

Curriculum vitae Patrik Nikolić

Core Skills

- In silico drug design** Scientific research experience in **computational biochemistry**, specifically **high-throughput virtual screening** campaigns using free and open-source software such as **RxDock**, **molecular dynamics** simulations using **GROMACS**, automating molecular docking workflows using **KNIME**, and small molecule libraries preparation using **RDKit**. Capable of modifying and creating own scripts in **Python** with **Jupyter**. Used **Matplotlib** for data visualizations.
- Translational research** **Drug development** and compound optimization in **oncology**, **pulmonology**, and **gastroenterology** field. Involved in **setting up**, **monitoring** and **closing** collaborations with **clinical** and **academic** institutions. Supported management team in **preparing and visualizing data** necessary for final presentations to clients and other interested parties.
- Sales specialist** Setting up and maintaining **client relationships**. Introducing novel technologies and new product lines to existing clients. Used **custom relationship management** skills. Worked on **public speaking** capabilities and **organized** conferences, workshops, and other events of similar scope.

Education

- 2013 – 2015** **Master of medicinal chemistry**, University of Rijeka Dept. of Biotechnology
Thesis title: *In silico* optimization of the first DNA-independent mechanism-based inhibitors of mammalian DNA methyltransferase Dnmt1
- 2010 – 2013** **University bachelor in biotechnology and drug design**, University of Rijeka Dept. of Biotechnology

Experience

Biomedica dijagnostika d.o.o. (Aug 2019 – Present)

- Life science and in vitro diagnostics sales and application specialist** Job activities:
- regular meetings with scientists, physicians, nurses, and other support members in the pharmaceutical industry, academia, public hospital systems, and private hospitals
 - participation in and organization of congresses
 - product demonstration and performing demonstrations for a selected portfolio

Fidelta d.o.o. (Dec 2016 – Jul 2019)

Associate scientist at Translational research and alliances department

Job activities:

- Clinical study site visits including qualification, initiation, monitoring, and close-out visits according to GCP, GDPR, and other relevant national legislation
- Writing of clinical study protocols with accompanying procedures and documents
- Managing communication between Clinical Investigators, clients, local regulatory authorities, and research teams
- Performing *in vitro* and *ex vivo* assays for drug development

Primevigilance d.o.o. (Jul 2015 – Sep 2016)

Pharmacovigilance (PV) associate

Job activities:

- Processing of Individual Case Safety Reports (ICSRs) – data entry in a database, performing follow-up activities, local regulatory safety reporting
- Medical writing activities – Periodic adverse drug experience reports (PADERs), Periodic safety update report/ Periodic benefit-risk evaluation report (PSURs/PBRERs)

Selected publications

1. Miletić, V., **Nikolić, P.** & Kinkela, D. Structure-based Molecular Docking in the Identification of Novel Inhibitors Targeting SARS-CoV-2 Main Protease. To appear in 2021 44th International Convention on Information, Communication and Electronic Technology (MIPRO) (2021).
2. Miletić, V., Odorčić, I., **Nikolić, P.** & Svedružić, Ž. M. In silico design of the first DNA-independent mechanism-based inhibitor of mammalian DNA methyltransferase Dnmt1. PLOS ONE 12(4), e0174410 (2017). [doi:10.1371/journal.pone.0174410](https://doi.org/10.1371/journal.pone.0174410)
3. **Nikolić, P.**, Miletić, V., Odorčić, I. & Svedružić, Ž. M. In Silico Optimization of the First DNA-Independent Mechanism-Based Inhibitor of Mammalian DNA Methyltransferase DNMT1. Epi-Informatics 113–153 (2016). [doi:10.1016/B978-0-12-802808-7.00005-8](https://doi.org/10.1016/B978-0-12-802808-7.00005-8)
4. **Nikolić, P.**, Miletić, V. & Svedružić, Ž. M. DNA Methyltransferase Dnmt1: Regulation of Substrate Selectivity. in 6th OEGMBT Annual Meeting 2014 Abstract Book (eds. Khassidov, A., Glaser, W. & Klimek, C.; Austrian Association of Molecular Life Sciences; Biotechnology; Servicebetrieb ÖH-Uni Graz GmbH, Vienna, Austria), 129 (2014).

Languages

Croatian	Native
English	Fluent
German	Basic
Italian	Basic