CURRICULUM VITAE

Assoc. Prof. Dr. Marko Novinec, univ. dipl. biokem.

Work address: University of Ljubljana
Faculty of Chemistry and Chemical Technology
Department of Chemistry and Biochemistry
Chair of Biochemistry
Večna pot 113
SI-1000 Ljubljana
Slovenia

e-mail address:
marko.novinec@fkkt.uni-lj.si

Telephone number:
+386 1 479 85 47

Date & place of birth:
4th May 1980, Maribor, Slovenia

Identifiers: ORCID: 0000-0003-1824-1649
ResearchGate: Marko_Novinec
Linkedin: marko-novinec-206a4a7a

EDUCATION AND ACADEMIC TITLES

2018 –	Associate professor of Biochemistry and Molecular Biology at the University of Ljubljana.
2013 – 2018	Assistant professor of Biochemistry and Molecular Biology at the University of Ljubljana.
2008	Doctoral degree in Biomedicine, module Biochemistry and Molecular Biology obtained at the University of Ljubljana Medical Faculty, Slovenia.
1999-2004	Undergraduate program Biochemistry at UL FCCT, Slovenia.

EMPLOYMENT

2013 –	Permanent faculty professorship position at the University of Ljubljana Faculty of Chemistry and Chemical Technology (UL FCCT), Department of Chemistry and Biochemistry, Chair of Biochemistry.
2009 - 2010	Postdoctoral fellow in the laboratory of prof. Antonio Baici, Department of Biochemistry, University of Zürich, Switzerland.
2009 - 2013	Assistant position at UL FCCT, Department of Chemistry and Biochemistry, Chair of Biochemistry.
2005-2008	PhD student with a National Scholarship for Young Researchers, Jožef Stefan Institute, Ljubljana, Slovenia.

RESEARCH EXPERIENCE

2005 –	Member of the Program Group »Proteolysis and its regulation« led by Prof. Boris Turk, PhD PhD (Slovenian Research Agency)
2011 – 2013	Postdoctoral research grant by the Slovenian Research Agency for the project »Design and characterization of allosteric modifiers of cysteine cathepsins«.
2007	Research visit in the laboratory of Prof. Rama Ranganathan, University of Texas Southwestern Medical Centre, Dallas, TX, USA.
2007, 2005	Research visits to the laboratory of Prof. Antonio Baici at the Department of Biochemistry, University of Zürich, Switzerland.

SELECTED PUBLICATIONS

Rebernik M, Snoj T, Klemenčič M & Novinec M (2019) Interplay between tetrameric structure, enzymatic activity and allosteric regulation of human dipeptidyl-peptidase I. *Arch. Biochem. Biophys*. 675, 108121.

Novinec M (2017) Computational investigation of conformational variability and allostery in cathepsin K and other related peptidases. *PLoS One* 12, e0182387.

Novinec M, Rebernik M & Lenarčič B (2016) An allosteric site enables fine-tuning of cathepsin K by diverse effectors. *FEBS Lett*. 590, 4507-4518.

Novinec M, Korenč M, Caflisch A, Ranganathan R, Lenarčič B & Baici A (2014) A novel allosteric mechanism in the cysteine peptidase cathepsin K discovered by computational methods. *Nat. Commun.* 5, 3287.

Novinec M, Kovačič L, Lenarčič B & Baici A (2010) Conformational flexibility and allosteric regulation of cathepsin K. *Biochem. J*. 429, 379-389.

Novinec M, Grass RN, Stark WJ, Turk V, Baici A, Lenarčič B (2007) Interaction between human cathepsins K, L, and S and elastins: mechanism of elastinolysis and inhibition by macromolecular inhibitors. *J. Biol. Chem*. 282, 7893-7902.

Novinec M, Kordiš D, Turk V & Lenarčič, B (2006) Diversity and evolution of the thyroglobulin type-1 domain superfamily. *Mol. Biol. Evol*. 23, 744-755.

REVIEWING ACTIVITIES

I regularly review manuscripts submitted to distinguished international journals including The Biochemical Journal, PLoS One, Molecules, Biomolecules, etc. So far, I reviewed about 30 scientific papers.

TEACHING AND SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS

Number of supervised students: 2 PhD students, 16 Master students, 16 Bachelor students at UL FCCT

2013 –	Faculty professor at UL FCCT. I teach courses in Protein Structure, Interactions of Biological Molecules and Biochemistry of Multicellular Systems (study programme Biochemistry, Bachelor and Master Levels), Molecular Basics of Life Sciences (study programmes Chemistry and Chemical Engineering, Bachelor Level) and Contemporary Computational Methods in Biochemistry (doctoral study programme Chemical Sciences – module Biochemistry).
2010	I taught the practical course of Biochemistry for Biology students at the Faculty of Mathematics and Life Sciences, University of Zürich, Switzerland.

PRIZES AND AWARDS

2014	Recipient of the Lapanje's prize awarded by the Slovenian biochemical society to young researchers for top-level scientific achievements.
2009	Best poster award at the 9th FEBS Young Scientist Forum in Prague, Czech Republic
2004	Prešeren award of the University of Ljubljana for outstanding diploma thesis (highest possible award for students from University of Ljubljana).

LANGUAGE SKILLS

Slovenian – first language, English – active, German – active

Marko Novinec

Ljubljana, 30th November 2019