

20th National and 8th International Congress on Biology

, Alireza Einali, Sangtrash Mohammad Hosein

2017

5. antioxidant activity and phenolic content of *Nepeta glomerulus* Bioss from Mazandaran and Golestan provinces

1st National Conference on Future of Engineering and Technology

Alireza Einali, Omid Aziziyan shermeh

6. The effect of different concentrations of ascorbic acid and salt NaCl on growth indices of unicellular green algae *Danaliella salina*

1st International Joint Conference on New Trends In Biotechnology

Samaneh Eskandarpor, Alireza Einali, Valizadeh Jafar, Milad Lagzian

2016

7. phytochemical analysis and antioxidant activities of *Cannabis sativa*

The second international and the fifth national conference of medical herbs and stable agriculture

, Valizadeh Jafar, Meissam Noroozifar, Alireza Einali

8. Determination of total phenol, flavonoid and antioxidant activity of *Ducrosia anethifolia* from Sistan and Baluchestan province

The second international and the fourth national Conference of Medical Herbs Conventional Medicine and Organic Agriculture

Alireza Einali, Omid Aziziyan shermeh

9. Determination of antioxidant activity and total phenols and flavonoids of *Reum ribes* from Sistan and Baluchestan province

The second international and the fourth national Conference of Medical Herbs Conventional Medicine and Organic Agriculture

Alireza Einali, Omid Aziziyan shermeh

10. phytochemical investigation and antioxidant and antibacterial activity of *Salvadora persica* from Sistan and Baluchestan province

Global Conference on Agricultural Research Natural Resources and Environment

Alireza Einali, Omid Aziziyan shermeh

11. Assessment of antioxidant antibacterial activities and phenolics in *Momordica charantia* from Sistan and Baluchestan province

The third international and the Sixth national conference of Medical Herbs and Stable Agriculture

Alireza Einali, Omid Aziziyan shermeh

12. phytochemical antioxidant and antibacterial activities of root extracts of *Sumbacus* from Mazandaran province

The third international and the Sixth national conference of Medical Herbs and Stable Agriculture

Alireza Einali, Omid Aziziyan shermeh

Executive activities
