

Alireza Tavakkoli

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Education

Sep 2017 – Nov 2023	Ph.D. in Pharmacognosy – GPA: 18.59/20 Department of Pharmacognosy, School of Pharmacy Mashhad University of Medical Sciences, Mashhad, Iran
Apr 2022 – Oct 2022	Visiting Scholar Department of Pharmaceutical Sciences, College of Pharmacy University of Kentucky, Lexington, KY, USA
Sep 2012- Sep 2017	Pharm.D. (Doctor of Pharmacy) - GPA: 17.70/20 School of Pharmacy Mashhad University of Medical Sciences, Mashhad, Iran

Awards and Honors

Iranian University Entrance Exam (Konkour) in Natural Sciences: National rank 585 (among ~ ۴۰۰,۰۰۰ students) – Jul ۲۰۱۲

Iran National Basic Sciences Exam for Pharmacy Students: 3rd rank in university and 16th national rank (top national 2.5%) – Sep 2014

Member of Exceptional Talents Students Organization in Mashhad University of Medical Sciences – From Sep 2014

Professional experiences

Sep 2017 - Apr 2022	Pharmacist, Dr. Sheikh Hospital Clinic Pharmacy, Mashhad, Iran
Sep 2017 - Nov 2023	Research Assistant, Mashhad University of Medical Sciences, Iran
Aug 2018 – Nov 2023	Teaching Assistant, Mashhad University of Medical Sciences, Iran
Mar 2021 – Nov 2021	Director of Scientific Affairs – 23 rd Iranian Pharmacy Students Seminar
Apr 2022 – Oct 2022	Visiting Researcher, University of Kentucky, Lexington, KY, USA

Workshops

- ۱- Short-term course "Computational drug design". Iran Virtual University of Medical Sciences. Feb 2021
- ۲- Theory & practical workshop on High Performance Thin Layer Chromatography (HPTLC), Reference research laboratory, Mashhad University of Medical Sciences. Aug 2019
- ۳- Workshop on Real Time PCR, Institute of Pharmaceutical Technology, Mashhad University of Medical Sciences. 27 Feb 2019
- ۴- The Autumn School on Clinical Pharmacy, Faculty of Pharmacy, Tehran University of Medical Sciences. 23 Nov 2016

Professional memberships

۱۰ Apr ۲۰۱۸ - date	Islamic Republic of Iran Medical Council (IRI M.C.)
۱ Aug ۲۰۱۸ - date	The Iranian Society of Pharmacognosy
۲۷ Jun ۲۰۲۰ - date	The American Society of Pharmacognosy
۱۴ Feb ۲۰۲۲ - date	The American Society for Microbiology
۷ Jan ۲۰۲۲ - date	Society for Medicinal Plant and Natural Product Research (GA)

Articles

- ۱- Tavakkoli, A., A. Ahmadi, B.M. Razavi, and H. Hosseinzadeh, Black seed (*Nigella sativa*) and its constituent thymoquinone as an antidote or a protective agent against natural or chemical toxicities. Iranian Journal of Pharmaceutical Research, 2017. 16: p. 2-۲۳.
- ۲- Tavakkoli, A., V. Mahdian, B.M. Razavi, and H. Hosseinzadeh, Review on clinical trials of black seed (*Nigella sativa*) and its active constituent, thymoquinone. Journal of Pharmacopuncture, 2017. 20(3): p. 179-193.
- ۳- Tavakkoli, A., M. Iranshahi, S.H. Hasheminezhad, A.W. Hayes, and G. Karimi, The neuroprotective activities of natural products through the Nrf2 upregulation. Phytotherapy Research, 2019. 33(9): p. 2256-2273.

- ϕ- Tavakkoli, A., K. Abnous, F. Vahdati Hassani, H. Hosseinzadeh, R. Birner-Gruenberger, and S. Mehri, Alteration of protein profile in cerebral cortex of rats exposed to bisphenol a: a proteomics study. *NeuroToxicology*, 2020. 78: p. 1-10.
- Δ- Tavakkoli, A., T.P. Johnston, and A. Sahebkar, Antifungal effects of statins. *Pharmacology and Therapeutics*, 2020. 208: 107483.
- ϕ- Jafarian-Haris, T., A. Tavakkoli, M. J. Najafzadeh, and A. Danesh, Characterization and Optimization of L-Malic Acid Production by Some Clinical Isolates of *Aureobasidium pullulans*. *Research in Molecular Medicine*, 2020, 8(4): p. 209-214.
- Υ- Tavakkoli, A., T. P. Johnston and A. Sahebkar, Fluvastatin: A Choice for COVID-19-ASSOCIATED Mucormycosis Management. *Current Medicinal Chemistry*, 2023, E-pub Ahead of Print.
- Λ- Tavakkoli, A., J. Asili, V. Soheili, M. Iranshahy, M. Saiar, M. J. Najafzadeh and M. Iranshahi, GC/MS profiling of the essential oils from *Ferula xylorhachis* Rech.f. roots and aerial parts and assaying their antimicrobial activity against human skin pathogens. *Journal of Essential Oil Bearing Plants*, 2023, 26 (5): p. 1236-1244.
- ϑ- Babaei, F., M. Mirzababaei, A. Tavakkoli, M. Nassiri-Asl and H. Hosseinzadeh, Can nonsteroidal anti-inflammatory drugs (NSAIDs) be repurposed for fungal infection?. *Naunyn-Schmiedeberg's Archives of Pharmacology*, 2024, 397 (1): p. 59-75.

Presentations

- ϑ- Tavakkoli, A., F. Vahdati Hassani, S. Mehri, and K. Abnous, P^εΛ: Protein Changes Resulted in Sub-Chronic Neurotoxicity of Bisphenol A in Rat Brain, in 2nd International Neuroinflammation Congress and 2nd Student Festival of Neuroscience. 2018: Mashhad, Iran.

Book Chapters

- ϑ- Tavakkoli, A. and H. Hosseinzadeh, *Nigella sativa* L. and thymoquinone as neuroprotective antioxidants, in *Oxidative Stress and Dietary Antioxidants in Neurological Diseases*, C.R. Martin and P.V. R., Editors. 2020, Academic Press: London, UK. p. 325-342.

Relevant Skills

Spectroscopy techniques including Nuclear Magnetic Resonance (NMR) and Mass Spectrometry

Chromatographic methods including CC, HPLC, HPTLC, TLC and GC

Molecular Biology methods including 2-D Proteins Gel Electrophoresis, Western Blot, PCR, RT-PCR, DNA Alignment and BLAST

Fungal Endophytes isolation and identification, Fermentation of Fungal Microorganisms

Software: ChemOffice, MarvinSketch, MestReNova, Chromas, DNAMAN, Design Expert, ImageMaster 2D, GraphPad Prism, EndNote, Mendeley, Microsoft Office

Research Interests:

Natural Products, Fungal Secondary Metabolites, Antibiotics, Anti-infective Natural Product

Websites & Social Links:

[LinkedIn](#) , [ResearchGate](#) , [Google Scholar](#)

Referees:

- Prof. Mehrdad Iranshahi
School of Pharmacy, Mashhad University of Medical Sciences, Mashhad, Iran
- Prof. Mohammad Javad Najafzadeh
Faculty of Medicine, Mashhad University of Medical Sciences, Mashhad, Iran
- Prof. Jon S. Thorson
College of Pharmacy, University of Kentucky, Lexington, KY, USA