



College of Inter-Faculty Individual Studies
in Mathematics and Natural Sciences
University of Warsaw
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Education

2014-present Ph.D. Studies at the College of Inter-Faculty Individual Studies in Mathematics and Natural Sciences, University of Warsaw

2014 **M.Sc., Organic Chemistry**, Faculty of Chemistry, University of Warsaw

- *The synthesis of an amidophosphate mono- and diphosphate 7-methylguanosine derivatives as the pronucleotides with increased cell membrane permeability*; supervised by Dr hab. Jacek Jemielity

2012 **B.Sc., Chemistry**, Faculty of Chemistry, University of Warsaw,

- *The optimization of a measuring method of an inhibited and uninhibited autoxidation kinetic parameters*, supervised by Dr hab. Grzegorz Litwinienko

2009-2014 Bachelor and Master Studies at the College of Inter-Faculty Individual Studies in Mathematics and Natural Sciences (MISMaP) including studies at the Faculty of Chemistry and the Faculty of Biology

Research Interests

- Nucleotide delivery
- Synthesis of fluorescently labelled nucleotide and their applications

Research Experience

2011-present

Member of the Jemielity Group:

- synthesis of nucleotide analogs bearing sulfate modification in the phosphate chain,
- synthesis of prodrug, mononucleotide cap analogs with amidophosphate modification within phosphate chain to obtain cap analogs with an increased cell-membrane permeability,
- synthesis of nucleotide analogs with a fluorescent tags.

Conferences

- 14 – 18.09.2014, Częstochowa, 57. Symposium PTChem i SITPChem, poster presentation: *Fosforoamidowe analogi 7-metyloguanozyny, jako pronukleotydy o zwiększonej przenikalności przez błonę komórkową,*
- 24 – 28.08.2014, Poznań, XXI International Roundtable on Nucleosides, Nucleotides and Nucleic Acids, poster presentation: *TOWARD THE IN VIVO DELIVERY OF mRNA CAP ANALOGUES: 7-METHYGUANOSINE CAP ANALOGUES CONTAINING TRYPTAMINE,*
- 16 – 20.09.2013, Siedlce, 56. Symposium PTChem i SITPChem, poster presentation: *Synteza analogów monofosforanu 7-metyloguanozyny, zawierających wiązania amidotiofosforanowe o potencjalnym działaniu antynowotworowym,*
- 24 – 28.06.2013, Vienna, 14th Tetrahedron Symposium, poster presentation: *Mononucleotide cap analogs modified within the phosphate chain are effective inhibitors of DcpS (Decapping Scavenger) enzyme ,*
- 17 – 19.05.2013, Białystok, Chemistry Student Microsymposium, poster presentation: *Synteza analogów nukleotydów zawierających wiązanie P-amidowe o potencjalnym działaniu antynowotworowym,*
- 16 – 20.09.2012, Białystok, 55. Symposium PTChem i SITPChem, poster presentation: *Synteza i właściwości fosfosiarczanowych analogów di- i trifosforanów nukleozydów.*

Other activities

October 2011 member of Student Scientific Association "Nukleotyd"