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Education

Ph.D. in Biochemistry

Institute of Biochemistry and Biophysics, University of Tehran, Tehran, Iran, 1997-2004.

Dissertation Title: Study of the effect of Daphne mucronate on metastasis progression and glycosylation of plasma membrane proteins in human cancer cells.

M.Sc. in Biochemistry

Institute of Biochemistry and Biophysics, University of Tehran, Tehran, Iran, 1995-1997.

Thesis Title: Investigation of the presence of Furocoumarins in the leaves of *Anthemis graveolens* and their effects on DNA (aqueous extract).

B.Sc. in Plant Biology

Islamic Azad University, Gorgan Branch, Gorgan, Iran, 1991-1995.

Selected Publications

Salehloo EB, Sabouni F, Mianabadi M. Inhibition of NO production in LPS-stimulated primary rat glial cells by gnidilatimonoein and extract of *Daphne mucronata*. *Iranian Journal of Biotechnology*. 2023 Apr 1;21(2):e3052.

Vakili S, Baher E, Vaezi Z, Mianabadi M, Tilami SE. In Vitro Study of the Interaction between Ochratoxin A and Human serum albumin by Spectroscopic and Molecular Docking methods. *Chemistry Select*. 2023 Sep 20;8(35):e202301310.

- Zargari M, Mohammadian M, Malekshah AK, Mianabadi M, Mogaddam AE, Amiri FT. Tyrosol and Olive Oil Ameliorate Sodium Arsenate-Induced Nephrotoxicity by Modulating of Oxidative Stress and Histological Changes in Mice. *International Journal of Preventive Medicine*. 2023 Apr 1;14(1):47.
- Hadi Soltanabad M, Bagherieh-Najjar MB, Mianabadi M. Carnosic acid content increased by silver nanoparticle treatment in rosemary (*Rosmarinus officinalis* L.). *Applied biochemistry and biotechnology*. 2020 Jun;191(2):482-95.
- Marzban A, Seyedalipour B, Mianabadi M, Taravati A, Hoseini SM. Biochemical, toxicological, and histopathological outcome in rat brain following treatment with NiO and NiO nanoparticles. *Biological trace element research*. 2020 Aug;196(2):528-536.
- Khedrinia M, Aryapour H, Mianabadi M. Prediction of novel inhibitors for *Crotalus adamanteus* l-amino acid oxidase by repurposing FDA-approved drugs: a virtual screening and molecular dynamics simulation investigation. *Drug and Chemical Toxicology*. 2019 Sep 3;44(5):470-479.
- Hadi Soltanabad M, Bagherieh-Najjar MB, Kohan Baghkheirati E, Mianabadi M. Ag-conjugated nanoparticle biosynthesis mediated by Rosemary leaf extracts correlates with plant antioxidant activity and protein content. *International journal of nanoscience and nanotechnology*. 2018 Nov 1;14(4):319-25.sagj
- Mohammadian M, Mianabadi M, Zargari M, Karimpour A, Khalafi M, Amiri FT. Effects of olive oil supplementation on sodium arsenate-induced hepatotoxicity in mice. *International Journal of Preventive Medicine*. 2018 Jan 1;9(1):59.
- Aghdasi M, Padari EA, Mianabadi M. Trends in accumulation of ephedrine in callus cultures of *Ephedra major* Host. *In Vitro Cellular & Developmental Biology-Plant*. 2018 Aug;54(4):465-74.
- Teimoori-Boghsani Y, Bagherieh-Najjar MB, Mianabadi M. Investigation of phytochemical and antioxidant capacity of Fennel (*Foeniculum vulgare* Mill.) against gout. *Journal of Medicinal plants and By-products*. 2018 Apr 1;7(1):59-65.
- Eari S, Aghdasi M, Ahmadzadeh E, Mianabadi M. Influence of plant growth regulators on callus induction, silymarin production and antioxidant activity in milk thistle (*Silybum marianum* L. Gaertn.) under tissue culture medium. *Journal of Medicinal Plants and By-products*. 2017; 1: 59-69.

- Mashayekhi K, Mohammadi Chiane S, Mianabadi M, Ghaderifar F, Mousavizadeh SJ. Change in carbohydrate and enzymes from harvest to sprouting in garlic. *Food Science & Nutrition*. 2016 May;4(3):370-6.
- Teimori Boughsani Y., Bagherieh Najjar M.B., Mianabadi M., Azim Mohseni M. Summer savory (*Satureja hortensis*) extract inhibits xanthine oxidase. *Journal of Medicinal Plants and By-products*. 2015; 1: 25-30.
- Aghdasi M, Mofid Bojnoordi M, Mianabadi M, Nadaf M. Chemical components of the *Ephedra major* from Iran. *Natural product research*. 2016 Feb 1;30(3):369-71.
- Mianabadi M., Hoshani M., Salmanian S, Antimicrobial and Anti-oxidative Effects of Methanolic Extract of *Dorema aucheri* Boiss. *Journal of Agricultural Science and Technology*. 2015 Jul 13;17(3):623-634.
- Saghafi E, Mianabadi M, Hadadchi G. Inhibition effects of *Teucrium polium* extract on gout. *Zahedan Journal Research in Medical Sciences*. 2013; 15 (11): 24-28.
- Zamani N, Mianabadi M, Abdolzadeh A. Changes in anti-oxidant activity of *Thymus transcaspicus* (Klokov) during growth and developmental stages. *Journal of Cell and Molecular Research*. 2011; 3(1): 12-18.
- Mianabadi M, Yazdanparast R. The anti-metastatic potency of gnidilatimonoein, from *Daphne mucronata*, compared to two glycosylation inhibitors: castanospermine and tunicamycin. *DARU*. 2004;12 (1): 44-48.
- Mianabadi M, Yazdanparast R. The effect of Gnidilatimonoein from *Daphne mucronata*, on the adhesive property of human platelets. *Iranian Biomedical Journal* 2004; 8(3): 143-147.
- Mianabadi M, Yazdanparast R. Inhibition of substrate-tumor cell adhesion under the effect of gnidilatimonoein purified from *Daphne mucronata*. *The American journal of Chinese medicine*. 2004;32(03):369-76.
- Yazdanparast R, Mianabadi M. The effect of the active component of *Dendrostellera lessertii* on the adhesive property of human platelets and HL-60 cells. *Life sciences*. 2004 Jun 25;75(6):733-739. Yazdanparast R, Mianabadi M, Abdolmohammadi MH. Anti-tumor activity of *Dendrostellera lessertii* and the inhibitory effect of one of its purified diterpene ester on wehi-164 cell adhesion. *Natural Product Sciences*. 2003;9(3):161-6.

Mianabadi M., Rivera E., Yazdanparast R. A new diterpene ester from the leaves of *Daphne mucronata*. *Journal of Tropical Medicinal Plants*. 2003;4(2):233-236. Available from: <https://sid.ir/paper/558325/en>

Sadeghi, H., M. Mianabadi, and R. Yazdanparast. Effect of leaf extract of *Daphne mucronata* on plasma membrane alkaline phosphatase activity on two human cancer cell lines. *Journal of Tropical Medicinal Plants*. 2002; 3 (2): 169-173.

Mianabadi M., Sadeghi H., Yazdanparast R. Heat fragmentation pattern of DNA treated with two different Furocoumarins isolated from *Anethum Graveolens* leaves. *Acta Medica Iranica*. 2001; 209-212.

Book

Mianabadi, M., et al., (Translator). (2024) *The World of the Cell* (Vols. 1-2, Persian translation of the original single-volume book). Aeizh Publications.

Teaching Experience

Delivered undergraduate, graduate and PhD-level courses in Biochemistry (Carbohydrates & Lipids, Nucleic Acids & Proteins, Hormones), Advanced Biochemistry, Cell Biochemistry, Cellular & Molecular Biology, Plant Biochemistry, Secondary Plant Metabolites. Supervised laboratory courses including Biochemistry (Structure and Metabolism), Cell and Molecular Biology.

Academic Supervision

Supervised Masters students in Biochemistry and Plant Biology, guiding their research projects from proposal to thesis completion.