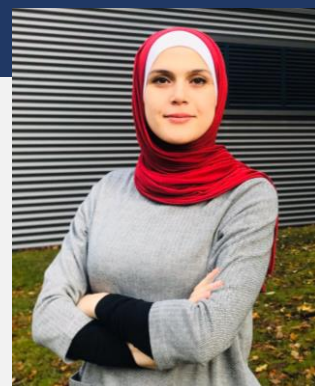


Curriculum Vitae

**Name**

Tamara Athamneh

Birth date and place

29.11.1985 in Jordan

Address

Irbid-Jordan

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077772496

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Academic Experience

2/2021- Currently

Hashemite University

Assistant professor

Teaching the following courses:

- Pharmaceutical Calculations and Compounding
- Selected topics in pharmaceutical technology
- Pharmaceutical quality and regulatory affairs

10/2020- 2/2021

Jadara University

Assistant professor

Teaching the following courses:

- Pharmaceutical dosage form 3
- Analytical lab
- Drug design

10/2020- 2/2021

Lecturer at Jordan University of Science and Technology

Assistant professor- Part time

Teaching the following course:

- Nanomedicine

03/2016- 06/2020

Hamburg University of Technology (TUHH) and University of Hamburg

Research Associate

Key results

- Developed a pulmonary drug carrier of alginate and hybrid alginate-hyaluronic acid by the aerogel technology.
- Optimization of the pulmonary drug carrier using the emulsion gelation technique.
- Assessment of the gelation point by a rheological characterization (elastic and the viscous modulus).
- Assessment of the physicochemical and aerodynamic properties of the alginate and hybrid alginate-hyaluronic acid pulmonary drug carrier.

9/2014- 6/2015

Lecturer at Jordan University of Science and Technology

Teaching practical courses in the pharmaceutical microbiology and quality control

Academic Qualifications

- 03/2016- 06/2020 **University of Hamburg**
Doctoral studies in pharmaceutical technology
- 09/2011-04/2014 **Jordan University of Science and Technology**
Master of Science in pharmaceutical technology
Optimization of a transdermal patches of levodopa and β -cyclodextrin
Investigation the in vitro drug release from the transdermal patches using excised rat skin mounted in the franz diffusion cell
- 09/2003-02/2008 **Jordan University of Science and Technology**
Bachelor in pharmacy
- 07/2013-09/2013 **North Rhine Westphalia scholarship - Germany**
- Development of polymeric scaffolds for tissue engineering. In particular artificial polymeric scaffolds for adhesion of cells / stem cells
 - Investigation of adhesion, proliferation, and differentiation of adult human mesenchymal stem cells and endothelial cells (experiments performed in the laboratories of Prof. Tobiasch)
 - Biocompatibility studies of artificial scaffolds
 - Modification of scaffold surfaces via adhesion of bioactive factors, e.g. purinergic receptors (in particular P2) and corresponding ligands – literature study

Publications and patents

1. Enhancement of levodopa stability when complexed with β -cyclodextrin in transdermal patches Pharmaceutical Development and Technology (2016)
2. Alginate and hybrid alginate-hyaluronic acid aerogel microspheres as potential carrier for pulmonary drug delivery (2019).
3. Mechanically Strong Polyurea/Polyurethane-Cross-Linked Alginate Aerogels(2020)
4. Polyurea-crosslinked biopolymer aerogel beads (2020)
5. Pulmonary drug delivery with aerogels: Engineering of alginate and alginate-hyaluronic acid microspheres (2021)
6. Evaluation of the orally administered calcium alginate aerogel on the shift of gut microbiota and toxicity of Wistar rats (2021)

Registered a patent:

Polyurea/polyurethane-crosslinked alginate aerogels

Conference

- Hyaluronic acid-alginate aerogel as potential drug carrier. The fourth international seminar on aerogels. 2018, Hamburg, Germany
- Preparation and characterization of alginate- hyaluronic acid nanoporous microspheres as potential carrier for pulmonary drug delivery using supercritical fluid technology. (Awarded the Postgraduate Oral Presentation Awards), Applied Science Private University Pharmacy Fourth International Conference. 2019, Amman, Jordan.
- Preparation and characterization of alginate- hyaluronic acid nanoporous microspheres as potential carrier for pulmonary drug delivery using supercritical fluid technology. Jahrestreffen der ProcessNet-Fachgruppen Adsorption und Hochdruckverfahrenstechnik. 2019, Freiberg, Germany
- Pulmonary drug delivery with aerogels: Engineering of alginate and alginate-hyaluronic acid microspheres. (Awarded the first prize for the best oral presentation in early career investigator forum), the International Conference on Aerogels for Biomedical and Environmental Applications. 2020, Santiago de Compostela, Spain.

Experience

09/2009-02/2010

Jordan Health Aid Society
Pharmacist

05/2015-01/2016

International Medical Corps (IMC)
Mental health case manager

Languages

- Arabic, Native speaker
- English, Full professional proficiency
- German, Intermediate, B1 level

Irbid-15-03-2021

