

## Hasan Ebrahimi Shahmabadi

**Gender:** Male

**Date of birth:** 6-Aug-1978

**Nationality:** Iranian

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### Education

#### Pasteur Institute of Iran

*Doctor of Philosophy (Ph.D.) Biological Products, GPA (16 /20)*

*Project: "In vivo evaluation of brain tumor in lab animal model using nanocisplatin", under the supervision of Professor. Azim Akbarzadeh (18.5/20)*

Tehran, Iran

Oct 2006 up to Apr 2014

#### University of Social Welfare and Rehabilitation Sciences

*Master of Science (M.Sc.) Human Genetic, GPA (16 /20)*

*Thesis: "SNPs evaluation in the Promoter and Coding Regions of Human RAP1A Genes, in Sporadic Breast Tumors", under the supervision of Professor Mina Ohadi (18/20)*

Tehran, Iran

Sep 2004 - Feb 2007

#### Kerman University of Medical Sciences

*Bachelor of Laboratory Sciences, GPA (16/20)*

Kerman, Iran

Feb 2000 – Sep 2002

#### Rafsanjan University of Medical Sciences

*Upper Diploma of Laboratory Sciences, GPA (15/20)*

Rafsanjan, Iran

Feb 1997 - Feb 2000

### Patents

#### Preparation of Cis-Platinum Loaded Polybutylcyanoacrylate Formulation for Treatment of Various Malignancies

*Iran. Accepted on April 17th 2014, Pat. No. 82657.*

#### Nano Drug Delivery of Pegylated Liposomal Hydroxyurea to Breast Cancer

*Iran. Accepted on April 17th 2014, Pat. No. 82656.*

### Conferences

#### Toxicity reduction of amphotericin B and improvement its therapeutic effects against Leishmania major by a dendrimer-based novel nanoformulation

*Tahereh Zadeh Mehrizi., Ali Khamesipour., Nariman Mosaffa., Mehdi Shafiee Ardestani., Mostafa Haji Molla Hoseini., **Hasan Ebrahimi Shahmabadi.**, Amitis Ramezani.\**

*29<sup>th</sup> ESCMID, 2019 Conference, 13-16 April 2019, Amsterdam, Netherlands*

#### Chitosan-betulinic acid as a novel nanoformulation against resistant Leishmania major

*Tahereh Zadeh Mehrizi., Mostafa Haji Molla Hoseini., Mehdi Shafiee Ardestani., Nariman Mosaffa., Ali Khamesipour., **Hasan Ebrahimi Shahmabadi.**, Amitis Ramezani.\**

*29<sup>th</sup> ESCMID, 2019 Conference, 13-16 April 2019, Amsterdam, Netherlands*

#### Evaluation the antidiabetic effects of Nigella sativa extract loaded onto niosome nanoparticle in animal model

*Mandana Moodi.\*, Maral Mazlumi Tabrizi., Afrooz Ahmadi., Zahra Keykhaee., Azim Akbarzadeh Kiyavi., **Hasan Ebrahimi Shahmabadi.***

## Papers

### **“Anthelmintics for drug repurposing: opportunities and challenges”**

Seyed Ebrahim Alavi. \*, **Hasan Ebrahimi Shahmabadi.**\*

*Saudi Pharmaceutical Journal*, Available online 16 April 2021, In Press, Journal Pre-proof, <https://doi.org/10.1016/j.jsps.2021.04.004>

### **“GLP-1 peptide analogs for targeting pancreatic beta cells”**

Seyed Ebrahim Alavi. \*, **Hasan Ebrahimi Shahmabadi.**\*

*Drug Discovery Today*, Available online 9 April 2021, <https://doi.org/10.1016/j.drudis.2021.03.032>, In Press, Journal Pre-proof

### **“A review study about the effect of chitosan nanocarrier on improving the efficacy of amphotericin B in the treatment of leishmania from 2010 to 2020”**

Tahereh Zadeh Mehrizi. \*, Seyed Mahdi Rezayat., Mehdi Shafiee Ardestani., **Hasan Ebrahimi Shahmabadi.**, Amitis Ramezani.

*Current Drug Delivery*; 2021, doi: 10.2174/1567201818666210316111941. Online ahead of print.

### **“Serum levels of CC chemokine ligands in cutaneous leishmaniasis patients”**

Gholamhossein Hassanshahi., Seyed Ebrahim Alavi., Hossein Khorramdelazad., Zahra Ahmadi., Ali Fattahi Bafghi., Seyed Hossein Abdollahi., **Hasan Ebrahimi Shahmabadi.**\*

*Journal of Parasitic Diseases*; 2021; 45: 153–158

### **“Mesoporous silica nanoparticles: synthesis methods and their therapeutic use-recent advances”**

Mohsen Ghaferi., Maedeh Koochi Moftakhari Esfahani., Aun Raza., Sitah Al Harthi., **Hasan Ebrahimi Shahmabadi.**\*, Seyed Ebrahim Alavi.\*

*Journal of Drug Targeting*; 2021; 29(2):131-154

### **“In vitro assessment of magnetic liposomal paclitaxel nanoparticles as a potential carrier for the treatment of ovarian cancer”**

Sara Yousefi Aldashi., Zahra Saffari., **Hasan Ebrahimi Shahmabadi.**\*, Azim Akbarzadeh.\*

*Advanced Pharmaceutical Bulletin*; 2021; 11(2): 267-273

### **“Effective materials of medicinal plants for leishmania treatment in vivo environment”**

Tahereh Zadeh Mehrizi., Mostafa Pirali Hamedani., **Hasan Ebrahimi Shahmabadi.**, Mehdi Mirzaei., Mehdi Shafiee Ardestani., Mostafa Haji Molla Hoseini., Nariman Mosaffa., Ali Khamesipour., Ahmad Javanmard., Shamsali Rezazadeh., Amitis Ramezani.\*

*Journal of Medicinal Plants*; 2020; 19(74): 39-62

### **“Preparation, Characterization, and Evaluation of Cisplatin-Loaded Polybutylcyanoacrylate Nanoparticles with Improved In Vitro and In Vivo Anticancer Activities”**

Mohsen Ghaferi., Samar Amari., Bhalchandra Vivek Mohrir., Aun Raza., **Hasan Ebrahimi Shahmabadi.**\*, Seyed Ebrahim Alavi.\*

*Pharmaceuticals*; 2020; 13(3):44

### **“Enhanced efficacy of PEGylated liposomal cisplatin: In vitro and in vivo evaluation”**

Mohsen Ghaferi., Mohammad Javad Asadollahzadeh., Azim Akbarzadeh., **Hasan Ebrahimi Shahmabadi.**\*, Seyed Ebrahim Alavi.\*

*International Journal of Molecular Sciences*; 2020; 21(2):559

**“Preparation, characterization and immunostimulatory effects of CRD2 and CRD3 from TNF receptor-1 encapsulated into pegylated liposomal nanoparticles”**

Hamideh Hatamihanza., Seyed Ebrahim Alavi.\* , Hasan Ebrahimi Shahmabadi.\*, Azim Akbarzadeh.

*International Journal of Peptide Research and Therapeutics*; 2019;1-9

**“Comparative analysis between four model nanoformulations of amphotericin b-chitosan, amphotericin b-dendrimer, betulinic acid-chitosan and betulinic acid-dendrimer for treatment of I. Major: real-time PCR assay plus. International Journal of Nanomedicine”**

Tahereh Zadeh Mehrizi., Ali Khamesipour.\* , Mehdi Shafiee Ardestani., Hasan Ebrahimi Shahmabadi., Mostafa Haji Molla Hoseini., Nariman Mosaffa., Amitis Ramezani.\*

*International Journal of Nanomedicine*; 2019; 14: 7593–7607

**“Evaluation of Cisplatin efficacy on HepG2 and E. coli Cells under acidic conditions”**

Faezeh Babaei., Hasan Ebrahimi Shahmabadi., Mohammad Reza Rajabi., Hamed Haddad Kashani., Fatemeh Izadpanah.\*

*Asian Pacific Journal of Cancer Prevention*; 2019; 20(3):723-726.

**“Cisplatin-Loaded Polybutylcyanoacrylate Nanoparticles with Improved Properties as an Anticancer Agent”**

Seyed Ebrahim Alavi., Sitah Muflih Al Harthi., Hasan Ebrahimi Shahmabadi.\* Azim Akbarzadeh.\*

*International Journal of Molecular Sciences*, 2019, 20(7), 1531

**“In Vivo Therapeutic Effects of Four Synthesized Antileishmanial Nanodrugs in the Treatment of Leishmaniasis”**

Tahereh Zadeh Mehrizi., Nariman Mosaffa., Mostafa Haji Molla Hoseini., Mehdi Shafiee Ardestani.\* , Ali Khamesipour., Hasan Ebrahimi Shahmabadi., Mostafa Pirali Hamedani., Yasaman Mardani Dashti., Amitis Ramezani.\*

*Archives of Clinical Infectious Diseases*. 2018; 13(5):e80314

**“Drug Delivery of Cisplatin to Breast Cancer by Polybutylcyanoacrylate Nanoparticles”**

Maedeh Koochi Moftakhari Esfahani., Seyed Ebrahim Alavi.\* , Shahedeh Shahbazian., Hasan Ebrahimi Shahmabadi.\*

*Advances in Polymer Technology*, 2018; 37(3):674-678

**“Synthesis and Characterization of Polyethylene Glycols Conjugated to Polybutylcyanoacrylate Nanoparticles”**

Faezeh Babaei., Seyed Ebrahim Alavi.\* , Hasan Ebrahimi Shahmabadi.\*, Azim Akbarzadeh.

*International Journal of Polymeric Materials and Polymeric Biomaterials (IF: 1.667)*, 2017; 66(14):738-741

**“Carboplatin Liposomal Nanoparticles Preparation, Characterization and Cytotoxicity Effects on Lung Cancer in Vitro Environment”**

Donya Poy., Hasan Ebrahimi Shahmabadi., Azim Akbarzadeh.\* , Hemen Moradi Sardareh., Meysam Ebrahimifar.\*

*International Journal of Polymeric Materials and Polymeric Biomaterials*, 2017; Article DOI 10.1080/00914037.2017.1332624: 367-370

**“Toxicity of Cisplatin-Loaded Poly Butyl Cyanoacrylate Nanoparticles in a Brain Cancer Cell Line: Anionic Polymerization Results”**

Nejad Mohamadi., Seyed Maryam Kazemi., Mahshid Mohammadian., Attabak Toofani Milani., Younes Moradi., Maryam Yasemi., Meysam Ebrahimi Far.\* , Maral Mazloumi Tabrizi.\* , Hasan Ebrahimi Shahmabadi., Azim Akbarzadeh Khiyavi.

*Asian Pacific Journal of Cancer Prevention*, 2017; 18(3):629-632

**“Effects of Cisplatin-Loaded Niosomal Nanoparticles on BT-20 Human Breast Carcinoma Cells”**

Leila Kanaani., Iraj Javadi., Meysam Ebrahimifar.\* , **Hasan Ebrahimi Shahmabadi.**, Azim Akbarzadeh Khiyavi., Torkan Mehrdiba.\*  
*Asian Pacific Journal of Cancer Prevention*, 2017; 18(2):365-368

**“Enhancing Effects of Curcumin on Cytotoxicity of Paclitaxel, Methotrexate and Vincristine in Gastric Cancer Cells”**

Meysam Ebrahimifar., Majid Hasanzadeganroudsari., Seyed Maryam Kazemi., **Hasan Ebrahimi Shahmabadi.**, Leila Kanaani., Seyed Ali Alavi., Mehdi Izadi Vasfi.\*  
*Asian Pacific Journal of Cancer Prevention*, 2017; 18 (1), 65-68

**“General Characteristics and Cytotoxic Effects of Nano-Poly (Butyl Cyanoacrylate) Containing Carboplatin on Ovarian Cancer Cells”**

Leila Kanaani., Meysam Ebrahimi Far.\* , Seyed Maryam Kazemi., Edris Choupani., Maral Mazloumi Tabrizi., **Hasan Ebrahimi Shahmabadi.**, Azim Akbarzade Khiyavi.  
*Asian Pacific Journal of Cancer Prevention*, 2017; 18(1):87-91

**“Preparation, Characterization and Cytotoxic Effects of Pegylated Nanoliposomal Containing Carboplatin on Ovarian Cancer Cell Lines”**

Meysam Ebrahimifar., Amir Nili-Ahmadabadi.\* , Azim Akbarzadeh., **Hasan Ebrahimi Shahemabadi.**, Majid Hasanzadegan., Hemen Moradi-Sardareh., Hassan Madadizadeh., Jalal Rezaee-diyani.  
*Indian Journal of Clinical Biochemistry*. 2017; 32(2): 230-234

**“Generation of truncated recombinant form of tumor necrosis factor receptor-1 to produce cancer vaccine”**

Hamide Hatamihanza., Mehrdad Hashemi.\* , Azim Akbarzadeh., Fatemeh Fotouhi., Behrokh Farahmand., **Hasan Ebrahimi Shahmabadi.**  
*Tropical journal of pharmaceutical research*, 2016; 15(11): 2345

**“Preparation, Characterization and Cytotoxic Effects of Liposomal Nanoparticles Containing Cisplatin: An in Vitro Study”**

Donya Poy., Azim Akbarzadeh., **Hasan Ebrahimi Shahmabadi.**, Meysam Ebrahimifar., Ali Farhangi., Maryam Farahnak Zarabi., Azam Akbari., Zahra Saffari., Fatemeh Siami.\*  
*Chemical Biology & Drug Design*, 2016; 88(4): 568-73

**“Investigation the Characteristics of Carboplatin loaded onto Pegylated Liposomal Nanoparticles on the Rat Glioma Cell line C6”**

Mehdi Izadi., **Hasan Ebrahimi Shahemabadi.**, Leila Kanaani., Kamran Amir Sardari., Meysam Ebrahimifar.\* , Faezeh Safdari., Reihaneh Asachi, Azim Akbarzadeh, Hemen Moradi-Sardareh.\*  
*Advances in Bioresearch*, Vol 7 (4) July 2016: 113-118

**“REMOVE NICKEL (II) FROM DRINKING WATER USING THIOL FUNCTIONALIZED CHITOSAN”**

Mehdi Izadi., Meysam Ebrahimifar.\* , Leila Kanaani., **Hasan Ebrahimi Shahemabadi.**, Kamran Amir Sardari., Mohamad Reza Abadian., Behrouz jamali., Kamal Sadate Aselan., Elham Ebrahimi Naghani., Hemen Moradi-Sardareh.\*  
*Advances in Bioresearch*. 2016; 7(4): 107-112

**“The efficiency of Zoledronic acid loaded liposomal nanoparticles on breast cancer: an in vitro study”**

Mehri Naseri., Azim Akbarzadeh.\* , Zahra Saffari., **Hasan Ebrahimi Shahmabadi.**  
*Journal of Current Pharma Research*. 2015; 5(4): 1586-1590

**“Release modeling and comparison of nanoarchaeosomal, nanoliposomal and pegylated nanoliposomal carriers for paclitaxel”**

Fatemeh Movahedi., **Hasan Ebrahimi Shahmabadi.**, Maedeh Koochi Moftakhari Esfahani.\* , Seyed Ebrahim Alavi.\*

*Tumor Biology*, 2014; 35(9):8665-8672

**“Efficacy of Cisplatin-loaded Poly Butyl Cyanoacrylate Nanoparticles on the Ovarian Cancer: An in Vitro Study”**

Seyed Kazem Bagherpour Doun., Seyed Ebrahim Alavi.\*, Maedeh Koohi Moftakhari Esfahani.\*, Hasan Ebrahimi Shahmabadi., Fatemeh Alavi., Somayeh Hamzei.

*Tumor Biology*, 2014; 35(8):7491-7497

**“Efficacy of Cisplatin-loaded polybutyl cyanoacrylate nanoparticles on the glioblastoma”**

Hasan Ebrahimi Shahmabadi., Fatemeh Movahedi., Maedeh Koohi Moftakhari Esfahani., Seyed Ebrahim Alavi.\*, Ali Eslamifar, Gholamreza Mohammadi Anaraki., Azim Akbarzadeh.\*

*Tumor Biology*, 2014; 35(5):4799-4806

**“Poly butylcyanoacrylate nanoparticles and drugs of the platinum family: Last Status”**

Fatemeh Dashti Rahmat Abadi., Hasan Ebrahimi Shahmabadi., Atena Abedi., Seyed Ebrahim Alavi., Fatemeh Movahedi., Maedeh Koohi Moftakhari Esfahani., Tahereh Zadeh Mehrizi.,\* Azim Akbarzadeh.\*

*Indian Journal of Clinical Biochemistry*, 2014; 29(3):333-338

**“Effect of gold nano particles on properties of nanoliposomal hydroxyurea: An in vitro study”**

Javad Shahabi., Hasan Ebrahimi Shahmabadi., Seyed Ebrahim Alavi., Fatemeh Movahedi., Maedeh Koohi Moftakhari Esfahani., Tahereh Zadeh Mehrizi,\* Azim Akbarzadeh.\*

*Indian Journal of Clinical Biochemistry*, 2014; 29(3):315-320

**“An investigation into the parameters affecting preparation of polybutylcyanoacrylate nanoparticles by emulsion polymerization”**

Hasan Ebrahimi Shahmabadi., Seyed Kazem Bagherpour Doun., Seyed Ebrahim Alavi, Mehri Mortazavi., Zahra Saffari., Maryam Farahnak., Azim Akbarzadeh.\*

*Indian Journal of Clinical Biochemistry*, 2014; 29(3):357-361

**“Effect of sodium chloride on efficiency of cisplatin dissolved in dimethyl sulfoxide: An in vitro study”**

Seyed Kazem Bagherpour Doun., Sohrab Halal Khor., Durdi Qujeq., Hasan Ebrahimi Shahmabadi., Seyed Ebrahim Alavi., Fatemeh Movahedi., Azim Akbarzadeh.\*

*Indian Journal of Clinical Biochemistry*, 2014; 29(2): 242-245

**“ADVANTAGES OF PACLITAXEL-LOADED NANO NIOSOMES TO NANOLIPOSOMAL FORMULATION: AN IN VITRO STUDY”**

Mohammad Zarei., Dariush Norouzian., Mohsen Chiani., Hasan Ebrahimi., Mahshid Mohammadi., Azim Akbarzadeh.\*

*International journal of life sciences biotechnology and pharma research*. 2013; 2(1): 335-342

**“EFFECT OF ARTEMISININ LIPOSOME AND ARTEMISININ LIPOSOME POLY ETHYLENEGLYCOL ON MCF-7 CELL LINE”**

Neda Dadgar., Dariush Norouzian., Mohsen Chiani., Hasan Ebrahimi Shamabadi., Seyed Mohammadreza Mehrabi., Ali Farhanghi., Azim Akbarzadeh.\*

*International journal of life sciences biotechnology and pharma research*. 2013; 2(1): 349-355

**“Evaluation of synthesized platinum nanoparticles on the MCF-7 and HepG-2 cancer cell lines”**

Hadi Mohammadi.\*, Anita Abedi., Azim Akbarzadeh., Mohammad Javad Mokhtari., Hasan Ebrahimi Shahmabadi., Mohamad Reza Mehrabi., Saifuddin Javadian., Mohsen Chiani.

*International Nano Letters*. 2013; 3:28

**“Paclitaxel loaded niosome nanoparticle formulation prepared via reverse phase evaporation method: an in vitro evaluation”**

Mohammad Zarei.\*, Dariush Norouziyan., Behrokh Honarvar., Mahshid Mohammadi., **Hasan Ebrahimi Shahmabadi.**, Azim Akbarzadeh.  
*Pakistan Journal of Biological Sciences. 2013; 16(6): 295-8*

**“In vitro evaluation of the effects of acetone, on the potency of cisplatin, is it a good candidate for cisplatin carrier preparation”**

**Hasan Ebrahimi Shahmabadi.**, Azim Akbarzadeh.\*, Mohammad Javad Mokhtari., Mehri Mortazavi., Soheil Ghasemi., Hadi Mohammadi., Seyed Kazem Bagherpour Doun.  
*E3 Journal of Biotechnology and Pharmaceutical Research, 2012; 3(8): 137-140*

**“An in vitro assay to evaluate the immunomodulatory effects of unrestricted somatic stem cells”**

**Hasan Ebrahimi.**, Masoud Soleimani.\*, Mohammad Kazemi Arababadi., Naser Ahmadbeigi., Gholamhossein Hassanshahi., Akbar Farjadfar., Dereck Kennedy.  
*Iranian Journal of Immunology. 2010; 7(1): 30-8*

**“New Variations in the Promoter Regions of Human DOCK4 and RAP1A Genes, and Coding Regions of RAP1A in Sporadic Breast Tumors”**

Akram Jalali., **Hassan Ebrahimi.**, Mina Ohadi., Masood Karimloo., Atena Irani Shemirani., Behrokh Mohajer., Hamid Reza Korram Khorshid.\*  
*Avicenna Journal of Medical Biotechnology. 2009; 1(2): 117-23*

## Experience

|   |                     |
|---|---------------------|
| <b>Pasteur Institute of Iran, Department of Pilot Nanobiotechnology</b> | Tehran-Iran         |
| Researcher  | Dec 2011 - Sep 2012 |
| Supervising M.Sc. and B.Sc. student`s experimental work                 | Oct 2012 – Oct 2016 |
| <b>Knowledge-based company of Zista Pardazan Atiyeh Asre Nano</b>       | Tehran-Iran         |
| Researcher  | Feb 2014 - Oct 2016 |
| <b>SABZ Biomedicals company</b>   | Tehran-Iran         |
| Researcher  | Sep 2012 - Sep 2013 |

## Techniques

Nanodrug delivery

Microbial and cell culture

Work experience with laboratory animals

Induction of brain tumor (Rat)

Induction of breast cancer (mice)

## Special Honors and Awards

Prize winner as the top researcher of Rafsanjan University of Medical Sciences 2017

## Skills and Courses

Computer skills

- Microsoft office
- Endnote

## References

**Professor Azim Akbarzadeh**

*Faculty and Former Head of Pilot Department of Nanobiotechnology, Pasteur Institute of Iran, Tehran, Iran*

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**Additional information is available upon request**