

## Personal details

**Full Name:** Madineh Moradi Alvand

**Marital Status:** Single

**Nationality:** Iranian

**Date of Birth:** 13/04/1997

**Language:** English-Fluent, Persian-Native

**Address:** Medicinal Plants and Drugs Research Institute, Lab of Medicinal Chemistry and pharmaceutical System design lab, Shahid Beheshti University (SBU), Tehran Province, Tehran, District 1, Daneshjou Boulevard, 19839 69411(The most accredited institute in the field of new drug delivery systems in nano and micro encapsulation in Iran)

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## Education

### BSc.

Applied chemistry at Shahid chamran university of Ahwaz, Iran: (2016-2020).

Thesis Title: Predicting the stability of internal complexes formed between cucurbits And platinum-based anticancer drugs.

GPA: 4.0/4.0

Supervisor: Dr. Zabihullah Mahdavifar; [zb.nojini@gmail.com](mailto:zb.nojini@gmail.com)

### MSc.

pharmaceutical Chemistry at Medicinal Plants and Drugs Research Institute, Shahid Beheshti University (SBU), Tehran Province, Iran: (2020-2022).

Thesis Title: Evaluation of the effect of nanoemulsion containing cinnamon essential oil on *Helicobacter pylori* in microfluidic systems.

GPA: 4.0/4.0

Supervisor: Dr. Hassan Rafati: [h\\_rafati@sbu.ac.ir](mailto:h_rafati@sbu.ac.ir)

## **Research Interests**

Formulation of drug compounds, chromatography, Nanoemulsion of natural compounds, Microencapsulation of drug compounds, formulate anticancer nano and micro particles ( pH-sensitive polymeric nanoparticle of mesalamin for colon delivery by Eudragit S100 for colon cancer), MTT Test ,Study of *anti-Helicobacter pylori* effects in the form of bulk and nanoemulsions, *Helicobacter pylori*, New drug delivery systems, Microfluidic systems

## **Journal Publications**

SUBMITTED (to *Helicobacter* - Wiley Online Library)

## **Specialized Courses**

Formulation of medicinal compounds isotretinoin soft gel

Tablet enteric coating formulation.

Nanoemulsion formulation.

Colon delivery by Eudragit S100 for colon cancer

Familiar with CTD writing of pharmaceutical products.

Spray dryer

Ultrasonic pulsed and continuous

HPLC (Instrumental drug analysis and method development)

GC-MS

In Silico drug design and molecular docking

Microfluidic systems and related devices

Microbial and toxicity tests.

R&D expert in injectable ophthalmic drugs: Alasht Pharmed Co.

## **Academic Awards**

- Top undergraduate student( top 10% of my class)
- Admission to the master's degree by Recognized Students Society (Talented students)
- Permanent membership during the study period in the National Organization for Development of Exceptional Talents

## **Professional development**

Interested in the commercialization of formulations of pharmaceutical compounds and preparation of pharmaceutical products with new technologies of drug delivery and commercialization of related products, commercial use of microfluidic systems in therapeutic applications.

## **Computer Skills & Software**

ChemDraw, Gaussian 09W, Schrödinger, Hyperchem professional, Math lab, Design expert, particle, Photoshop, Origin pro2019.

## **Research and laboratory skills**

pH-sensitive polymeric microparticle of mesalamin for colon delivery by Eudragit S100 for colon cancer, Culture and purification of *Helicobacter pylori* from biopsy specimens of patients, Preparation of suspensions containing bacteria and stable nanoparticles, Stabilization of unstable formulation of drug nanoparticles for long months, High performance liquid chromatography, Chemistry and separation of natural products, Herbal medicine Separation of compounds, Treatment of phytochemicals, Purification and extraction, Extraction of chemicals of Soxhlet extraction, production and separation of essential oils of high yielding medicinal plants, Ethno medicine, development of extraction / Separation method, Development of chromatography, Nano and microencapsulation of pharmaceutical compounds, Operator Spray dryer, Protein analysis with ELISA mechanism and ELISA reader, Ash measurement test, Karl Fischer test

## **Career History**

Devices operator: HPLC, GC-MS, SPRY DRYER, DLS,

## **Personal Links**

Research Gate: [m.moradialvand@mail.sbu.ac.ir](mailto:m.moradialvand@mail.sbu.ac.ir)