**The role of signal transduction driver genes in developing an altered energy metabolism in cancer cells**

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We focused on TP53, the most commonly mutated gene in solid tumors. Unfortunately we did not accessed sufficient number of samples for glioblastoma, therefore we worked with breast cancer data. When investigating genes correlated to energy metabolism and TP53 mutation state, an over-representation of genes involved in glycolysis and gluconeogenesis as well as regulators of energy metabolism were identified. We started to investigate a selected set of genes in cell culture studies. We submitted two abstracts to the MAGYOT and MOT congresses (planned: two). We are working on a Hungarian review and an English meta-analysis manuscripts (planned: one Hungarian manuscript).