DINARA KANAFINA (MUKHANOVA)

Tel.: +7(702)-509-43-39 e-mail: amirovna.d@gmail.com

EDUCATION

Karagandy State University, Kazakhstan 2015 – 2017

Master of Science in Chemistry, **GPA 3.92/4.0**

- **Thesis: "**Development of a method for synthesis of polymer nanoparticles for drug delivery"

Karagandy State University, Kazakhstan 2011 – 2015

Bachelor of Science in Chemical Technology of pharmaceutical production, **GPA 3.80/4.0**

- **Thesis: "**Study of the possibility of polymeric nanoparticles formation by the hepatoprotective drugs"

WORK EXPERIENCE

RA, Environmental Science and Technology Group, NU, Astana Jan 2021 – Mar 2023

- Conducted experiments on water treatment;
- Analysis of organic compounds using HPLC.

Engineer-virologist, Biotron Group LLP, Stepnogorsk Sep 2017 – Aug 2018

- Prepared nutrient media and solutions for growing cells (sterilizing filtration, autoclaving);
- Conducted continuous cultivation of cell cultures (such as BHK 21 (cl-13), MDBK, Taurus-1, etc.);
- Was responsible for accumulation of vaccine strains from rabies virus.

Research Intern, Institute of Organic Synthesis and Coal Chemistry, Karagandy Apr 2017

- Undertook a lab training on organic synthesis

RA, Chemical Materials Science and Nanochemistry Lab, KSU, Karagandy Sep 2015 – May 2016

- Conducted organic synthesis and characterization of polymeric nanomaterials

RA, "Phytochemistry" JSC, Karagandy Sep 2012 – Mar 2015

- Was responsible for isolation and investigation of heterocyclic compounds from the plant materials;
- Planned and conducted chemical modification of sesquiterpene lactones.

HONORS AND AWARDS

State Grant for Graduate Studies Aug 2015

State Grant for Undergraduate Studies Aug 2011

- Was awarded with a State Grant for scoring 114 out of 125 at the Unified National Testing

JOURNAL PUBLICATIONS AND CONFERENCE PRESENTATIONS

- UV and Zero-Valent Iron (ZVI) Activated Continuous Flow Persulfate Oxidation of Municipal Wastewater. *Catalysts* **2023**, 13, 25. https://doi.org/10.3390/catal13010025
- Anaerobic Membrane Bioreactors for Municipal Wastewater Treatment: A Literature Review. *Membranes* **2021**, 11, 967. https://doi.org/10.3390/membranes11120967
- Polymer nanoparticles immobilized by hepatoprotective drug Silymarin. *International Conference organized by British Council "Polymers and hydrogels for wound care and other biomedical applications",* **2017,** Almaty, Kazakhstan
- Immobilization of silymarin into the albumin matrix. *Internauka* **2016**, 2, 81-83. https://elibrary.ru/item.asp?id=27811373
- Immobilization of methotrexate drug in the matrix of albumin. *News of Kazakhstan Science*. **2016,** 4. http://www.vestnik.nauka.kz/en/ximiya/metotreksat-preparatyn-albumin-matricasyna-immobildeu.php
- Novel forms of antituberculosis drug p-aminosalicylic acid on the basis of serum albumin. *11th International Saint-Petersburg conference of Young Scientists,* **2015,** Saint-Petersburg, Russia

EXTRACURRICULAR ACTIVITIES

Hobbies

- Enjoy reading, programming and yoga

SKILLS

- Languages **English** (B2), **Kazakh** (bilingual), **Russian** (bilingual)
- Technical skills FTIR, UV-Vis, Nanosizer, ChemOffice, HyperChem, Java and Javascript.