**NAME AND SURNAME: AMINA TUCAK**

**Work experience:**

* 2018. Teaching and Research Assistant

Department of Pharmaceutical Technology, *Faculty of Pharmacy, University of Sarajevo*

**Education:**

* *2019.*

*Long-life learning program „Pedagogical education and enforcement of competencies of academic staff at the University of Sarajevo“ (TRAIN program) organized by University of Sarajevo*

* *2018.*

*PhD student at Faculty of Pharmacy, University of Sarajevo*

* *2018.*

*TAIEX Workshop, Biomedical engineering: Nanotechnology (Mostar, Bosna & Herzegovina) organized by Bosnia and Herzegovina Medical and Biological Engineering Society*

* *2018.*

*Passed state professional exam for a title “Master of Pharmacy“, Ministry of Health of the Federation of Bosnia and Herzegovina*

* *2017. MPharm.*

*Diploma thesis:* Microneedle-assisted drug delivery through the skin – formulation aspects

*University of Sarajevo, Faculty of Pharmacy*

**Study abroad:**

* 2019.

Institute of Pharmaceutical Sciences, Department of Pharmaceutical Technology & Biopharmacy, University of Graz, Austria

* 2018.

Institute of Pharmaceutical Sciences, Department of Pharmaceutical Technology & Biopharmacy, University of Graz, Austria

* 2017.

Department of Pharmacokinetics & Biopharmacy, Faculty of Pharmacy, University of Ljubljana, Slovenia

**Academic/teaching work:**

*The integrated study programme of the first and second cycle of Faculty of Pharmacy, University of Sarajevo*

* *Subjects:*

*„Industrial pharmacy I“,*

*„Industrial pharmacy II“ and*

*Selected topic in industrial pharmacy – Stability of drugs*

**Projects:**

* 2019-2020. Researcher

An international scientific project between Bosnia & Herzegovina and Austria

„Lipid nanoparticles as drug delivery systems for micro RNA“

(Project leaders: Prof. dr. Edina Vranić and Prof.dr. Andreas Zimmer)

* 2017. Researcher

An international scientific project between Bosnia & Herzegovina and Slovenia

„The influence of selected parameters on *in vitro* release of active substances“

(Project leaders: Prof. dr. Edina Vranić)

**Selected publications:**

* **Tucak, A.,** Camović, M., Sirbubalo, M., Muhamedagić, K., Čekić, A., Vranić, E. Structuring of 3D-printed PLA microneedles for pre-treatment of transdermal drug delivery. (2019). In: *4th Congress of pharmacists in Bosnia and Herzegovina, 10-13. October 2019. – abstract book.* Sarajevo, p. 232-234
* Camović, M., Biščević, A., Brčić, I., Borčak, K., Bušatlić, S., Ćenanović, N., Dedović, A., Mulalić, A., Osmanlić, M., Sirbubalo, M., **Tucak, A.,** Vranić, E. (2019) Coated 3D printed PLA microneedles as transdermal drug delivery systems. In: Badnjevic A., Škrbić R., Gurbeta Pokvić L. (eds) *International Conference on Medical and Biological Engineering in Bosnia and Herzegovina, Banja Luka, 16th -18th May 2019.* Proceedings of the International Conference on Medical and Biological Engineering, pp. 735-43. Springer, Cham.
* Camović, M., Biščević, A., Brčić, I., Borčak, K., Bušatlić, S., Ćenanović, N., Dedović, A., Mulalić, A., Osmanlić, M., Sirbubalo, M., **Tucak, A.,** Vranić, E. (2019) Acid-resistant capsules with sugar microneedles for oral delivery of ascorbic acid. In: Badnjevic A., Škrbić R., Gurbeta Pokvić L. (eds). *International Conference on Medical and Biological Engineering in Bosnia and Herzegovina, Banja Luka, 16th -18th May 2019.* Proceedings of the International Conference on Medical and Biological Engineering, pp. 749-755. Springer, Cham.
* Krezić, S., Krhan, E., Mandžuka, E., Kovaĉ, N., Krajina, D., Marić, A., Komić, S., Nikšić, A., **Tucak A.,** Sirbubalo M., Vranić E. (2019). Coated 3D Printed Fabrication of rectal and vaginal suppositories using 3D printed moulds: The challenge of personalized therapy. In: Badnjevic A., Škrbić R., Gurbeta Pokvić L. (eds) *International Conference on Medical and Biological Engineering in Bosnia and Herzegovina, Banja Luka, 16th -18th May 2019.* Proceedings of the International Conference on Medical and Biological Engineering, pp. 729-735. Springer, Cham.
* Vranić E., Sirbubalo M., **Tucak A.,** Hadžiabdić J., Rahić O., Elezović A. (2019) Development of inhalable dry gene powders for pulmonary drug delivery by spray-freeze-drying. In: Badnjevic A., Škrbić R., Gurbeta Pokvić L. (eds) *International Conference on Medical and Biological Engineering in Bosnia and Herzegovina, Banja Luka, 16th -18th May 2019.* Proceedings of the International Conference on Medical and Biological Engineering, pp. 100-101. Springer, Cham.
* Vranić E., **Tucak A.,** Sirbubalo M., Rahić O., Elezović A., Hadžiabdić J. (2019) Microneedle-based sensor systems for real-time continuous transdermal monitoring of analytes in body fluids. In: Badnjevic A., Škrbić R., Gurbeta Pokvić L. (eds) *International Conference on Medical and Biological Engineering in Bosnia and Herzegovina, Banja Luka, 16th -18th May 2019.* Proceedings of the International Conference on Medical and Biological Engineering, pp. 100-101. Springer, Cham.
* Sokolović, N., Ajanović, M., Badić, S., Banjanin, M., Brkan, M., Čusto, N., Stanić, B., Sirbubalo M., **Tucak A.,** Vranić E. (2019) Predicting the outcome of granulation and tableting processes using different artificial intelligence methods. In: Badnjevic A., Škrbić R., Gurbeta Pokvić L. (eds) *International Conference on Medical and Biological Engineering in Bosnia and Herzegovina, Banja Luka, 16th -18th May 2019.* Proceedings of the International Conference on Medical and Biological Engineering, pp. 499-505. Springer, Cham.
* Vranić, E., Grizić, D., **Tucak, A.,** Sirbubalo, M., Glavas Dodov, M., Klebovich, I., Planinsek, O. (2018). In vitro dissolution studies of solid dispersions of celecoxib prepared by using the solvent-evaporation technique and liquid-solid impregnation technique. *3rd International Symposium on Scientific and Regulatory Advances in Biological and Non – Biological Complex Drugs: A to Z in Bioequivalence.* Budapest, Hungary, November 12 – 14, 2018, Program and Abstract Book
* Vranić, E., **Tucak, A.,** Vrabac, D., Rahić, O., Elezović, A., Hadžiabdić, J. (2017). Microneedle-assisted delivery of NSAIDs. In: Badnjevic A. (eds) *CMBEBIH 2017*. *IFMBE Proceedings,* vol 62. Springer: Singapore, pp. 311-316.