



Centre of New Technologies
University of Warsaw
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Education

- 2013 - present Ph.D. Studies at the College of Inter-Faculty Individual Studies in Mathematics and Natural Sciences (MISMaP), University of Warsaw
- June 2013 M.Sc. in Organic Chemistry, University of Warsaw, Faculty of Chemistry (with distinction)
- *mRNA 5' cap analogues with natural or modified triphosphate bridge containing carboxy-functionalized linkers – synthesis and applications*; supervised by Dr Jacek Jemielity
- 2012 - 2013 M.Sc. studies at the Faculty of Chemistry, University of Warsaw
- July 2012 B.Sc. in Organic Chemistry, University of Warsaw, Faculty of Chemistry
- *Synthesis of cap analogues containing amine-carboxylic linkers at ribose moiety - substrates for fluorescent labelling and nanomaterials functionalization*; supervised by Dr Jacek Jemielity
- 2009 - 2012 B.Sc. studies at the College of Inter-Faculty Individual Studies in Mathematics and Natural Sciences (MISMaP), University of Warsaw

Scientific Experience

- July 2012 Four weeks training at Dr Jacek Jemielity laboratory at Division of Biophysics, Institute of Experimental Physics, Faculty of Physics, University of Warsaw.
- July 2011
- July 2010
- October 2011 - June 2012 Volunteer at Division of Biophysics, Institute of Experimental Physics, Faculty of Physics, University of Warsaw.
- October 2010 - June 2011 Volunteer at Division of Biophysics, Institute of Experimental Physics, Faculty of Physics, University of Warsaw.
- *Chemical synthesis of dinucleotide cap analogues and their conjugates.*
- October 2009 - June 2010 Volunteer at Division of Biophysics, Institute of Experimental Physics, Faculty of Physics, University of Warsaw.
- *Chemical synthesis of dinucleotide cap analogues with morpholine modification at ribose of 7-methylguanosine.*

Teaching Experience

Teaching Assistant:

- Laboratory of Chemistry (*2nd year lab for B.Sc. students of Application of Physics in Biology and Medicine*)

- Bioorganic Chemistry (1st year class for B.Sc. students of Application of Physics in Biology and Medicine)
- Organic Chemistry (1st year class for B.Sc. students of Application of Physics in Biology and Medicine)

Publications

- Properties and applications of amino- or carboxy- functionalized mRNA 5'-cap analogues and their conjugates; Tomaszewicz Z. et al., *Chemistry of Nucleic Acid Components* (2014) 14, 387-388

Research Interests

- Design and synthesis of affinity resins for cap-binding proteins.
- Synthesis of highly functionalized mRNA cap analogues.
- Delivery of mRNA 5'end analogues into cells.

Distinctions and Awards

- Laureate of *Golden Medal of Chemistry* – national competition for the best bachelor thesis organised by Institut of Physical Chemistry, Polish Academy of Science