



Ailar Nakhband, Bio medicine (PhD)

Assistant professor

Research center of psychiatry and behavioral sciences

Tabriz university of Medical Sciences,

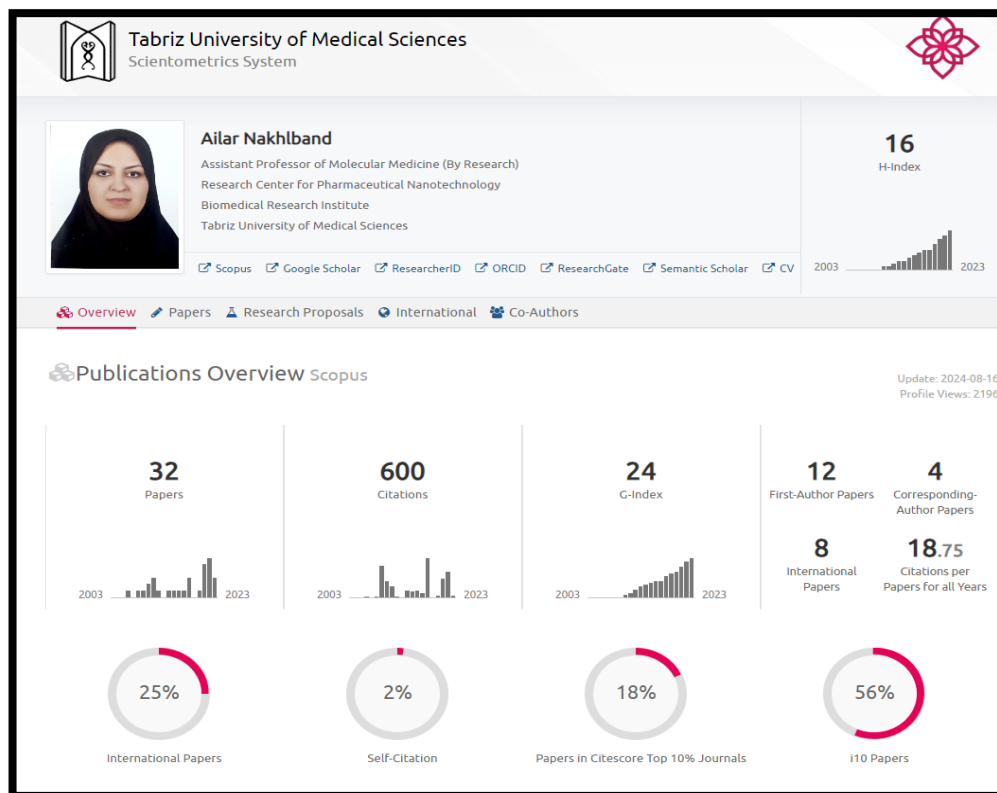
Tabriz, Iran

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### Publication overview

H-Index: 16, Research items: 32, Citation: 600

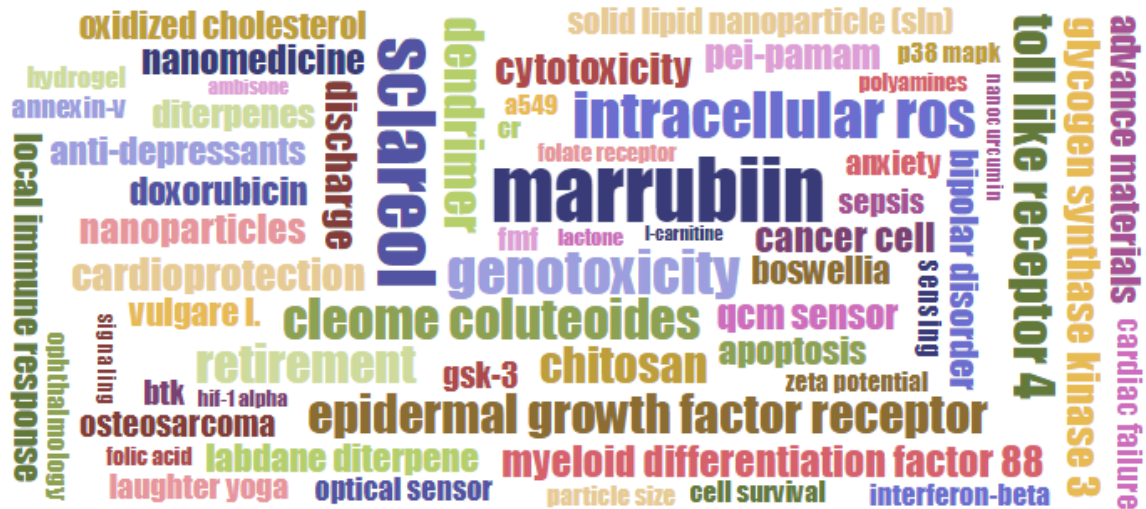


[https://isid.research.ac.ir/Ailar\\_Nakhband2](https://isid.research.ac.ir/Ailar_Nakhband2)

<https://scholar.google.com/citations?user=mIKXwrMAAAAJ&hl=en>



Research area



Educational History

1.

**Education (Academic Preparation)**

- ❖ Sep. 2013 – March 2018 PhD (Molecular Medicine), Research Center for Pharmaceutical Nanotechnology, Tabriz University of Medical Sciences,
- ❖ Sep. 2007 – Sep.2010 MSc (Cell &Molecular Biology), Faculty of Science, Razi University, Kermanshah, Iran.
- ❖ Sep. 2007 – Sep. 2009 BSc (Biology), Faculty of Science, Tabriz University, Tabriz, Iran.

**2. Thesis**

**PhD:** Marrubiin and marrubiin nanoformulation effects on oxidative stress in cardiovascular system, supervised by Dr A.Garjani and Dr J.Barar, advised by Dr Y. Omidi, Dr S.Ghaffari, Dr M.Eskandani



**MSc:** Evaluation of Epidermal Growth Factor (EGFR) antisense nanoparticles on cancerous Cell line (A549), supervised by Dr A.Bidmeshkipour and Dr J.Barar, advised by Dr Y. Omidi.

**BSc:** Diagnosis of visceral leishmaniasis by PCR and species identification of Leishmania in Iran, supervised by Dr M.A. Hoseinpoor feiz

#### Teaching and Academic Administrative experiences

- Head of Research Center Evaluation and Development Group, Dec 2021– now
- Assistant professor of Tabriz University of Medical Sciences, Jun 2020 – now
- Assistant director of Natural product and medicinal plants research center, North Khorasan University of Medical Sciences, Oct 2018, Dec 2019
- Assistant professor of North Khorasan University of Medical Sciences, Oct 2018, Dec 2019
- Teaching medical English for medicine students in medicine faculty of Tabriz University of Medical sciences. Mar.2011-now
- Research assistant in Research Center for Pharmaceutical Nanotechnology. June 2007- 2015
- Cell culture workshop, Research Center for Pharmaceutical Nanotechnology. Mar. 2011
- Cell & molecular biology for Immunology MSc students, Faculty of Medicine, Tabriz University of Medical Sciences, and Tabriz, Iran. Sept 2010- Mar 2011.
- Cell & molecular biology for Immunology MSc students, Aras Faculty of Medicine, Tabriz University of Medical Sciences, and Tabriz, Iran. Mar. 2010- June. 2010
- Cell culture workshop, Research Center for Pharmaceutical Nanotechnology. April.2010
- RNA isolation at cell culture workshop, Research Center for Pharmaceutical Nanotechnology. Mar. 2009
- English for Immunology MSc students, Faculty of Medicine, Tabriz University of Medical Sciences, and Tabriz, Iran. Mar. 2008- June. 2008



- English for faculty academic members, Faculty of Medicine, Tabriz University of Medical Sciences, Tabriz, Iran. June 2007- Sep. 2007
- English courses, Jahad daneshgahi institute, Tabriz, Iran. Sep. 2006- June. 2008
- English courses, Shokouh institute, Tabriz, Iran. Sep. 2003- June. 2008
- Manager of POL English institute, Tabriz, Iran. 2011-2014

### Skills

- Highly proficient and/or Expert in:

1. Molecular genetics: Application of the Internet-based tools, primer design, PCR, RT-PCR, Real time PCR and cell-based cloning techniques (plasmid-based methodologies), SDS PAGE.
2. Molecular and cell biology: Cell culture techniques, Stem cell culture, Tissue engineering, Flow cytometry, Western blotting, imaging techniques (Fluorescent Microscopy), transfection, RNA isolation, genomic DNA Extraction from blood, bone marrow, tissue, plasmid Extraction from bacteria, parasite and bacterial culturing, apoptosis detection assays (DNA ladder, annexin v-FITC flowcytometry), cytotoxicity assays (MTT assay, trypan blue assay), Immun histochemistry (IHC).
3. Softwares: Word, Excel, PowerPoint, Publisher, Corel Draw, END Note, Reference manage
4. Scientific writing

- New in organoids

- Foreign Language

English (proficient)

### **Certificates**

- TOEFL (570 from 673)



MCHE (67 from 100)

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Overview
Papers
Research Proposals
International
Co-Authors
Current Year Stat:  OFF

No.	Title	Authors	Journal	IF	SJR	h-index	Publisned	Cited by
11	Interferon-alpha position in combating with COVID-19: A systematic review <span style="color: red;">Review</span>		Journal of Medical Virology 93(9):5277-5284	6.8 <span style="color: green;">Q1</span>	1.56 <span style="color: green;">Q1</span>	23.2 <span style="color: green;">Q1</span>	2021	21
12	Interferon-beta offers promising avenues to COVID-19 treatment: a systematic review and meta-analysis of clinical trial studies <span style="color: red;">Review</span>		Naunyn-Schmiedeberg's Archives of Pharmacology 394(5):029-038	3.1 <span style="color: orange;">Q2</span>	0.735 <span style="color: orange;">Q2</span>	6.2 <span style="color: orange;">Q2</span>	2021	34
13	What Happens to Patients with Bipolar Disorder after Bariatric Surgery? A Review <span style="color: red;">Review</span>		Obesity Surgery 31(3):1313-1320	2.9 <span style="color: green;">Q1</span>	1.083 <span style="color: green;">Q1</span>	5.8 <span style="color: green;">Q1</span>	2021	2
14	Recent Advances in Hydrogels and Stem Cells <span style="color: red;">Book Chapter</span>		Engineering Materials for Stem Cell Regeneration pp. 589-618				2021	3
15	Antibacterial, antifungal, and antioxidant activity of cleome coluteoides: An in vitro comparative study between leaves, stems, and flowers <span style="color: red;">Original Article</span>		Turkish Journal of Pharmaceutical Sciences 10(1):10-16	1.8	0.364 <span style="color: orange;">Q2</span>	3.6 <span style="color: orange;">Q2</span>	2021	6
16	Oxidized cholesterol exacerbates toll-like receptor 4 expression and activity in the hearts of rats with myocardial infarction <span style="color: red;">Original Article</span>		Journal of Cardiovascular and Thoracic Research 12(1):43-50	1.2	0.288 <span style="color: orange;">Q3</span>	2 <span style="color: orange;">Q3</span>	2020	4
17	Preparation, characterization and anti-proliferative effects of sclareol-loaded solid lipid nanoparticles on A549 human lung epithelial cancer cells <span style="color: red;">Original Article</span>		Journal of Drug Delivery Science and Technology 45:272-280	4.5 <span style="color: green;">Q1</span>	0.719 <span style="color: green;">Q1</span>	8 <span style="color: green;">Q1</span>	2018	60
18	Marrubiin-loaded solid lipid nanoparticles' impact on TNF-alpha treated umbilical vein endothelial cells: A study for cardioprotective effect <span style="color: red;">Original Article</span>		Colloids and Surfaces B: Biointerfaces 164:299-307	5.4 <span style="color: green;">Q1</span>	0.91 <span style="color: green;">Q1</span>	11.1 <span style="color: green;">Q1</span>	2018	30
19	Combating atherosclerosis with targeted nanomedicines: Recent advances and future prospective <span style="color: red;">Original Article</span>		BiolImpacts 0(1):59-75	2.2 <span style="color: orange;">Q3</span>	0.553 <span style="color: orange;">Q2</span>	4.8 <span style="color: green;">Q1</span>	2018	51
20	Evaluation of antibacterial efficacy of photodynamic therapy vs. 2.5% NaOCl against E. faecalis-infected root canals using real-time PCR technique <span style="color: red;">Review</span>		Journal of Clinical and Experimental Dentistry 9(4):e539-e544		0.468 <span style="color: orange;">Q2</span>	2.7 <span style="color: orange;">Q2</span>	2017	15



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Current Year Stat:  OFF

## Publications

Scopus **52** PubMed **27** ISI **25** G.Scholar **56**

Search Paper Title

Document Type




From

To

21 to 30 out of 32 Paper

No.	Title	Authors	Journal	IF	SJR	CiteScore	Published	Cited By
21	Boswellia serrata gum resin aqueous extract upregulates BDNF but not CREB expression in adult male rat hippocampus <a href="#">Original Article</a>	- 4 more	Turkish Journal of Medical Sciences 46(5):1573-1578	1.2 Q3	0.458 Q3	4.6 Q1	2016	23
22	Lipopolysaccharide induced activation of toll like receptor 4 in isolated rat heart suggests a local immune response in myocardium <a href="#">Original Article</a>		Iranian Journal of Immunology 12(2):104-116	1.1 Q4	0.29 Q3	1.6 Q4	2015	20
23	Synthesis, characterization and in vitro anti-tumoral evaluation of erlotinib-PCEC nanoparticles <a href="#">Original Article</a>	- 1 more	Asian Pacific Journal of Cancer Prevention 15(23):10281-10287		0.446 Q3	2.8 Q3	2014	24
24	Erratum to: Impacts of nanomedicines in ocular pharmacotherapy <a href="#">Erratum</a>		BioImpacts 2(1):69-	2.2 Q3	0.553 Q2	4.8 Q1	2012	2
25	Barrier functionality of porcine and bovine brain capillary endothelial cells <a href="#">Original Article</a>		BioImpacts 1(3):153-159	2.2 Q3	0.553 Q2	4.8 Q1	2011	17
26	Impacts of nanomedicines in ocular pharmacotherapy <a href="#">Original Article</a>		BioImpacts 1(1):7-22	2.2 Q3	0.553 Q2	4.8 Q1	2011	16
27	Gap junctions: The claymore for cancerous cells <a href="#">Original Article</a>	- 1 more	BioImpacts 1(2):113-119	2.2 Q3	0.553 Q2	4.8 Q1	2011	5
28	Bioimpacts of anti epidermal growth factor receptor antisense complexed with polyamidoamine dendrimers in human lung epithelial adenocarcinoma cells <a href="#">Original Article</a>	- 1 more	Journal of Biomedical Nanotechnology 6(4):360-369		0.35 Q3	4.3 Q2	2010	39
29	Impacts of anti-EGFR monoclonal antibody in prostate cancer PC3 cells <a href="#">Original Article</a>		Human Antibodies 19(2-3):63-70		0.365 Q3	3.5 Q3	2010	17
30	Causative agents and antimicrobial susceptibilities of urinary tract infections in the northwest of Iran <a href="#">Original Article</a>		International Journal of Infectious Diseases 13(2):140-144	4.8 Q1	1.435 Q1	18.9 Q1	2009	112





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### Publications

Scopus **23** PubMed **27** ISI **25** G.Scholar **65**

Search Paper Title  Document Type  From  To  31 to 32 out of 32 Paper

No.	Title	Authors	Journal	IF	SJR	CiteScore	Published	Cited By
31	Detection of Leishmania infantum minicircle kinetoplast DNA in bone marrow and peripheral blood samples of paediatric patients from children's hospital of Tabriz Medical University	 - 4 more	Biotechnology 7(2):175-181				2008	1
32	Early age onset familial Mediterranean fever associated with compound heterozygote M680I/M694V mutation	 + 1 more	African Journal of Biotechnology 5(19):1713-1716				2006	2

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✓ **Presentation**

1. Nakhband A., Garjani A., Barar J., Omidi Y., Eskandani M., Saeedi N, Protective properties of marrubiin loaded solid lipid nanoparticles against pulmonary artery hypertension via scavenging of intercellular reactive oxygen species. 2nd Pulmonary Vascular Diseases Summit International Summit.2017
2. Nakhband A., Gargani A., Barar J., Omidi Y., Eskandani M., Saeedi N. Endotoxin Treatment in Isolated Rat Heart: TNF- $\alpha$  Rise Due to Activation of MYD88. 41st FEBS Congress, Ephesus-Turkey,2016
3. Rameshrad M., Gargani A., Maleki-dizaji N., Vaez H., Soraya H., Nakhband A.



Cloning of Taxadien Synthase gene in *Lycopersicon escolentum* : first biotechnological step for production of Taxol. 4th International Meeting on Pharmacy Pharmaceutical Sciences. Istanbul-Turkey. 2014

4. Mahna N., Hejazi MS., Nazemieh H., Sohani M.M, Hossein doust A., Atashpaz S., Mashinchian O., Ghiasvand S., Ettehad S., Nakhband A., Omidi Y., Cloning of Taxadien Synthase gene in *Lycopersicon escolentum* : first biotechnological step for production of Taxol. The 6th National Biotechnology Congress of Iran, Tehran, Iran,2009.

5. Barar J., Saei AA., Asadi M., Atashpaz S., Nakhband A., Omidi Y. Microarray analysis of polycationic gene delivery nanosystems in human A431 cells. 2nd International Student Conference of Biotechnology, Tehran, Iran (Nov 15-17, 2008).

6. Farajnia S., Kariminia A., Babaie H., Khalili G., Alimohammadian MH., Gooya M.M., Nakhband A., Mohammadnegad L., Cloning and recombinant expression of *Leishmania infantum* K39 antigen., The 8th Iranian Congress of Immunology & Allergy,16-18 May,2006 Tehran, Iran

7. Darbani B, Farajnia S, Tourchi M, Mohammadi SA. Nakhband A, Cloning and expression of *Leishmania infantum* K26 in *E. coli*. 9th Iranian GeneticsCongress. 20-22 May 2006, Tehran, Iran.

### ✓ Honors and Awards

1. Letter of appreciation from Vice Presidency of Tabriz University of Medical Sciences (2010).
2. Letter of appreciation from Vice Presidency of Tabriz University of Medical Sciences (2009).
3. Letter of appreciation from Vice Presidency of Tabriz University of Medical Sciences (2008).
4. Second best talented student in North-West of Iran.
5. Selected in 5th biology Olympiad in Iran.





6. Letter of appreciation for being the best teacher in the institution from Dean of Shokouh English Institution (2005).
7. Letter of appreciation for participation in the 2nd congress on applied biology (international approach) from Organizer of 2nd congress on applied biology And Dean of Islamic Azad University of Mashhad (2004).
8. Letter of appreciation for researches from Dean of science faculty, Tabriz University (2003).

✓ **Membership**

- Young talented focal center of Kermanshah Sep 2007- present
- Exceptional Talents students' office, Tabriz University. 2006 –present
- Biology Society, Tabriz University. 2003- 2007



✓ **Workshop Attendance**

- In vivo animal imaging workshop, (2008).
- Applications of Graphical Software in Biomedical Research, Research for Pharmaceutical Nanotechnology, (2009).
- Polymerase chain reaction (PCR): Principles and Application, Biotechnology Research Center (2007).
- Introduction to Lab animals., Drug Applied Research Center, (2006).