

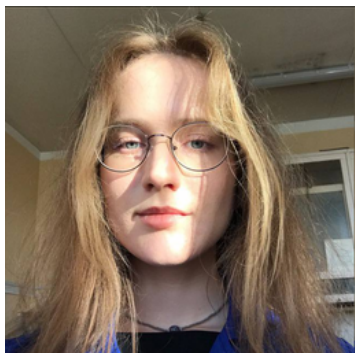
YAKOVETS POLINA

JUNIOR RESEARCHER

Email: yakov.polina.42@gmail.com

Date of birth: 23.07.2000

Place of birth: Minsk, Belarus



SCIENTIFIC INTERESTS :

Organic synthesis, fluorescent compounds, molecular probes, protein-ligand interactions, molecular docking, insect biochemistry, biotransformation of lipids, cytochromes P450, insect control methods, antimicrobial compounds

SKILLS :

- Organic synthesis
- Chromatography methods: TLC, column chromatography, basic skills HPLC, GC
- Spectrophotometry, spectrofluorimetry
- Microscopy
- NMR, MS spectra analysis
- *In silico* and data processing: molecular docking (AutoDock Vina), quantum calculations (Gaussian), permeability of molecules across membranes, wolfram mathematica
- Insect dissection, rearing

WORK EXPERIENCE:

2020 – 2022 | Junior Researcher Fellows-Intern of Laboratory of biochemistry of drugs, Research Institute for Physical Chemical Problems of the Belarusian State University, Minsk, Belarus

2023 – now | Junior Researcher of the Laboratory of biochemistry of drugs, Research Institute for Physical Chemical Problems of the Belarusian State University, Minsk, Belarus

2022 – now | Professor Assistant, Department of Macromolecular Compounds, Belarusian State University, Minsk, Belarus

EDUCATION :

2017 – 2022 | Faculty of Chemistry, Belarusian State University, specialty chemist-researcher (fundamental chemistry), Minsk, Belarus

2022 – 2023 | Master's Degree in Chemical Science. Faculty of Chemistry, Belarusian State University, Minsk, Belarus (*PhD exam in Chinese language*)

2023 – now | PhD student, Faculty of Chemistry, Belarusian State University, Minsk, Belarus

LANGUAGES :

- **Belarusian** (Native), **Russian** (Native)
- **Chinese** (Upper-Intermediate), **English** (Pre-Intermediate)

SELECTED PUBLICATIONS :

- Faletrov, Y., Karpushenkova, V., Zavalinich, V., Yakovets, P., Shkredava, A., Shkumatov, V. (2021). Journal of the Belarusian State University. Chemistry. 25-35. doi: 10.33581/2520-257X-2021-2-25-35.
- Faletrov, Y., Pozniak, H., Yakovets, P., Frolova, N., Shkumatov, V. (2022). Proceedings of the National Academy of Sciences of Belarus, Chemical Series. 58. 62-67. doi: 10.29235/1561-8331-2022-58-1-62-67.
- Belov, D., Faletrov, Y., Yakovets, P., Shkumatov, V. (2022). Journal of the Belarusian State University. Chemistry. 53-60. doi: 10.33581/2520-257X-2022-1-53-60.
- Yakovets, P., Staravoitava, V., Faletrov, Y., Shkumatov, V. (2022). Chem. Proc., 12, 87. doi: 10.3390/ecsoc-26-13574
- Faletrov Y., Yakovets P., Glinskaya (Pavlutc) L., Shkumatov, V.M. (2024). Proceedings of the 3rd International Electronic Conference on Biomolecules. 23–25 April 2024, MDPI: Basel, Switzerland.
- Faletrov Y., Yakovets P., Glinskaya L., Shkumatov, V. (2024). Proceedings of the 3rd International Electronic Conference on Biomolecules. 23–25 April 2024, MDPI: Basel, Switzerland.