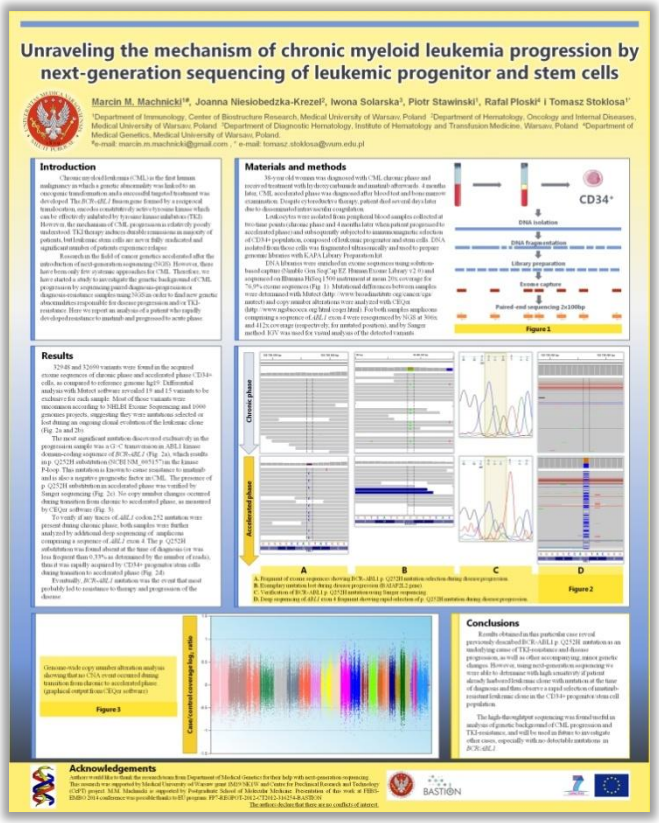
Report on active participation in joint FEBS-EMBO 2014 Conference

30 August – 4 September 2014 Marcin Machnicki

The FEBS-EMBO 2014 conference took place at the Palais des Congrès in Paris, France. The meeting was organized in place of normally separate annual conferences of two organizations, The Federation of European Biochemical Societies and EMBO - Excellence in life sciences, on the occasion of their 50th anniversaries and the centennial of the French Society for Biochemistry and Molecular Biology. It was therefore an unique opportunity to share ideas and results between different scientific communities. Fields covered by the conference included epigenetics, cancer research, bioinformatics or immunology, but several lectures focused on social, environmental or scientific carrier-oriented issues.

I had a pleasure to present a poster during "Stem cells & metastasis" session:



Title: "Unraveling the mechanism of chronic myeloid leukemia progression by next-generation sequencing of leukemic progenitor and stem cells "

Authors: Marcin M. Machnicki, Joanna Niesiobedzka-Krezel, Iwona Solarska, Piotr Stawinski, Rafal Ploski, Tomasz Stoklosa.

In the poster we demonstrate initial results of our research project focused on genetic changes associated with chronic myeloid leukemia progression.

Using exome-sequencing we have shown that *BCR-ABL1* kinase domain mutation can be acquired very rapidly and cause progression of the disease even if no other point mutations or copy number alterations are acquired concurrently.

We therefore demonstrated the power of high-throughput sequencing in studying chronic myeloid leukemia progression.