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**BASTION – FROM BASIC TO
TRANSLATIONAL RESEARCH
IN ONCOLOGY**

**Report on the visit of Małgorzata Bobrowicz in the Laboratory of
Molecular Biology and Immunology of CLL, University of Cologne, Clinic I
of Internal Medicine, Cluster of Excellence in Aging Research, Cologne,
Germany within 7PR21/BASTION/WP1 (Twinning)**



**Małgorzata Bobrowicz at the entrance of cell culture room in the Laboratory of
Molecular Biology and Immunology led by Prof Michael Hallek**

Between 20th June and 12th August 2015 I revisited the Laboratory of Dr. Lukas Frenzel in University of Cologne. Just at the beginning of my stay I received excellent news concerning the ETIUDA scholarship funded by National Science Center for which I applied in order to continue collaboration with Dr. Frenzel. I received the scholarship and our common project was classified as the sixth in rank out of thirty one awarded projects. Thanks to this scholarship I will continue the research project initiated during BASTION programme and come for a 3-months internship to Cologne in summer 2016. During my second stay in Dr. Lukas Frenzel lab I performed experiments assessing the influence of palmitoylation on the

efficacy of various anti-tumor modalities used in the therapy of CLL. I tested well established and commonly used therapeutics as well as novel drugs. I focused mainly on the therapies that induced apoptosis which I assessed with flow cytometry. Thanks to my colleagues from Dr.Frenzel Team I gained expertise in the analysis of apoptosis and I was also given a very valuable introduction on the technical aspects of this method. This experience increased my confidence in using flow cytometry in the analyses of cytotoxicity. Moreover, having identified the therapies influenced by the palmitoylation in CLL cells I performed experiments aiming at elucidating the mechanisms of sensitization of CLL cells to the selected modalities, mostly by Western blotting. What is more, working with DunjaBaatout I learned the methods of exosome isolation and assessed the influence of palmitoylation on the secretion of these complexes.

My stay in Dr.Frenzel laboratory, apart from work in laboratory, was for me an occasion to participate in numerous scientific meetings and lectures concerning the biology of CLL, but also other topics of research performed in CECAD such as metabolism in aging, diabetes, DNA damage responses in age-related diseases and mitochondrial dysfunction in neurodegeneration. Those talks were to me a source of inspiration for my future research.

To conclude, I find the possibility of collaborating with Dr.Lukas Frenzel Team a very influencing experience of utmost importance for my future career. During my 2 visits in Laboratory of Molecular Biology and Immunology of CLL I learned many new methods and participated in discussions that broaden my horizons. I am looking forward to a next visit in Dr.Frenzel laboratory.