



Curriculum vitae

Mohsen Hemmati-Dinarvand, PhD.

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***Date of birth & place:** March 17th, 1989, Lorestan/Iran*

***Nationality:** Iranian*

***Marital status:** Unmarried*

***Professional Address:** Department of Biochemistry, Medical School, Kashan
University of Medical Sciences, Kashan, Iran*

EDUCATION

Shiraz University of Medical Sciences

Philosophy Doctorate (PhD) in Clinical Biochemistry (Sep 2018- March 2022)

Thesis: *The Evaluation of Nitazoxanide Effect on Drug Resistance Reduction in Oxaliplatin-Resistant LS174T Colorectal Cancer.*

First Supervisor: *Dr. Atefeh Seghatoleslam*

Second Supervisor: *Dr, Hassan Ahmadvand*

Advisor (s): *Dr. Fakhraddin Naghibalhossaini & Dr. Zohreh Mostafavi-pour*

Tabriz University of Medical Sciences

Master of Science (M.Sc.) in Clinical Biochemistry (Sep 2015-Dec 2017)

Thesis: *The study of NOX1, selenium and uric acid concentrations in the serum of patients with Parkinson disease.*

Supervisor: *Dr. Nasser Samadi*

Advisors: *Dr. Aliakbar Taheraghdam, Dr. Ali Mota*

Research Interests:

- *Clinical biochemistry*
- *Neurobiochemistry*
- *Cancer biology*
- *Cancer drug resistance*
- *Biochemical markers for diagnostic, identification of pharmaceutical effects in Human diseases.*
- *Molecular mechanisms involved in the development of acute and chronic Human disease.*

skills:

- *Primer design*
- *Fluorescence Microscopy- Enzyme Linked Immunosorbent Assay (ELISA)*
- *Atomic Absorption Spectrophotometry (AAS)*
- *Light Spectrophotometry*
- *RT-qPCR method*
- *Western blot method*
- *Cell culture*
- *MTT assay*
- *PCR method*

- *SPSS and graph pad prism analysis*
- *Academic article writing*

Short Courses & Workshops

- *2015, Primer design workshop, Tabriz University of Medical Sciences.*
- *2015, Article Writing Workshop, Tabriz University of Medical Sciences.*
- *2016, Internet Databases training program, Physics Faculty of Tabriz University.*

Publications

- **Mohammadi M**, Fazilat A, Mamalo AS, Ojarudi M, Hemmati-Dinarvand M, Beilankouhi EA, Valilo M. *Correlation of PTEN signaling pathway and miRNA in breast cancer. Molecular Biology Reports. 2024 Dec;51(1):221.*
- Saedi S, Hemmati F, **Hemmati-Dinarvand M**. *The relationship between the stomach and the brain: investigating Helicobacter Pylori infection pathways and its association with Parkinson's disease. Biochemistry and Nutrition in Metabolic Diseases. 2024 Feb 18;1(1):48-55.*

- **Hemmati-Dinarvand M**, Mokhtari H, Alipourfard I, Beyrami Aghbash E, Kheirandish S, Khodadadian A, Seghatoleslam A. *Cancer Drug Resistance Reduction via Co-treatment with Oxaliplatin and Nitazoxanide: Targeting the ABC Transporters. Current molecular medicine. 2023 Oct 1;23(8):834-41.*
- Pakravan S, **Hemmati-Dinarvand M**, Moghaddasi M, Fathi J, Nowrouzi-Sohrabi P, Hormozi M. *Hydroxytyrosol's effect on the expression of apoptosis and oxidative stress related genes in BE (2)-C neuroblastoma cell line. Gene Reports. 2023 Jun 1;31:101750.*
- Musavi H, Abazari O, Barartabar Z, Kalaki-Jouybari F, **Hemmati-Dinarvand M**, Esmaeili P, Mahjoub S. *The benefits of Vitamin D in the COVID-19 pandemic: biochemical and immunological mechanisms. Archives of physiology and biochemistry. 2023 Mar 4;129(2):354-62.*
- Khoshdel Z, Gholijani N, Niknam M, Rahmani N, **Hemmati-Dinarvand M**, Naghibalhossaini F. *Serum Copper and Zinc levels among Iranian vitiligo patients. Dermatology practical & conceptual. 2022 Nov;12(4).*
- **Hemmati-Dinarvand M**, Kheirandish S, Khodadadian A, Mostafazadeh M, Seghatoleslam A. *Blockage of Wnt/ β -catenin Signaling Pathway in Colorectal Cancer Resistant Cells by Nitazoxanide Effects on Peptidylarginine Deiminases Expression. Asian Pacific journal of cancer prevention: APJCP. 2022 Sep;23(9):3215.*

- **Hemmati-Dinarvand M**, Ahmadvand H, Seghatoleslam A. Nitazoxanide and cancer drug resistance: targeting Wnt/ β -catenin signaling pathway. *Archives of Medical Research*. 2022 Apr 1;53(3):263-70.
- **Hemmati-Dinarvand M**, Malekshahi A, Afsharifar A. Employment of virus-like particles in vaccines production. *Yafteh*. 2022;23(5).
- Hemmati F, **Hemmati-Dinarvand M**, Karimzade M, Rutkowska D, Eskandari MH, Khanizadeh S, Afsharifar A. Plant-derived VLP: a worthy platform to produce vaccine against SARS-CoV-2. *Biotechnology Letters*. 2022 Jan 1:1-3.
- Saedi S, **Hemmati-Dinarvand M**, Barmaki H, Mokhtari Z, Musavi H, Valilo M, Mota A, Mahjoub S. Serum lipid profile of Parkinson's disease patients: A study from the Northwest of Iran. *Caspian journal of internal medicine*. 2021 Mar;12(2):155.
- Barmaki H, Morovati A, Eydivandi Z, Naleshkenani FJ, Saedi S, Musavi H, Abbasi M, **Hemmati-Dinarvand M**. The association between serum oxidative stress indexes and pathogenesis of Parkinson's disease in the northwest of Iran. *Iranian journal of public health*. 2021 Mar;50(3):606.
- Khodadadian A, Varghaiyan Y, Babakhanzadeh E, Alipourfard I, Haghi-Daredeh S, Ghobadi A, **Hemmati-Dinarvand M**, Talebi M, Ghasemi N. Fertility preservation in women with ovarian cancer: Finding new pathways: A case-control study. *International Journal of Reproductive BioMedicine*. 2021 Feb;19(2):157.

- Fattah A, Amiri F, Mohammadian M, Alipourfard I, Valilo M, Taheraghdam A, **Hemmati-Dinarvand M**. Dysregulation of body antioxidant content is related to initiation and progression of Parkinson's disease. *Neuroscience Letters*. 2020 Sep 25;736:135297.
- Hemmati F, Saedi S, **Hemmati-Dinarvand M**, Zarei M, Seghatoleslam A. Mysterious virus: a review on behavior and treatment approaches of the novel coronavirus, 2019-nCoV. *Archives of Medical Research*. 2020 Jul 1;51(5):375-83.
- Alizadeh-Sani M, Rhim JW, Azizi-Lalabadi M, **Hemmati-Dinarvand M**, Ehsani A. Preparation and characterization of functional sodium caseinate/guar gum/TiO₂/cumin essential oil composite film. *International journal of biological macromolecules*. 2020 Feb 15;145:835-44.
- Ghavami A, Roshanravan N, Nattagh-Eshtivani E, Sharifi S, Arzhang P, Sani MA, **Dinarvand MH**, Shokri A, Ostadrahimi A. The effect of high performance inulin on appetite, energy in-take and anthropometric indices in patient with type 2 diabetes. *Progr. Nutr.*. 2019 Dec 1;21:121-6.
- **Hemmati-Dinarvand M**, Valilo M, Kalantary-Charvadeh A, Sani MA, Kargar R, Safari H, Samadi N. Oxidative stress and Parkinson's disease: conflict of oxidant-antioxidant systems. *Neuroscience Letters*. 2019 Sep 14;709:134296.
- Mota A, **Hemati-Dinarvand M**, Taheraghdam AA, Nejabat HR, Ahmadi R, Ghasemnejad T, Hasanpour M, Valilo M. Association of Paraoxonase I (PON1)

Genotypes with the Activity of PON1 in Patients with Parkinson's Disease.

Acta Neurol Taiwan. 2019 Sep 1;28(3):66-74.

- *Kalantary-Charvadeh A, Sanajou D, **Hemmati-Dinarvand M**, Marandi Y, Khojastehfard M, Hajipour H, Mesgari-Abbasi M, Roshangar L, Nazari Soltan Ahmad S. Micheliolide protects against doxorubicin-induced cardiotoxicity in mice by regulating PI3K/Akt/NF-kB signaling pathway. *Cardiovascular toxicology. 2019 Aug 15;19:297-305.**
- ***Hemmati-Dinarvand M**, Niknam M, Zununi Vahed S, Samadi N. Serum uric acid and albumin are affected by different variables in Parkinson's disease. *Neurological Sciences. 2019 Jan;40:187-8.**
- ***Hemmati-Dinarvand M**, Taheraghdam A, Mota A, Vahed SZ, Samadi N. In response to a letter to Editor by Vivek Kumar Garg., et al. on our paper: "Dysregulation of serum NADPH oxidase1 and ferritin levels provides insights into diagnosis of Parkinson's disease". *Hemmati-Dinarvand, M., et al. 2017; 50 (18): 1087-1092. Clinical biochemistry. 2018 Jun;56:118-9.**
- *Khodadadian A, **Hemmati-Dinarvand M**, Kalantary-Charvadeh A, Ghobadi A, Mazaheri M. Candidate biomarkers for Parkinson's disease. *Biomedicine & Pharmacotherapy. 2018;104:699-704.**
- ***Hemmati-Dinarvand M**, Taheraghdam A, Mota A, Vahed SZ, Samadi N. In response to letter to Editor by Vivek Kumar Garg., et al. on our paper: "Dysregulation of serum NADPH oxidase1 and ferritin levels provides insights*

into diagnosis of Parkinson's disease". Hemmati-Dinarvand, M., et al. 2017; 50 (18):1087-1092. Clin Biochem. 2018 Apr 24. pii: S0009-9120(18)30390-4. doi: 10.1016/j.clinbiochem.2018.04.023. [Epub ahead of print].

- ***Hemmati-Dinarvand, M., et al., Dysregulation of serum NADPH oxidase1 and ferritin levels provides insights into diagnosis of Parkinson's disease. Clinical biochemistry, 2017. 50(18): p. 1087-1092.***

Conferences

- ***Poster presentation in 6th basic and clinical neuroscience Congress Iran University of Medical Sciences, Tehran, Iran.***
- ***Poster presentation in 2nd International and 10th National Iranian Neurogenetic Congress Mashhad University of Medical Sciences, Mashhad, Iran.***
- ***Poster presentation in 2nd International and 10th National Iranian Neurogenetic Congress Mashhad University of Medical Sciences, Mashhad, Iran.***

Awards

- ***1st rank of the 10th Kharazmi Youth Festival in the story of writing (2009).***
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