Egle Katkeviciute

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Career objectives

I am a 3rd year PhD student at the University of Zürich working at the University Hospital Zürich. I am investigating the role of several metabolites and PTPN2 in the colorectal carcinoma. I am very committed to my lab work and I adapt to changing situations very quickly. My existing abilities have been developed in a range of environments including university studies, academic and industrial laboratories. I want to further develop my skills in preparation for the work as a postdoc and work independently as a researcher.

Education

University of Zurich/USZ (PhD studies) **2017-present**
'Investigation of New Potential Therapeutic Avenues for Colorectal Carcinoma'

University of Glasgow (Master's studies) **2012-2017**

"Rytas" grammar school **2008-2012**

Research Experience

PhD thesis project in Prof M. Scharl's lab **November 2017- ongoing**

I am researching the involvement of Protein Tyrosine Phosphatase Non-receptor type 2 (PTPN2) and several metabolites in colorectal carcinoma. Using flow cytometry, IHC, WB, RNAseq and other techniques, I am working out the mechanism that leads to the reduced tumour burden and improved immunotherapy response in mice.

Honours project in Doctor D. Xu's lab **September-November 2016**

I investigated the expression and function of IL-37 isoforms in THP1 cells. I induced inflammation using LPS and checked the expression changes of IL-37, its receptors and pro-inflammatory mediators using qPCR. Further studies included siRNA silencing and addition of recombinant IL-37A to measure the concentrations of the receptors and pro-inflammatory mediators in the absence and excess of IL-37.

Industrial placement year at MedImmune **July 2015-July 2016**

Successfully investigated the degradation pathway of novel protein drug candidates placed on thermal stability during product development. Impurity identification was performed using the novel GELFREE technology, Mass Spectrometry and Bioanalyzer. Challenges such as removal of SDS and other impurities were overcome by novel approaches and innovative experiments. I have worked in the QC lab, which required to work to GLP standards and to perform assays according to SOPs.

Summer placement in Professor R. J. Cogdell's lab **Summer 2014**

I investigated th e differential expression of LH2 light harvesting complex proteins in wild type and a *pucβA* gene mutant strain bacteria. Work was performed in sterile conditions. Proteins from WT and mutant bacteria were purified using sucrose centrifugation and UV spectroscopy was used to determine the changes of protein expression.