



**Department of Immunology  
Medical University of Warsaw  
Banacha 1a, 2-097 Warsaw, Poland  
Tel. +48 22 599 21 98**



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

**Report on the stay of Dr. Malgorzata Bajor at the Cancer Biology and  
Therapeutics Lab, Conway Institute, University College Dublin, Dublin, Ireland  
within the 7PR21/BASTION/WP1 (Twinning, T1.1)**

Between 6<sup>th</sup> and 20<sup>th</sup>, May 2015 I had visited Laboratory of Prof. William M. Gallagher, working at the Cancer Biology and Therapeutics Lab, Conway Institute, University College Dublin, Dublin, Ireland. A major focus of the CBT Lab is the identification and validation of molecular determinants of tumor progression in breast cancer and melanoma. Moreover, the CBT Lab has a particular interest in the identification and validation of candidate prognostic and predictive biomarkers in oncology, with emphasis on the translation of transcriptomic and proteomic datasets into clinically relevant assays.

The main goal of my two-week stay in Dublin was to study effects of dysfunction of thiol-dependent antioxidant enzyme system on the oncogene-dependent signaling in breast cancer under the hypoxic conditions.

During my stay I have an opportunity to discuss my experimental plans with Prof. Cormac Taylor, a Principal Investigator in Systems Biology Ireland, and Professor of Cellular Physiology in UCD School of Medicine & Medical Science at University College Dublin, who is a leading authority in the field of hypoxia research. I have set up experimental conditions and carried out preliminary studies for my ongoing project related to the determination of the role for thiol-dependent antioxidant enzymes in estrogen-receptor positive breast cancer.

The most valuable benefit was an opportunity to consult the research plan with Prof. Gallagher and Prof. Taylor. Furthermore, the visit helped to strengthen scientific contacts and plan further collaboration between Conway Institute, University College Dublin and Department of Immunology, Medical University of Warsaw.



Dr Malgorzata Bajor at the Conway Institute, University College Dublin in Ireland during cell culture work in the hypoxia chamber glove box.