

Patrik Nikolić

CLINICAL RESEARCH ASSOCIATE · JUNIOR RESEARCHER

Marčelji 97, 51216 Viškovo, Croatia

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“The ladder of success is best climbed by stepping on the rungs of opportunity.”

Education

Department of Biotechnology, University of Rijeka

Rijeka, Croatia

MSC IN MEDICINAL CHEMISTRY

Oct. 2013 - July 2015

- Master thesis: *In silico* optimization of the first DNA-independent mechanism-based inhibitor of mammalian DNA methyltransferase DNMT1
- GPA: 4.8 out of 5.0
- Awarded *Summa cum laude*

Department of Biotechnology, University of Rijeka

Rijeka, Croatia

BSC IN BIOTECHNOLOGY AND DRUG RESEARCH

Oct. 2010 - July 2013

Area of expertise

Medicinal Chemistry

- Enzymology
- Molecular mechanisms in epigenetics
- *In silico* approaches for studies of structure and function of biomolecules
- Drug design based on enzyme structure-function principles

Clinical Research

- Clinical study site visits including qualification visits, initiation visits, monitoring visits, and close-out visits according to GCP and relevant internal SOPs
- Writing of clinical study protocols with accompanying procedures and documents
- Managing communication between Clinical Investigators, clients, local regulatory authorities and research teams

General Skills

- Clean drivers license - B category
- Computer proficiency both on Linux based and Windows based systems
- Professional proficiency in molecular modeling software - GROMACS, CP2K, AutoDock Vina, VMD, PyMol, UCSF Chimera, etc.

Experience

Fidelta Ltd.

Zagreb, Croatia

CLINICAL RESEARCH ASSOCIATE & ASSOCIATE SCIENTIST

Dec. 2016 - Present

- Clinical research
- *In vitro* pharmacology
- Translational research

VIB Laboratory for Mechanism of Cell Transformation, KU Leuven

Leuven, Belgium

SENIOR LABORATORY TECHNICIAN

Oct. 2016 - Nov. 2016

- Protein expression and purification
- Protein crystallization
- Development of small molecules for protein complex stabilization

PrimeVigilance Ltd.

PHARMACOVIGILANCE ASSOCIATE

- ICSR processing in ARISg 5 and ARISg 7 databases and performing follow-up activities
- Line listings and summary tabulations quality control
- Preparation of PADER, PSUR, PBRER, and Signal detection report drafts

Zagreb, Croatia

July 2015 - Sep. 2016

Biomolecular Structure and Function Laboratory, Department of Biotechnology, University of Rijeka

STUDENT RESEARCHER

- Developed novel *open source* drug design pipeline
- Characterized toxicity of current generation Dnmt1 inhibitors
- Novel Dnmt1 inhibitors are currently being synthesized and tested *in vitro*

Rijeka, Croatia

June 2013 - Sep. 2016

Department of Biotechnology, University of Rijeka

TEACHING ASSISTANT

- Undergraduate course of Chemoinformatics
- Graduate course of Computer Design Methods of Biologically Active Molecules (academic year 2014/2015)

Rijeka, Croatia

Oct. 2013 - July 2015

Biomolecular Structure and Function Laboratory, Department of Biotechnology, University of Rijeka

STUDENT RESEARCHER

- Measured Michaelis-Menten kinetics of novel drugs for pharmaceutical company "Jiva Pharmaceuticals"

Rijeka, Croatia

Jan. 2015 - Apr. 2015

Honors & Awards

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|-----------|--|------------------|
| 2015 | Summa cum laude , Graduate programme of Medicinal Chemistry, Department of Biotechnology, University of Rijeka | Rijeka, Croatia |
| 2006-2015 | Scholarship recipient , City of Viškovo scholarship for outstanding academic track, special achievements and high school grades | Viškovo, Croatia |
| 2014 | Fellowship recipient , Austrian Association of Molecular Life Sciences and Biotechnology (OEGMBT) fellowship | Vienna, Austria |

Selected publications, presentations and posters

***In silico* design of the first DNA-independent mechanism-based inhibitor of mammalian DNA methyltransferase DNMT1**

PLOS One

VEDRAN MILETIĆ, IVICA ODORČIĆ, PATRIK NIKOLIĆ, ŽELJKO M. SVEDRUŽIĆ

Apr. 2017

***In silico* design of the first DNA-independent mechanism-based inhibitor of mammalian DNA methyltransferase DNMT1**

Elsevier

PATRIK NIKOLIĆ, VEDRAN MILETIĆ, IVICA ODORČIĆ, ŽELJKO M. SVEDRUŽIĆ

Apr. 2016

- First author of the book chapter in the "Epi-Informatics: Discovery and Development of Small Molecule Epigenetic Drugs and Probes using Computational Approaches"

Open source formats in biomedical sciences

Document Freedom Day, Rijeka

PATRIK NIKOLIĆ

Mar. 2015

- Lecture on Document Freedom Day
- Invited speaker

DNA Methyltransferase 1 Dnmt1: Regional Structure Selectivity

6th OEGMBT Annual Meeting, Vienna

PATRIK NIKOLIĆ, VEDRAN MILETIĆ, ŽELJKO M. SVEDRUŽIĆ

Sep. 2014

- Lecture and poster

References

Cvijeta Bielen, MD

MEDICAL DIRECTOR OF PRIMEVIGILANCE LTD.

- email: cvijeta.bielen@primevigilance.com

Željko M. Svedružić, PhD

ASSISTANT PROFESSOR AT DEPARTMENT OF BIOTECHNOLOGY, UNIVERSITY OF RIJEKA.

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Vedran Miletić, PhD

POSTDOCTORAL RESEARCHER AT HEIDELBERG INSTITUTE OF THEORETICAL STUDIES

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