



Mohammad Hooshyari

WORK EXPERIENCE

Quality Control Manager

AmoPharmedAria pharmaceutical Co. [02/02/2020 – 01/02/2022]

City: Tehran

Country: Iran

- Analysis of products based on pharmacopeia
- Updated quality control standards, methods, and procedures to meet compliance requirements.
- Improved quality processes for increased efficiency and effectiveness

Laboratory Research Assistant

Shahid Beheshti University, Department of Medicinal Plants and Drugs Research Institute (MPDRI) [10/02/2018 – 01/01/2020]

City: Tehran

Country: Iran

- Large-Scale Purification Of Picrocrocin And Crocins From *Saffron plant*
- Development Of MALDI-TOF Mass Spectrometry For Rapid Quantitative Studies for herbal Product
- Industrial Purification Of 6-Gingerol (Main Compound) From *Ginger*
- Chromatographic Fingerprinting And Quality Control Of Saffron

EDUCATION AND TRAINING

Visiting PhD Student

University of Ferrara, Department of Chemical, Pharmaceutical and Agricultural Sciences [24/02/2023 – Current]

Address: via Luigi Borsari 46, Ferrara (Italy)

Thesis: From batch to continuous chromatographic purification of a Crocin-1 through MCSGP from saffron Plant.

- Optimization of MCSGP process for natural compounds for the first time - (under supervision Prof. Cavazzini Alberto)

Ph.D

Shahid Beheshti University, Department of Medicinal Plants and Drugs Research Institute (MPDRI) [18/09/2018 – Current]

City: Tehran

Country: Iran

Field(s) of study: Phytochemistry

Thesis: Two-dimensional Chromatography combined with mathematical Modeling for purification of Cannabidiol

- Optimization of cannabinoid decarboxylation by Response Surface Methodology (RSM)
- Design Mathematical modeling for reverse phase chromatography purification of CBD
- Purification of *melittin* peptide by semi-preparative scale from *bee venom*
- Purification natural pigments from Safflower
- Semi-Prep Purification of Stevioside And Rebaudioside A With HILIC Technique

MSc

Shahid Beheshti University, Department of Medicinal Plants and Drugs Research Institute (MPDRI) [18/09/2015 – 18/12/2017]

City: Tehran

Country: Iran

Field(s) of study: Phytochemistry

Final grade: 19.78 (based on 20 degree)

Thesis: Comprehensive study of HPLC-DAD and MALDI-TOF-MS based metabolomics of Iranian saffron followed by large-scale purification of picrocrocin and crocins

Bachelor

Yazd University, Chemistry Faculty [17/09/2010 – 15/06/2015]

City: Yazd

Country: Iran

Field(s) of study: Chemistry

Final grade: 17.1 (based on 20 degree)

PUBLICATIONS

Cannabidiol inhibits tau aggregation in vitro

[2021]

Quantitative metabolomics of Iranian saffron based on their HPLC-DAD and MALDI-TOF-MS

[2020]

Two-dimensional Chromatography Combined with Mathematical Modeling for Purification of Cannabidiol from Cannabis Sativa L. (under submission)

DIDACTIC ACTIVITIES

Chromatography Tutor - Shahid Beheshti University, Department of Medicinal Plant and Drug Research Institute, Tehran, Iran.

[07/2022 – 10/2022]

Teaching HPLC Troubleshooting & method validation

Laboratory Tutor - Shahid Beheshti University, Department of Medicinal Plant and Drug Research Institute, Tehran, Iran.

[07/2019 – 10/2022]

Teaching assistant for Analytical Chemistry Laboratory

08/06/2023
MOHAMMAD HOOSHYARI