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Education

- 2012-present** **B.Sc., Chemistry**, Faculty of Chemistry, University of Warsaw
- 2012-2014** **M.Sc., Applications of Physics in Biology and Medicine**, Molecular Biophysics, Faculty of Physics, University of Warsaw
The synthesis of mRNA 5' end (cap) analogs selectively labeled with stable carbon, hydrogen and oxygen isotopes and their application for the development of HPLC-MS method for quantitation of biologically relevant cap derivatives; supervised by dr Joanna Kowalska
- 2009-2012** **B.Sc., Applications of Physics in Biology and Medicine**, Molecular Biophysics, Faculty of Physics, University of Warsaw
Tandem mass spectrometry analysis of small molecular nucleotides and their synthetic analogs; supervised by dr Joanna Kowalska

Scientific Experience

- 07-09.2014** Placement at Institute of Integrative Biology, University of Liverpool, Liverpool, UK
- 09.2013** Summer training at Nencki Institute of Experimental Biology, Polish Academy of Science, Warsaw, Poland
- 06.2011** Summer training at Institute of Mother and Child, Warsaw, Poland

Research Interests

- Tandem mass spectrometry
- Qualitative and quantitative analysis of nucleotides and their synthetic analogs

Conference Communications

- Chmieliński S., **Strzelecka D.**, Jemielity J., Kowalska J., Jakościowa analiza nukleotydów i ich analogów przy użyciu tandemowej spektrometrii mas, poster, 57. Zjazd PTChem-SITPChem, Częstochowa, Poland (14-18.09.2014).
- Chmieliński S., **Strzelecka D.**, Jemielity J., Kowalska J., The study of nucleotides and their analogs fragmentation by tandem mass spectrometry, poster, XXI Round Table On Nucleosides, Nucleotides

And Nucleic Acids, Poznań, Poland (24-28.08.2014).

- **Strzelecka D.**, Chmieliński S. , Jemielity J., Kowalska J., Electrospray ionization tandem mass spectrometry analysis of a broad spectrum of nucleotides and their synthetic analogs including potential therapeutic agents, poster, 15th Tetrahedron Symposium, London, United Kingdom (24-27.06.2014)
- Chmieliński S., **Strzelecka D.**, Warmiński M., Tomaszewicz Z., Jemielity J., Kowalska J., Badanie fragmentacji analogów nukleotydów o znaczeniu terapeutycznym za pomocą tandemowej spektrometrii mas, poster, 56. Zjazd PTChem-SITPChem, Siedlce, Poland (16-20.09.2013).
- **Strzelecka D.**, Chmieliński S., Jemielity J., Kowalska J., Tandem mass spectrometry analysis of nucleotides and their synthetic analogs, poster, 14th Tetrahedron Symposium, Vienna, Austria (25-28.06.2013).
- **Strzelecka D.**, Chmieliński S., Jemielity J., Kowalska J., Tandem mass spektrometry analysis of various nucleoside oligophosphates and their synthetic analogs, oral communication, II International Conference of Biophysics Students, Kraków, Poland (24-26.05.2013).
- **Strzelecka D.**, Jemielity J., Kowalska J., *Tandem mass spectrometry analysis of small molecular nucleotides and their synthetic analog*, poster, German Biochemical Societies Joint Meeting, Biochemistry for Health and Environment, Poznan, Poland (11-14.09.2012).

Courses

28.10.2014	<i>New trend in LC/MS/MS techniques</i> , workshops organized by AB Sciex
26.04.2013	<i>New method in gas chromatography, Mass spectrometry analysis of pesticides, LC and GC technique in pharmaceutical industry</i> , workshops organized by Perlen Technologies
15.12.2012	<i>Quantitative mass spectrometry analysis</i> , workshops organized by AB Sciex