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

**Report on the visit of Dr Marzena Łazarczyk at the *Center for Molecular  
Medicine, Karolinska Institutet* (Stockholm, Sweden),  
within the 7PR21/BASTION/WP1 (Twinning, T1.4)**



**Karolinska  
Institutet**



From 23rd October till 21st December 2014 I had visited the Center for Molecular Medicine and joined the Cell and Molecular Immunology research team headed by Professor Cecilia Söderberg-Nauclér for mutual sharing of vision, ideas, scientific knowledge and laboratory experience. Professor C. Söderberg-Nauclér research core interests are focused on understanding of how cytomegalovirus (CMV) contributes to the development of different pathological conditions, i.e. autoimmune, vascular and cancer diseases and identifying new treatment targets that are likely to be considered in new antiviral-based therapies of the disorders with CMV infection background.

I had an excellent opportunity to get familiar with established laboratory techniques and fixed protocols to implement them in my research project on chemokine CCL9 involvement in colon cancer progression. Throughout my stay I conducted *in vitro* experiments with the use of CCL9-enhanced mouse colon cancer CT26 cell line generated at the host Laboratory. The methods I got acquainted and trained were employed to study the cancer cells' ability to proliferate, invade and migrate when their *ccl9* gene is overexpressed. To check the CCL9 expression at proteomic level, I used ELISA to measure CCL9 amount released to culture medium. By MTT assay and spectroscopy analysis I tested cell proliferation, whereas invasion and migration were determined by scratch assay. All the preliminary results received in close collaboration of host team members constitute a part of my research project co-supervised by Dr Piotr Religa and submitted to the National Science Centre in Poland in December 2014 for Sonata competition.

I attended laboratory meetings, lectures and seminars (e.g. half-time seminar on CMV' s miRNA given by Ph.D candidate, Abdul-Aleem Mohammad), got valuable new information on several aspects concerning solutions to laboratory space organization at international, excellent level as well as on working conditions of research team functioning in a host laboratory environment.

