



From Basic to Translational Research in Oncology



**Report on the visit of Eliza Głodkowska-Mrówka in the Department of
Internal Medicine III, University of Ulm, Germany
within 7PR21/BASTION/WP1 (Twinning)**



Prof. Lars Bullinger's team and Eliza Glodkowska-Mrowka in University of Ulm.

From July 8th until September 7th, 2013 I visited the Department of Internal Medicine III in University of Ulm, Germany. This visit was coordinated under the twinning agreement between the Medical University of Warsaw and the University of Ulm in WP1 (Task 1.1). During my stay in Ulm, I conducted research projects in the field of experimental hematology together with a research team led by prof. Lars Bullinger.

Professor Bullinger is an attending physician at the Department of Internal Medicine III in University of Ulm. He is also a leader of successful scientific team focused on molecular genetics of hematological malignancies. His research group is interested mainly in pathogenesis of acute myeloid leukemia and identification of prognostic markers in various types of leukemia. His research group is proficient in using advanced molecular biology techniques including: gene expression profiling (cDNA, Affymetrix, RNA sequencing), DHPLC-based mutation screening (WAVE System), Matrix-CGH, LOH analysis (SNP microarrays) and miRNA expression profiling (oligo microarray, real-time PCR).



Eliza Glodkowska-Mrowka at the entrance to the University Hospital, University of Ulm

The main goal of my visit to the University of Ulm was to perform a series of gene expression profiling experiments that are a part of our collaborative project on drug response of chronic lymphocytic leukemia cells. I had a unique possibility to get familiar with sophisticated laboratory techniques, such as gene expression microarrays and Next Generation Sequencing (NGS) methods including RNA sequencing. Importantly, I actively participated in analysis of data obtained from high-throughput sequencing and I was able to improve my knowledge on this crucial stage of NGS experiments.

Apart from valuable experience in molecular biology techniques, my visit in University of Ulm gave me a chance to participate in scientific meetings with many teams working in

the Department of Internal Medicine III as well as with invited speakers from abroad. Moreover, my visit was an excellent opportunity to tighten the cooperation between our groups.