

CURRICULUM VITAE

ALI SHARAFI



- **BIRTHDAY:** March 1982
 - **NATIONALITY:** Iranian
 - **POSITION:** Assistant Professor at **Department of Pharmaceutical Biotechnology, School of Pharmacy, Zanjan University of Medical Sciences**
 - Director of **Zanjan Pharmaceutical Biotechnology Research Center**
 - Director of **Working Group of the Internationalization of Education** the Zanjan University of Medical Sciences
 - Member of **Technology Council for Pharmaceutical Technology Development**
 - Member of **Health Technology Council** of Zanjan University of Medical Sciences
 - Member of **Zanjan Applied Pharmacology Research Center**
 - Member of **Zanjan Cancer Gene Therapy Research Center**
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Ph. D: Biology, Molecular Genetics (2008- 2013)

UNIVERSITY: National Institute of Genetic Engineering and Biotechnology (NIGEB), Tehran, Iran

TEACHING EXPERIENCES

Faculty member at Zanjan University of Medical Sciences (2013-Now)

Lecturer at Payam Noor University (Alborz, Karaj) (2009-2012)

Lecturer at Azad University (2009-2012)

Teaching: Molecular Biology, Molecular Genetics, Pharmaceutical Biotechnology, Advanced Cellular and Molecular Biology, Plant Cell and Tissue Culture, Animal Cell Culture, Bioinformatics, ...

RESEARCH INTERESTS

- Medicinal Plant Biotechnology and Natural Products
 - Recombinant Proteins and Vaccine design
 - Cancer and Neurodegenerative diseases
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ACHIEVEMENT / AWARD/ FELLOWSHIP

Top University Professor award from **Zanjan University of Medical Sciences, Zanjan, Iran (2020)**

Outstanding researcher award from **Zanjan governor-general (2019)**
Outstanding researcher award from Zanjan Pharmaceutical Biotechnology Research Center, (2018)
Diploma for best presentation award from 25th Annual Conference “Modern Aspects of Biochemistry and Biotechnology” **National Academy of Sciences of Ukraine (2017)**
Diploma for best presentation award from 3rd edition of the International Symposium Young Researchers in Bio-Sciences, **Cluj, Romania (2016)**
Scholarship from International Center for Genetic Engineering and Biotechnology, **Trieste, Italy (2013), Bucharest, Romania (2014), Cape town, South Africa (2016) and Colombo, Sri-Lanka (2018)** for contribution in workshop and presentation
Research Scholarship for sabbatical leave (6 months Fellowship) to Karolinska Institute & Royal Institute of Technology (KTH), **Stockholm, Sweden (2012- 2013)**
Second rank of “National Master's Degree Entrance Examination” Iran (2004)

PUBLICATIONS WITH PEER REVIEW PROCESS

1. Manoochehr Emamian, Akbar Abbaspour, Tina Shahani, Alireza Biglari, **Ali Sharafi* (2021)** Non-viral suicide gene therapy: cytosine deaminase gene directed by VEGF promoter and 5-fluorocytosine as a gene directed enzyme/prodrug system in breast cancer model. **Drug Research**
2. **Ali Sharafi**, Mir-Jamal Hosseini (2021) Correlation between Coenzyme Q10 content and the nutrient sensors in AKI induced by Hemiscorpius lepturus envenomation. **BioImpact**.
3. Rana Dizaji, Firoozeh Nazari, Khosrokhavar, **Ali Sharafi**, Jamal Hosseini (2021) The Role of PGC-1 α and metabolic signaling pathway in kidney injury following chronic administration with 3-MCPD as a food processing contaminant. **Journal of Food Biochemistry**
4. Zahra Gharari, Khadijeh Bagheri, Giti Karimkhanlouei, **Ali Sharafi* (2021)** Study of tissue culture and *in vitro* organogenesis of *Scutellaria bornmuelleri* using Benzylaminopurine, Isopentenyl adenine and Thidiazuron. **South African Journal of Botany**. 139 458_469. DOI:10.1016/j.sajb.2021.03.030
5. Zahra Gharari, Khadijeh Bagheri, **Ali Sharafi (2021)** Fractional Analysis of Dichloromethane Extract of *Scutellaria araxensis* Grossh root and shoot by HPLC-PDA-ESI-MSn. **Natural Product Research**. DOI: 10.1080/14786419.2021.1903003
6. Akbar Abbaspour, Abdolreza Esmailzadeh, **Ali Sharafi*(2021)** Suicide gene therapy mediated purine nucleoside phosphorylase/fludarabine system for *in vitro* breast cancer model with emphasis on evaluation of vascular endothelial growth factor promoter efficacy. **3Biotech**. doi.org/10.1007/s13205-021-02692-0
7. Fatemeh Kianpour, Mahtab Mohseni, Alireza Yazdinezhad, Jamal Hosseini, **Ali Sharafi* (2021)** The protective effects of *Ziziphora tenuior* L. against chlorpyrifos

- induced toxicity: Involvement of inflammatory and cell death signaling pathway. **Journal of Ethnopharmacology**. doi.org/10.1016/j.jep.2021.113959
8. Soroush Bijani, Zahra Gharari, Alireza Ahmadnia, Hossein Danafar, **Ali Sharafi*** (2021) A comparative study of apigenin content and antioxidant potential of *Cosmos bipinnatus* transgenic root culture. **Pharmaceutical and Biomedical Research**
 9. Hossein Rahimi, Marziyeh Salehiabar, Murat Barsbay, Mohammadreza Ghaffarlou, Taras Kavetsky, **Ali Sharafi**, Soodabeh Davaran, Subhash C Chauhan, Hossein Danafar, Saeed Kaboli, Hamed Nosrati, Murali M Yallapu, João Conde (2021) CRISPR Systems for COVID-19 Diagnosis. **ACS Sensors**. DOI: 10.1021/acssensors.0c02312
 10. Zahra Gharari, Mozghan Aghajanzadeh, **Ali Sharafi** (2021) *Scutellaria orientalis* subsp. Bornmuelleri: Phytochemical Composition and Biological Activities. **Natural Product Research**. DOI: 10.1080/14786419.2021.1875463
 11. Mahmoud Gharbavi, Hossein Danafar, Jafar Amani, **Ali Sharafi*** (2021) Immuno-informatics analysis and expression of a novel multi-domain antigen as a vaccine candidate against glioblastoma. **International Immunopharmacology**. DOI: 10.1016/j.intimp.2020.107265
 12. Samaneh Rahamooz, Khadijeh Bagheri, Hossein Danafar, **Ali Sharafi*** (2021) Anti-Proliferative Properties, Biocompatibility, and Chemical Composition of Different Extracts of *Plantago major* Medicinal Plant. **Iranian Biomedical Journal**. 25 (2) 106-117.
 13. Samaneh Rahamooz Haghghi, Khadijeh Bagheri, **Ali Sharafi**, Hossein Danafar (2021) Improving seed germination, *in vitro* organogenesis and regeneration of *Plantago major* medicinal plant. **Journal of Plant Research (Iranian Journal of Biology)**.
 14. Mahmoud Gharbavi, Behrooz Johari, Elham Rismani, Navid Mousazadeh, Amir Hossein Taromchi, **Ali Sharafi*** (2020) NANOG Decoy Oligodeoxynucleotides-Encapsulated Niosomes Nanostructures: a Promising Approach to Suppressing the Metastatic Properties of U87 Human Glioblastoma Multiforme Cells. **ACS Chemical Neuroscience**. DOI: 10.1021/acchemneuro.0c00699
 15. Zahra Gharari, Khadijeh Bagheri, Behnam Derakhshani, **Ali Sharafi*** (2020) HPLC-DAD-ESI/MSⁿ analysis of phenolic components of *Scutellaria araxensis*, *S. bornmuelleri* and *S. orientalis*. **Natural Product Research**. DOI: 10.1080/14786419.2020.1837810
 16. Mehnoush Nikpour, **Ali Sharafi**, Mehrdad Hamidi, Sina Andalib (2020) Effect of Colloidal Aqueous Solution of Fullerene (C60) in the Presence of a P-Glycoprotein Inhibitor (Verapamil) on Spatial Memory and Hippocampal Expression of Sirtuin6, SELADIN1, and AQP1 Genes in a Rat Model of Alzheimer's Disease. **ACS Chemical Neuroscience** 11 (17), 2549-2565

17. Firouzeh Nazari, Parvaneh Naserzadeh, Rana Dizaji, Hamidreza Kheiri Manjili, Hadis Bahrami, Mina Soleimani, **Ali Sharafi**, and Mir-Jamal Hosseini (2020) Toxicological assessment of 3-monochloropropane-1,2-diol (3-MCPD) as a main contaminant of foodstuff in three different *in vitro* models: Involvement of oxidative stress and cell death signaling pathway. **Journal of Food Sciences**. DOI: 10.1111/1750-3841.15471

18. Mahmoud Gharbavi, Behrooz Johari, Seyed Sadegh Eslami, Navid Mousazadeh, **Ali Sharafi*** (2020) Cholesterol-Conjugated Bovine Serum Albumin Nanoparticles as a Tamoxifen Tumor-Targeted Delivery System. **Cell Biology International**. DOI: 10.1002/cbin.11455

19. Mahmoud Gharbavi, Behrooz Johari, Navid Mousazadeh, Bahareh Rahimi, Milad Parvinzad Leilan, Seyed Sadegh Eslami, **Ali Sharafi*** (2020) Hybrid of niosomes and bio-synthesized selenium nanoparticles as a novel approach in drug delivery for cancer treatment. **Molecular Biology Reports**. DOI: 10.1007/s11033-020-05704-z

20. Samaneh Rahamooz-Haghighi, Khadijeh Bagheri, **Ali Sharafi*** (2020) Establishment and elicitation of transgenic root culture of *Plantago lanceolata* and evaluation of its anti-bacterial and cytotoxicity activity. **Preparative Biochemistry & Biotechnology**. DOI: 10.1080/10826068.2020.1805757.

21. Elmira Mohammadi, Khadijeh Bagheri, Mina Beigmohammadi, **Ali Sharafi*** (2020) *In vitro* direct organogenesis and genetically transformed root cultures in *Artemisia sieberi* Besser as a source of pharmaceutical compound artemisinin. **Journal of BioScience and Biotechnology**

22. Zahra Gharari, Khadijeh Bagheri, Hossein Danafar, **Ali Sharafi*** (2020) Chemical composition and antimicrobial activity of *Scutellaria araxensis* essential oil from Iran. **Chemistry of Natural Compounds**, Vol. 56, No. 4, DOI 10.1007/s10600-020-03137-5

23. Zahra Gharari, Khadijeh Bagheri, **Ali Sharafi*** (2020) Establishment of *in vitro* genetically engineered cultures in *Scutellaria orientalis* and *S. araxensis*. **Biologia**. DOI: 10.2478/s11756-020-00540-9

24. Mozghan Aghajanzadeh, Sina Andalib, Hossein Danafar, Kobra Rostamizadeh, **Ali Sharafi*** (2020) The effect of Baicalein-loaded Y-shaped miktoarm copolymer on spatial memory and hippocampal expression of DHCR24, SELADIN and SIRT6 genes in rat model of Alzheimer. **International Journal of Pharmaceutics**. DOI: 10.1016/j.ijpharm.2020.119546

25. Ehsan Naderi, Mozghan Aghajanzadeh, Mostafa Zamani, **Ali Sharafi**, Mahmoud Naseri, Hossein Danafar (2020) The Effect of Calcination Temperature on the Anticancer Activity of CaFe₂O₄ @ PVA Nanocarriers: Photodynamic Therapy and Drug Delivery Study. **Journal of Inorganic and Organometallic Polymers and Materials**. DOI :10.1007/s10904-020-01653-z

26. Mahmoud Gharbavi, **Ali Sharafi**, Saeed Ghanbarzadeh (2020) Mesenchymal Stem Cells: A New Generation of Therapeutic Agent Vehicles in Gene Therapy. **Current Gene Therapy**. DOI: 10.2174/1566523220666200607190339
27. Mahroo Ahmari, **Ali Sharafi**, Javad Mahmoudi, Iraj Jafari-Anarkoli, Mahmoud Gharbavi, Mir-Jamal Hossein (2020) Selegiline (L-Deprenyl) Mitigated Oxidative Stress, Cognitive Abnormalities, and Histopathological Change in Rats: Alternative Therapy in Transient Global Ischemia. **Journal of Molecular Neuroscience**. 70(10) 1639-1648. DOI: 10.1007/s12031-020-01544-5
28. Mahmoud Gharbavi, Giti Karimkhanlooei, Jafar Amani, **Ali Sharafi*** (2020) A Recently Developed Approach in Cancer Therapy *via Salmonella*. **BioTechnologia**. 101 (3) 253–267
29. Mozghan Aghajanzadeh, Ehsan Naderi , Mostafa Zamani , **Ali Sharafi**, Mahmoud Naseri, Hossein Danafar (2020) *In vivo* and *In vitro* Biocompatibility Study of MnFe₂O₄ and Cr₂Fe₆O₁₂ as Photosensitizer for Photodynamic Therapy and Drug Delivery of Anti-Cancer Drugs. **Drug Development and Industrial Pharmacy**. 46 (5), 846–851. DOI: 10.1080/03639045.2020.1757698
30. Mahmoud Gharbavi, Hossein danafar, **Ali Sharafi*** (2020) Microemulsion and Bovine Serum Albumin Nanoparticles (BSANPs) as Novel Hybrid Nanocarrier System for Efficient Multifunctional Drug Delivery. **Journal of Biomedical Materials Research Part A**. 108:1688–1702. DOI: 10.1002/jbm.a.36935
31. Ehsan Naderi, Mozghan Aghajanzadeh, Atousa Hashiri, **Ali Sharafi**, Ahmad Kamalianfar, Mahmoud Goodarz Naseri, Hossein danafar (2020) Improving the anti-cancer activity of Quercetin-loaded AgFeO₂ through UV irradiation: synthesis, characterization, and in vivo and in vitro biocompatibility study. **Journal of Drug Delivery Science and Technology**. DOI: 10.1016/j.jddst.2020.101645
32. Mahmoud Gharbavi, **Ali Sharafi**, Puria Motamed Fath, Saeed Oruji, Hamidreza Kheiri Manjili (2020) Formulation and Biocompatibility of Microemulsion-Based PMBN as an Efficient System for Paclitaxel Delivery. **Journal of Applied Biotechnology Reports**.
33. Kamal Rashidi Asl, **Bahman Hosseini**, **Ali Sharafi**, **Hamed Mohammadpour** (2020) h6h gene transcript enhancement and production of tropane alkaloids in *Hyoscyamus reticulatus* L. hairy root cultures elicited by *Fusarium graminearum* extract. **Cellular and Molecular Researches (Iranian Journal of Biology)**, 33(3): 420-431
34. Samaneh Rahamooz-Haghighi, Khadijeh Bagheri, Hossein danafar, **Ali Sharafi*** (2020) Tissue culture, *in vitro* organogenesis and regeneration of *Plantago lanceolata*. **Journal of Applied Biotechnology Reports**. 10.30491/JABR.2021.122254. 7 (4) 258-265
35. Zahra Gharari, Khadijeh Bagheri, Hossein Danafar, **Ali Sharafi*** (2020) Enhanced flavonoid production in hairy root cultures of *Scutellaria bormmuelleri* by

- elicitor induced over-expression of MYB7 and FNSII2 genes. **Plant Physiology and Biochemistry**. **148** (2020) 35–44
36. Rana Dizaji, **Ali Sharafi**, Jalal Pourahmad, Saba Vatanpour, Mir-Jamal Hosseini, Hossein Vatanpour (2019) The effects of *Hemiscorpius lepturus* induced-acute kidney injury on PGC-1 α gene expression: from induction to suppression in mice. **Toxicon**. **174**. 57-63. DOI: 10.1016/j.toxicon.2019.12.154
 37. Zahra Gharari, **Ali Sharafi**, Khadijeh Bagheri, Alireza Yazdinejad, Soroush Bijani (2019) *In vitro* regeneration and secondary metabolites of *V. caspia* subsp. *sylvestrioides* Marcussen. **BioTechnologia**. 100 (4) 407–415
 38. Zahra Gharari, Khadijeh Bagheri, Hossein Danafar, **Ali Sharafi*** (2019) Simultaneous determination of Baicalein, Chrysin and Wogonin in four *Scutellaria* species by high performance liquid chromatography. **Journal of Applied Research on Medicinal and Aromatic Plants**. DOI: 10.1016/j.jarmap.2019.100232
 39. Mina BeigMohammadi, Samineh Jafari, **Ali Sharafi** (2019) An Optimized Protocol for *Agrobacterium rhizogenes*-Mediated Genetic Transformation of *Citrullus colocynthis*. **Journal of Applied Biotechnology Reports**. **6(3):113-117**
 40. Mina BeigMohammadi, Ali Movafeghi, Samineh Jafari, **Ali Sharafi** (2019) Potential of the Genetically Transformed Root Cultures of *Plumbago europaea* for Biomass and Plumbagin Production. **Biotechnology Progress**. DOI: 10.1002/btpr.2905
 41. Zahra Gharari, Khadijeh Bagheri, Mortaza Khodaeiaminjan, **Ali Sharafi** (2019) Potential Therapeutic Effects and Bioavailability of Wogonin, the Flavone of Baikal Skullcap. **Journal of Nutritional Medicine and Diet Care**. DOI: 10.23937/2572-3278.1510039
 42. Sedigheh Azizi, Hamed Nosrati, Hossein Danafar, **Ali Sharafi** (2019) Preparation of bismuth sulfide nanoparticles from albumin as targeted biocompatible nano-radiosensitizer and carrier of methotrexate. **Applied Organometallic Chemistry**. DOI: 10.1002/aoc.5251
 43. Rana Dizaji, **Ali Sharafi**, Jalal Pourahmad, Mohammad-Amin Abdollahifar, Mir-Jamal Hosseini, Hossein Vatanpour (2019) Induction of two independent immunological cell death signaling following hemoglobinuria -induced acute kidney injury: *In vivo* study. **Toxicon**. 163. 23-31. DOI: 10.1016/j.toxicon.2019.03.011
 44. Rana Dizaji, **Ali Sharafi**, Jalal Pourahmad, Mohammad-Amin Abdollahifar, Mir-Jamal Hosseini, Hossein Vatanpour (2019) Involvement of necroptosis and ferroptosis pathway signaling in *Hemiscorpius lepturus* venom -induced acute kidney injury. **Toxicon**. DOI: 10.1016/j.toxicon.2018.11.348
 45. Zahra Gharari, Khadijeh Bagheri, Hossein Danafar, **Ali Sharafi*** (2019) Essential oil composition of two *Scutellaria* species from Iran. **Journal of Traditional Chinese Medical Sciences**. DOI: 10.1016/j.jtcms.2019.07.003

46. Mahsa Yousefi-Mokria, **Ali Sharafi**, Shahla Rezaei, Salar Sadeghian-Abadi, Somaye Imanparast, Mehdi Mogharabi-Manzari, Yaghoob Amanzadeh, Mohammad Ali Faramarzi (2019) Enzymatic hydrolysis of inulin by an immobilized extremophilic inulinase from the halophile bacterium *Alkalibacillus filiformis*. **Carbohydrate Research**. 483 (2019) 107746
47. Mina Beigmohammadi, Ali Movafeghi, **Ali Sharafi***, Samineh Jafari, Hossein Danafar (2019) Cell Suspension Culture of *Plumbago europaea* L towards Production of Plumbagin. **Iranian Journal of Biotechnology**. DOI: 10.21859/ijb.2169
48. Hossein Danafar, Farnaz Asadi, **Ali Sharafi**, Hamidreza Kheiri Manjili (2019) Preparation and Evaluation of pH Sensitive Novel Anticancer Drug Carrier Based on Magnetic Chitosan Quartets. **Drug Res**. DOI: 10.1055/a-0855-8464
49. Mahmoud Gharbavi, Jafar Amani, Hossein Danafar, Hamidreza Kheiri Manjili, **Ali Sharafi*** (2019) *In Vivo* and *In Vitro* Biocompatibility Study of Novel Microemulsion Hybridized with Bovine Serum Albumin as Nanocarrier for Drug Delivery. **Heliyon**.
50. Zahra Gharari, Khadijeh Bagheri, **Ali Sharafi**, Hossein Danafar (2019) Thidiazuron induced efficient *in vitro* organogenesis and regeneration of *Scutellaria bornmuelleri*: an important medicinal plant. **In Vitro Cellular & Developmental Biology – Plant**. DOI: 10.1007/s11627-019-09965-7
51. Kamal Rashidi Asl, Bahman Hosseini, **Ali Sharafi**, Javier Palazon (2019) Influence of Nano-Zinc oxide on tropane alkaloid production, h6h gene transcription and antioxidant enzyme activity in *Hyoscyamus reticulatus* L. hairy roots. **Engineering in Life Sciences**. DOI: 10.1002/elsc.201800087. 19(1) 73-89
52. Mahmoud Gharbavi, Jafar Amani, Hamidreza Kheiri-Manjili, Hossein Danafar, **Ali Sharafi*** (2018) Niosome: A Promising Nanocarrier for Natural Drug Delivery through Blood-Brain Barrier. **Advances in Pharmacological Sciences**. DOI: 10.1155/2018/6847971
53. Hassan Alijani, Soheila Matroodi, **Ali Sharafi**, Isaac Zamani (2019) Antimicrobial Activity and Molecular Identification of *Nocardiosis* sp. AHA2 from Deylam Nearshore Sediments. **Oceanography**. 9(36) 1-3
54. Mostafa Zamani, Ehsan Naderi, Mozghan Aghajanzadeh, Mahmoud Naseri, **Ali Sharafi**, Hossein Danafar (2019) Co1-XZnxFe₂O₄ based nanocarriers for dual-targeted anticancer drug delivery: synthesis, characterization and *in vivo* and *in vitro* biocompatibility study. **Journal of Molecular Liquids**. DOI: 10.1016/j.molliq.2018.10.083
55. Rahamooz-Haghighi, S., Bagheri, K., **Ali Sharafi** (2018) Tissue culture and *in vitro* regeneration of *Plantago major*. **Journal of Medicinal Plants Biotechnology**, 4(1)37-43

56. Mozghan Aghajanzadeh, Mostafa Zamani, Kobra Rostamizadeh, **Ali Sharafi**, Hossein Danafar (2018) The role of miktoarm star copolymers in drug delivery systems. **Journal of Macromolecular Science, Part A**. DOI: 10.1080/10601325.2018.1483200
57. Balal Dehqani, Amir Mousavi, Sadegh Hassannia, Ali Hatf Salmanian, **Ali Sharafi** (2018) Expression of recombinant human bone morphogenetic protein 2 (rhBMP2) in tobacco transgenic hairy roots. **Journal of Agricultural Biotechnology**. 10(1) 21-34
58. Mojgan Aghajanzadeh, **Ali Sharafi** (2018) Amphiphilic Y shaped miktoarm star copolymer for anti-cancer hydrophobic and hydrophilic drugs co-delivery: synthesis, characterization, *in vitro* and *in vivo* biocompatibility study. **Journal of Biomedical Materials Research Part A**. DOI: 10.1002/jbm.a.36468
59. Mehdi jaberi, **Ali Sharafi***, Ata Allah Sharafi, Pejman Azadi, Hamidreza Kheiri-Manjili, Hossein Danafar, Alireza Ahmadnia (2018) Genetically transformed root- based culture technology in medicinal plant *Cosmos bipinnatus*. **Jundishapur Journal of Natural Pharmaceutical Products**. DOI:10.5812/jjnpp.67182
60. **Ali Sharafi** (2018) PAMAM modified citric acid coated magnetic nanoparticles as pH sensitive biocompatible carrier against human breast cancer cells. **Drug Development and Industrial Pharmacy (IDDI)**. DOI: 10.1080/03639045.2018.1451881
61. Mehdi Jaberi, Pejman Azadi, Behzad Gharehyazi, **Ali Sharafi** (2018) Silver nitrate and adenine sulphate induced high regeneration frequency in recalcitrant plant *Cosmos bipinnatus* using cotyledon explant. **Journal of Horticultural Science and Biotechnology**. 93 (2) 204-208
62. Hossein Danafar, **Ali Sharafi**, Shaghayegh kheiri, Hamidreza Kheiri (2018) Co - delivery of Sulforaphane and Curcumin with PEGylated Iron Oxide-Gold Core Shell Nanoparticles for delivery to breast cancer cell line. **Iranian Journal of Pharmaceutical Research**. 17(2) 480-494
63. Hamed Nosrati, Naser Sefidi, **Ali Sharafi**, Hossein Danafar, Hamidreza Kheiri Manjili (2018) Bovine Serum Albumin (BSA) coated iron oxide magnetic nanoparticles as biocompatible carriers for Curcumin-anticancer drug. **Bioorganic Chemistry**. 76 501–509
64. Hassan Alijani, Soheila Matroodi, **Ali Sharafi**, Isac Zamani (2017) Diversity and antimicrobial activities of *streptomyces* isolated from intertidal sediments of Deylam, Iran. **Razi Journal of Medical Sciences**. 24(162): 22-31
65. Ata Allah Sharafi, Asad Asadi Abkenar, **Ali Sharafi*** (2017) Molecular genetic diversity assessment of Citrus species grown in Iran revealed by SSR, ISSR and CAPS molecular markers. **Journal of Science and Research: Revista Ciencia E Investigaci** 2 (8) 22-27
66. Hossein Danafar, **Ali Sharafi**, Sonia Askarlou, Hamidreza Kheiri (2017) Preparation and Characterization of PEGylated Iron Oxide-Gold Nanoparticles

for Delivery of Sulforaphane and Curcumin. **Drug Research**. DOI: 10.1055/s-00023610

67. Pejman Azadi, Khadijeh Bagheri, Mitra Gholami, **Ali Sharafi (2017)** Thin Cell Layer, a Suitable Explant for *In vitro* Regeneration of Saffron (*Crocus sativus* L.). **J. Agr. Sci. Tech.** Vol. 19
68. Hossein Danafar, Hamidreza Kheiri, Elaheh Attari, **Ali Sharafi (2017)** Investigation of Drug Delivery of Rattle-Structured Gold Nanorod-Mesoporous Silica Nanoparticles Core–Shell as Curcumin Carrier and Their Effect on MCF7 and 4T1 Cell Lines. **Journal of Zanzan University of Medical Sciences**. 25 (113): 124-136
69. Hamidreza Kheiri, **Ali Sharafi**, Hossein Danafar (2017) Assessment of biodegradability and cytotoxicity of mPEG-PCL diblock copolymers and PCL-PEG-PCL tri block copolymers on HEK293 cells. **Scientific Journal of Kurdistan University of Medical Sciences**. 89: 113-125
70. **Ali Sharafi***, Khadijeh Bagheri, Hamideza Kheiri, Hossein Danafar (2017) Golden Roots platform: The *in vitro* Genetically Engineered Cultures for Artemisinin Production. **Ukr. Biochem. J.**, Vol. 89, N 3.
71. Fereshtee Moharrami, Bahamin Bahman Hosseini, **Ali Sharafi**, Manouchehr Farjaminezhad (2017) Enhanced production of hyoscyamine and scopolamine from genetically transformed root culture of *Hyoscyamus reticulatus* L. elicited by iron oxide nanoparticles. **In Vitro Cellular & Developmental Biology**. DOI: 10.1007/s11627-017-9802-0
72. Hamidreza Kheiri Manjili, **Ali Sharafi**, Elahe Attari, Hossein Danafar (2017) Pharmacokinetics and *in vitro* and *in vivo* delivery of sulforaphane by PCL–PEG–PCL copolymeric-based micelles. **Artificial Cells, Nanomedicine, And Biotechnology**. DOI: 10.1080/21691401.2017.1282501
73. Farnoush Berahmand, Negin Beizae, Maryam Dehghan Nayyeri, **Ali Sharafi***, Hamidreza Kheiri Manjili, Hossein Danafar (2016) *Cannabis sativa* L. genetically transformed root based culture via *Agrobacterium rhizogenes*. **Pharmaceutical and Biomedical Research**. 2(3), 10-5
74. **Ali Sharafi**, Hamidreza Kheiri, Soroush Bijani, Alireza Ahmadnia, Hossein Danafar (2016) Simple and Sensitive High Performance Liquid Chromatographic (HPLC) Method for the Determination of the Apigenin from Dried Powder of *Cosmos Bipinnatus*, *Apium Graveolens* and *Petroselinum Crispum*. **Iranian Journal of Pharmaceutical Sciences**. 12 (2): 21-32
75. Zahra Ghasemi , Mehrdad Hashemi, Mahsa Ejabati, Seyyed Meisam Ebrahimi, Hamidreza Kheiri , Ali Sharafi , Ali Ramazani (2016) Development of a High-Resolution Melting Analysis Method for CYP2C19*17 Genotyping in Healthy Volunteers. **Avicenna Journal of Medical Biotechnology**. 8 (4), 193-199
76. Hassan Alijani, Soheila Matroodi, **Ali Sharafi***, Eshaq Zamani (2016) Antimicrobial activity of marine actinomycete *Nocardioopsis* sp. AHA2 synthesized

- silver nanoparticles against microbial pathogens. **Razi Journal of Medical Sciences**. 23(147), 74-81
77. Hamidreza Kheiri, **Ali Sharafi**, Hossein Danafar, Mirjamal Hosseini, Ali Ramazani, Mohammad Ghasemi (2016) Poly (caprolactone)-Poly (ethylene glycol) - Poly (caprolactone) (PCL-PEG-PCL) Nanoparticles: A Valuable and Efficient System for *in vitro* and *in-vivo* Delivery of Curcumin. **RSC Advances**. 6: 14403-14415
 78. Hossein Danafar, **Ali Sharafi**, Hamidreza Kheiri, Sina Andalib (2016) Sulforaphane delivery using mPEG- PCL co-polymer nanoparticles to breast cancer cells. **Pharm Dev Technol**. DOI:10.3109/10837450.2016.1146296
 79. Mehrgan Jabari, Soheila Matroodi, Hossein Zolgharnein, **Ali Sharafi***, Ishagh Zamani (2016) Screening, isolation and study of antifungal activity of marine *Actinomyces* from Deylam nearshore sediments. **Iranian Journal of Medical Microbiology**. 9 (4), 87-94
 80. Hooman Mirzaee, **Ali Sharafi***, Haleh Hashemi Sohi (2016) *In vitro* regeneration and transient expression of sesquiterpene cyclase (SQC) in *Artemisia annua* L. **South African Journal of Botany**. 104: 225-231
 81. Ata Allah Sharafi, Asad Asadi Abkenar, **Ali Sharafi***, Mohammad Masaeli (2016) Genetic variation assessment of acid lime accessions collected from south of Iran using SSR and ISSR molecular markers. **Physiology and Molecular Biology**. 22(1):87-95.
 82. Ghanbar, T; Hosseini, B; Jabbarzadeh, Z; Farokhzad, **Ali Sharafi** (2016) High-frequency *in vitro* direct shoots regeneration from axillary nodal and shoot tip explants of clary sage (*Salvia sclarea* L.). **Bulgarian Journal of Agricultural Science**. 22(1):73-78
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2. Ata Sharafi, **Ali Sharafi*** (2018) Tissue culture, *in vitro* organogenesis and genetic transformation of *Artemisia aucheri* Boiss. **IX International Scientific Conference Regulation of Plant Growth, Development and Production. Minsk, Belarus**
3. Hamidreza Kheiri, **Ali Sharafi*** (2018) *In vitro* regeneration of medicinal plant *Artemisia sieberi* Besser. **IX International Scientific Conference Regulation of Plant Growth, Development and Production. Minsk, Belarus**
4. Mahmoud Garbavi, Zahra Gharari, **Ali Sharafi** (2018) A novel microemulsion hybrid of medicinal plant *Sesamum indicum* oil and BSA nanoparticles. **Integrative Plant Biology IPG PAS Conference, Poznan, Poland**
5. Zahra Gharari, **Ali Sharafi** (2018) The use of thidiazuron for the efficient *in vitro* regeneration of *Scutellaria bornmuelleri*. **Integrative Plant Biology IPG PAS Conference, Poznan, Poland**
6. Samaneh Rahamouz, **Ali Sharafi**, Zahra Gharari, (2018) Tissue culture and *in vitro* regeneration of *Plantago lanceolata*. **Integrative Plant Biology IPG PAS Conference, Poznan, Poland**
7. Ata Sharafi, Hamidreza Kheiri, **Ali Sharafi*** (2018) Genetically transformed root induction and shoot organogenesis of *Dracocephalum kotschyi*, **IX International Scientific Agrosym Symposium. Jahorina, Bosnia and Herzegovina.**
8. Zahra Gharari, **Ali Sharafi***, Khadijeh Bagheri, Alireza Yazdinejad (2018) Analysis of the Chemical Composition of the Essential Oil of *Scutellaria bornmuelleri* using GC-MS. **XI International Conference The Biology of Plant Cells *in vitro* and Biotechnology, Minsk, Belarus**
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10. Ata Sharafi, **Ali Sharafi*** (2018) Metabolic engineering of morphinan alkaloids in transgenic cultures of *Papaver bracteatum*. **XI International Conference The Biology of Plant Cells *in Vitro* and Biotechnology, Minsk, Republic of Belarus**
11. Ata Sharafi, **Ali Sharafi*** (2018) Genetically transformed root induction and shoot organogenesis of *Dracocephalum kotschyi*. **XI International Conference**

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13. Samaneh Rahamouz, Khadijeh Bagheri, **Ali Sharafi (2018)** Tissue culture invitro regeneration of Plantago major. **1th International Congress and the 2nd National Conference on Biotechnology of Medicinal Plants and Mushrooms. Zanjan, Iran**
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15. Soroush Bijani, **Ali Sharafi***, Hossein Danafar, Mir-Jamal Hosseini **(2018)** Evaluation of Apigenin compound in three varieties of *Cosmos bipinnatus* by a simple and sensitive HPLC method. **South Asian Biotechnology Conference. ICGEB-NASSL. Colombo, Sri Lanka**
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17. Mahroo Ahmari, **Ali Sharafi**, Mir-Jamal Hosseini **(2018)** Effect of selegiline on the hippocampal ischemia-reperfusion injuries and cognitive impairments following global ischemia in male rats. **Pharmacy Updates. Tehran, Iran**
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19. **Ali Sharafi***, Malekinjad, Samaneh Rahamouz, Amir Meimandipour **(2017)** Antibacterial effect of *Pfaffia paniculata* against some pathogenic bacteria. **25th Annual Conference “Modern Aspects of Biochemistry and Biotechnology, Palladin Institute of Biochemistry, Kyiv, Ukrain; Ukr. Biochem. J., 2017, Vol. 89, N 3. ISSN 2409-4943.**
20. Hamidreza Kheiri Manjili, **Ali Sharafi**, Hossein Danafar **(2017)** Preparation, characterization, pharmacokinetic studies, *in vitro* and *in vivo* delivery of artemisinin loaded PCL-PEG-PCL micelles. **25th Annual Conference “Modern Aspects of Biochemistry and Biotechnology, Palladin Institute of Biochemistry, Kyiv, Ukrain; Ukr. Biochem. J., 2017, Vol. 89, N 3. ISSN 2409-4943.**

21. Samaneh Rahamouz, Khadijeh Bagheri, **Ali Sharafi***, Hossein Danafar (2017) Direct Organogenesis and in Vitro Regeneration of Medicinal Plant *Plantago lanceolata*. **25th Annual Conference “Modern Aspects of Biochemistry and Biotechnology, Palladin Institute of Biochemistry, Kyiv, Ukrain; Ukr. Biochem. J., 2017, Vol. 89, N 3. ISSN 2409-4943.**
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23. Zahra Gharari, **Ali Sharafi (2017)** A reliable protocol for surface sterilization of three *Scutellaria* species for *in vitro* culture and callus induction; **2th International and 10th National Biotechnology Congress of Iran; Tehran, Iran**
24. Samaneh Rahamooz, **Ali sharafi (2017)** Effect of 2ip on In Vitro Regeneration of Medicinal Plant *Plantago lanceolata*; **2th International and 10th National Biotechnology Congress of Iran. Tehran, Iran**
25. Samaneh Rahamooz, **Ali sharafi (2017)** Antibacterial effect of Euphorbia esula extraction against gram positive and negative bacteria; **2th International and 10th National Biotechnology Congress of Iran. Tehran, Iran**
26. Mina Beigmohammadi, Elmira Mohammadi, **Ali Sharafi***, Khadijeh Bagheri, Ali Movafeghi, Samineh Jafari, Hossein Danafar. (2016) Production of Pharmaceutical Active Compounds, Artemisinin and Plumbagin in Genetically Engineered Culture of *Artemisia sieberi* and *Plumbago europaea*. **ICGEB-Bio-Sciences of Africa (BecA) -Queensland University of Technology, Manitoba Agri-Health Researches Network. Workshop “Bridging the Gap between Agriculture and Human Health” Cape Town, South Africa**
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29. Negin Beizaeae, Farnoush Berahmand, Maryam Dehghan, **Ali Sharafi*** (2016) Cellular engineering of *Cannabis sativa* L. with *rol* genes via *Agrobacterium rhizogenes* mediated transformation. **3rd International Symposium Young Researchers in Bio-Sciences. Cluj- Napoca, Romania**
30. Hamidreza Kheiri, **Ali Sharafi (2016)** Preparation and evaluation of anti-plasmodium properties PCL-PEG-PCL nanoparticles loaded with Artemisinin.

3rd International Symposium Young Researchers in Bio-Sciences. Cluj-Napoca, Romania

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34. Mehregan Jabari, Soheila Matroodi, **Ali Sharafi**, Isaa Zamani (2015) Screening, isolation and study of marine *Actinomycets* from Deylam near shore sediments. **1th International and 9th National Biotechnology Congress of Iran. Tehran, Iran**
35. Belal Dehghani, Sadegh Hasannia, Amir Mousavi, Ali Salmanian, **Ali Sharafi** (2015) Induction of hairy roots in Tobacco and Canola to expression of Recombinant Bone Morphogenetic Protein-2. **1th International and 9th National Biotechnology Congress of Iran. Tehran, Iran**
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39. Fereshte Moharrami, Bahman Hosseini, **Ali Sharafi** (2015) Effect of yeast extract on Tropane Alkaloids production in hairy roots culture of *Hyoscyamus reticulatus* L. **1th International and 9th National Biotechnology Congress of Iran. Tehran, Iran**

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41. Mehdi Jaber, Pejman Azadi, Behzad Ghareyazi, **Ali Sharafi (2015)** Successful plant regeneration in *Cosmos bipinnatus*, a recalcitrant plant. **6th International Symposium on Production and Establishment of Micropropagated Plants. Sanremo, Italy**
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43. Elmira Mohammadi, **Ali Sharafi (2015)** Induction of genetically transformed root in medicinal plant of *Artemisia sieberi*. **1th International and 9th National Biotechnology Congress of Iran. Tehran, Iran**
44. Elmira Mohammadi, **Ali Sharafi (2015)** *In vitro* direct regeneration of anti-malarial plant *Artemisia sieberi*. **1th International and 9th National Biotechnology Congress of Iran. Tehran, Iran**
45. Fereshthe Moharrami, Bahman Hosseini*, **Ali Sharafi (2015)** Effect of iron oxide nanoparticles on hyoscyamine and scopolamine production rate in hairy root cultures of *Hyoscyamus reticulatus*. **4th National Congress on Medicinal Plants, Tehran, Iran**
46. Payam Ebadi, Alireza Ahmadnia, **Ali Sharafi* (2015)** Transient gene Expression: new approach for plant derived biopharmaceuticals. **The first Scientific Conference of Zanjan School of Pharmacy. Zanjan, Iran**
47. Alireza Ahmadnia, **Ali Sharafi* (2015)** Plant based platform for pharmaceutical recombinant protein production. **The first Scientific Conference of Zanjan School of Pharmacy. Zanjan, Iran**
48. Payam Ebadi, **Ali Sharafi* (2015)** High frequency of *Artemisia biennis* genetic transformation *via Agrobacterium rhizogenes*. **The first Scientific Conference of Zanjan School of Pharmacy. Zanjan, Iran**
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51. Mehdi Jaberi, **Ali Sharafi***, Pejman Azadi, Behzad Gharehyazi (2014) Plant tissue culture platform for producing apigenin in *Cosmos bipinnatus*. **4th International Symposium on Molecular Technology (Biotechnology in Progress), Drug Development and Therapeutics, Tehran, Iran**
52. Mahsa Mohammadi, **Ali Sharafi*** (2014) Study of the antioxidant and antibacterial activities of methanol, dichloromethane, and hexane extracts of aerial parts of *Cyprus longos*. **4th International Symposium on Molecular Technology (Biotechnology in Progress), Drug Development and Therapeutics, Tehran, Iran**
53. Amir Meimandipour, **Ali sharafi***, Abdullah Hosseini, Ata Sharafi (2014) Effect of nano-encapsulated herbal essential oils on performance in broiler chicken. **3th Medicinal Plant Congress. Mashhad, Iran**
54. **Ali Sharafi***, Amir Meimandipour, Amir Mousavi, Ata Sharafi (2014) Sodium alginate nanoparticle encapsulation method for production of artificial seeds from *Artemisia aucheri* genetically modified roots. **3th Medicinal Plant Congress. Mashhad, Iran**
55. **Ali Sharafi***, Haleh Hashemi Sohi, Amir Mousavi, Pejman Azadi (2013) Plant regeneration of medicinal plant *Dracocephalum kotschyi* after hairy root induction. **8th Iranian Biotechnology Congress. Tehran, Iran**
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58. Sepideh Valimehr, **Ali Sharafi***, Haleh Hashemi Sohi (2012) Macro elements in co-cultivation medium effects on efficiency of transformation of *Nepeta pogonosperma* with *rol* genes. **The 17th National & 5th international Iranian Biology Conference. Kerman, Iran**
59. Sepideh Valimehr, Forough Sajarian, Haleh Hashemi sohi, **Ali Sharafi*** (2012) Influence of different strains of *Agrobacterium rhizogenes* on hairy root induction of *Nepeta pogonosperma*. **Iranian Journal of Pharmaceutical Research. 11: 12-19**
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61. Ata Salami, Bahman Hosseini, **Ali Sharafi** (2012) Influence of growth regulators on callus induction in Iranian poppy (*Papaver bracteatum*). **Medicinal Plant Congress. Kish, Iran**

62. **Ali Sharafi***, Haleh Hashemi Sohi (2011) The effect of different *A. rhizogenes* on hairy root induction of *Catharanthus roseus*. **Medicinal Plant Congress. Sari, Iran**
63. **Ali Sharafi***, Haleh Hashemi Sohi (2011) Tissue culture and somatic embryogenesis of *Nepeta pogonosperma*. **Medicinal Plant Congress. Sari, Iran**
64. Akbar Hooshmand, **Ali Sharafi*** (2008) Evaluation of Pdtc for removing Ni from human serum transferrin *in vitro*. **2nd International Conference of Biotechnology. Tehran, Iran**
65. **Ali Sharafi***, Haleh Hashemi Sohi (2007) Study of shoot and root induction resistance to kanamycin in three species of *Artemisia*. **The 2nd International Congress of Biochemistry and Molecular Biology. Shiraz, Iran**
66. **Ali Sharafi***, Haleh Hashemi Sohi (2007) Tissue culture, regeneration and transformation study of *Artemisia sieberi* via *Agrobacterium tumefaciens*. **The 2nd International Congress of Biochemistry and Molecular Biology. Shiraz, Iran**
67. **Ali Sharafi***, Haleh Hashemi Sohi (2007) The use of oil crop in molecular farming. **The First Symposium of Oil Crop, Sari, Iran**
68. **Ali Sharafi***, Haleh Hashemi Sohi (2007) Production of therapeutic proteins using plant viral vectors expression systems. **The First Symposium of Microbiology. Lahijan, Iran**
69. **Ali Sharafi***, Haleh Hashemi Sohi, Pejman Azadi (2007) Effect of picloram and dicamba on somatic embryogenesis of *Artemisia aucheri*. **The 5th Iranian Biotechnology Congress. Tehran, Iran**
70. **Ali Sharafi***, Haleh Hashemi Sohi (2007) The effect of kanamycine on regeneration of *A. annua*, *A. sieberi* and *A. aucheri*. **The 5th Iranian Biotechnology Congress. Tehran, Iran**
71. Pejman Azadi, **Ali Sharafi** (2006) The Applications of nanotechnology on new agriculture. **Nanotechnology Congress. Tehran, Iran**
72. **Ali Sharafi**, Haleh Hashemi Sohi, Estefan Schilberg (2006) Expression of growth hormone in semi desert plant *Artemisia sieberi*. **The 11th IAPTC&B Congress of Biotechnology. Beijing, China**
73. **Ali Sharafi***, Haleh Hashemi Sohi (2006) Advance in *Artemisia annua* biotechnology **The 10th Iranian Pharmaceutical Sciences Conferences (IPSC). Tehran, Iran**
74. **Ali Sharafi***, Haleh Hashemi Sohi (2006) Tissue culture and regeneration of *Artemisia annua*. **The 10th Iranian Pharmaceutical Sciences Conferences (IPSC). Tehran, Iran**

75. **Ali Sharafi***, Haleh Hashemi Sohi (2006) Induction of hairy root in *Artemisia annua* via *Agrobacterium rhizogenes*. **The 10th Iranian Pharmaceutical Sciences Conferences (IPSC). Tehran, Iran**
76. **Ali Sharafi***, Haleh Hashemi Sohi (2006) Study of tissue culture and regeneration of *Artemisia sieberi*. **The 10th Iranian Pharmaceutical Sciences Conferences (IPSC). Tehran, Iran**
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FINDINGS

- Sesquiterpene Cyclase (SQC) Gene, NCBI GenBank: ABX09997.1
 - Sesquiterpene Cyclase (SQC) Protein, NCBI GenBank: ABX09997.1
 - Nocardiosis sp. AHA2 16S ribosomal RNA gene, NCBI GenBank: KT890274.1
 - Streptomyces sp. AHA1 16S ribosomal RNA gene, NCBI GenBank: KT890273.1
 - Streptomyces sp. AHA3 16S ribosomal RNA gene, NCBI GenBank: KT890275.1
 - Streptomyces sp. AHA4 16S ribosomal RNA gene, NCBI GenBank: KT890276.1
 - Streptomyces sp. AHA5 16S ribosomal RNA gene, NCBI GenBank: KT890277.1
 - Streptomyces sp. AHA6 16S ribosomal RNA gene, NCBI GenBank: KT890278.1
 - Streptomyces sp. AHA7 16S ribosomal RNA gene, NCBI GenBank: KT890279.1
 - GenBank: SUB1189583 AMJ1 KU174208
 - GenBank: SUB1189583 AMJ2 KU174209
 - GenBank: SUB1189583 AMJ3 KU174210
 - GenBank: SUB1189583 AMJ4 KU174211
 - GenBank: SUB1189583 AMJ5 KU174212
 - GenBank: SUB1189583 AMJ6 KU174213
 - GenBank: SUB1189583 AMJ7 KU174214
 - GenBank: SUB1189583 AMJ8 KU174215
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WORKSHOPS AND COURSES

- Image Processing and Analysis Using ImageJ (2017) **Palladin Institute of Biochemistry, NASU, Kyiv, Ukraine**
- Primary Cell Culture (Organized by Dr. TETYANA FOROSTYAN from School of Medicine, University of Utah, USA) (2017) **Palladin Institute of Biochemistry, NASU, Kyiv, Ukraine**
- Bridging the Gap between Agriculture and Human Health (2016) **ICGEB-Bio-Sciences of Africa (BecA) -Queensland University of Technology, Manitoba Agri-Health Researches Network. Cape Town, South Africa**
- Modern Biotechnological Advances for Human Health (2014) **National Institute of R&D for Biological Sciences, , Bucharest, Romania**

- Flow Cytometry and its Application in Clinical Diagnosis **(2014) Genomics Research Center & Blood and Marrow Transplantation Group (GRS&BMTG). Tehran, Iran**
- miRNA, shRNA and siRNA **(2014) Genomics Research Center. Tehran, Iran**
- Next Generation Sequencing **(2014) Genomics Research Center. Tehran, Iran**
- Stem Cell Cultivation **(2014) Blood and Marrow Transplantation Group. Tehran, Iran**
- Hematopoietic Stem Cell Mobilization **(2014) Blood and Marrow Transplantation Group. Tehran, Iran**
- Real Time PCR **(2014) Genomics Research Center. Tehran, Iran**
- 1st Human Y Chromosome Proteome Project Workshop **(2014) Royan Institute, Tehran, Iran**
- Contribution in Theoretical and Practical Workshop on Gene Cloning and Genetic Engineering **(2014) NIGEB, Tehran, Iran**
- Contribution in Theoretical and Practical Workshop on Plant Tissue Culture **(2014) NIGEB, Tehran, Iran**
- Contribution in Theoretical and Practical Workshop on PCR Principle and Applications **(2014) NIGEB, Tehran, Iran**
- ICGEB 2nd Post-EURASNET Workshop “RNA Alternative Splicing” **(2013) International Centre for Genetic Engineering and Biotechnology (ICGEB), Trieste, Italy**
- SOP Writing, Validation & Business Negotiations and Communication **(2013) NIGEB, Tehran, Iran**
- Contribution in Theoretical and Practical Workshop on Gene Silencing (RNAi) **(2013) NIGEB & NGene. Biotech. Co., Tehran, Iran**
- Contribution in Theoretical and Practical Workshop on Genetic Engineering of Medicinal Plants for Enhancement of Secondary Metabolites **(2013) NIGEB. Tehran, Iran**
- Bioinformatics Methods in Gene Cloning **(2013) NIGEB & NGene. Biotech. Co., Tehran, Iran**
- Illumina Next Generation Sequencing for Microbial Genetics: from Meta-Genomics to Outbreak Profiling **(2012) Karolinska Institute, Stockholm, Sweden**

- Advance in Genome Science: Using New Technology to Study Genetics Of Disease (2012) **Science for Life Laboratory (SciLifeLab), Stockholm, Sweden**
 - Genomics course (2012) **Royal Institute of Technology (KTH), Stockholm, Sweden**
 - Instructor to the Workshop on the Trade & Transfer of Intellectual Property in the Biotechnology Industry (2009) **EmTec. Company (Sweden) & NIGEB. Iran**
 - Instructor to the Workshop on GMO Detection (2008) **International Centre for Genetic Engineering and Biotechnology, (ICGEB). Trieste, Italy**
 - Contribution in Theoretical and Practical Workshop on "Application of *Agrobacterium rhizogenes* and Hairy Root Cultures in Genetic Engineering & Biotechnology in Medicinal Plants" (2007) **NIGEB. Tehran, Iran**
 - Contribution in Theoretical and Practical Workshop on "Application of Genetic Engineering & Biotechnology in Medicinal Plants" (2006) **NIGEB. Tehran. Iran**
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PROFESSIONAL AFFILIATIONS

- Director of **Zanjan Pharmaceutical Biotechnology Research Center**
 - Director of **Working Group of the Internationalization of Education** the Zanjan University of Medical Sciences
 - Member of **Technology Council for Pharmaceutical Technology Development**
 - Member of **Health Technology Council** of Zanjan University of Medical Sciences
 - Member of **Zanjan Applied Pharmacology Research Center**
 - Member of **Zanjan Cancer Gene Therapy Research Center**
 - Member of **Iranian Biotechnology Society**
 - Member of **Iranian Biosafety Society**
 - Member of **Synthetic Biology Group, Biofuel Research Team**
 - Member of **European Federation of Biotechnology**, Barcelona, Spain
 - Member of **Middle East Molecular Biology Society**, Dubai, UAE
 - Member of **European Biotechnology Network**, Brussels, Belgium
 - Former member of **TEMAD Pharmaceutical Company** (It is the only manufacturer of world class quality narcotics products in the Middle East); Karaj, Iran
-