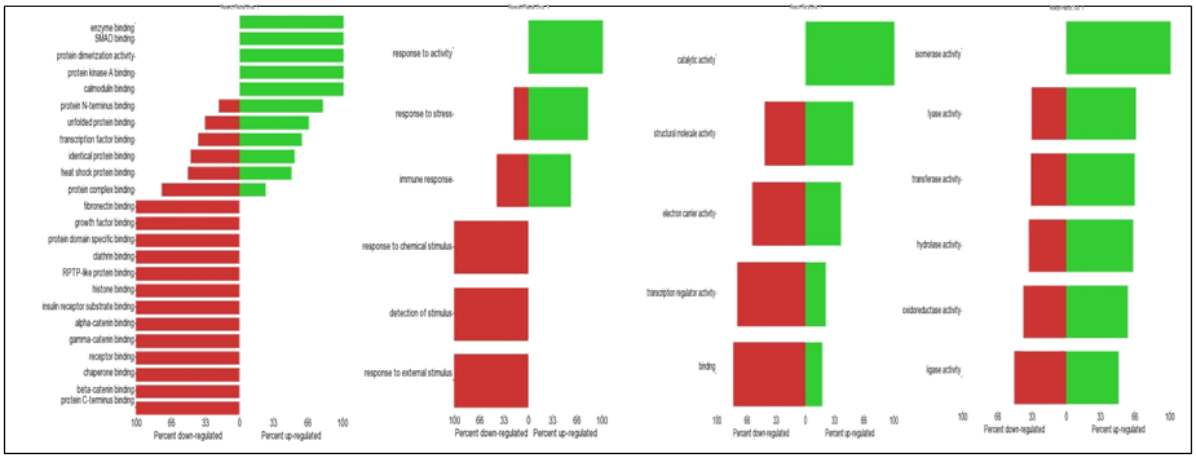
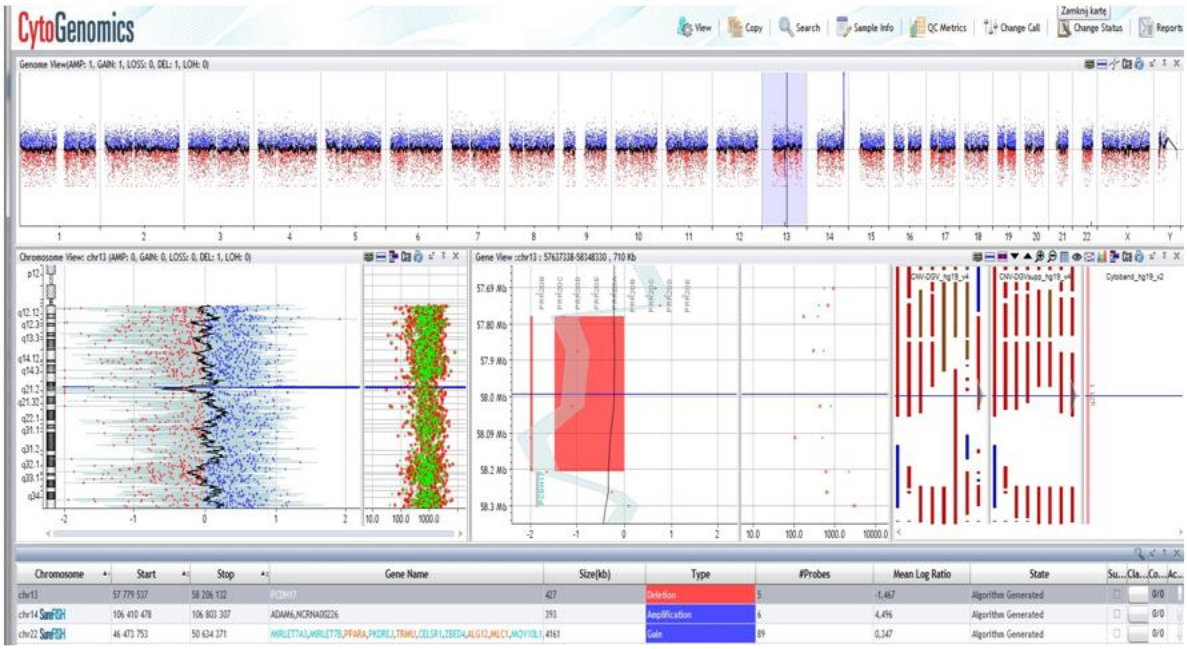


Pathway	Up-regulated genes	Down regulated genes
Inflammation mediated by chemokine and cytokine signaling	*RRAS2, ITGB2, PRKACB, ITGAM, PTGS2*	*PRKCZ, MYLK*
Wnt signaling	*TCF7, MYCN*	*CTBP2, PRKCZ, PCDH9, FZD2*
Angiogenesis	*TCF7*	*EFNB2 , PRKCZ, FZD2*
Gonadotropin releasing hormone receptor	*TCF7*	*DUSP1, PRKCZ, ANXA5*
Endothelin signaling	*PRKACB, PTGS2*	*PRKCZ*
Integrin signalling	*ITGB2 , ITGAM, ACTN1*	-
T cell activation	*CD28, CD3D*	*HLA-DOA*

Comperative genomic analysis



Highlights:

I. Groups of genes are primarily responsible for a genetic lack of sensitivity to CP in AL.
II. Recurrent chromosomal aberrations are associated with *in vitro* resistance to CP.
III. Simultaneous decrease in expression for *ABCG1*, *PCDH9*, and overexpression for *DUSP2*, *ITGAM*, *ANXA1*, *FGR*, *SERPINA1*, *HK3* and *RETN* were found in the CP- resistant blasts.

IV. Overexpression of genes on chromosomes 1,2,10,12 and a reduction in the level of expression for genes located on chromosomes 20,21,22 is correlated with CP-resistance.