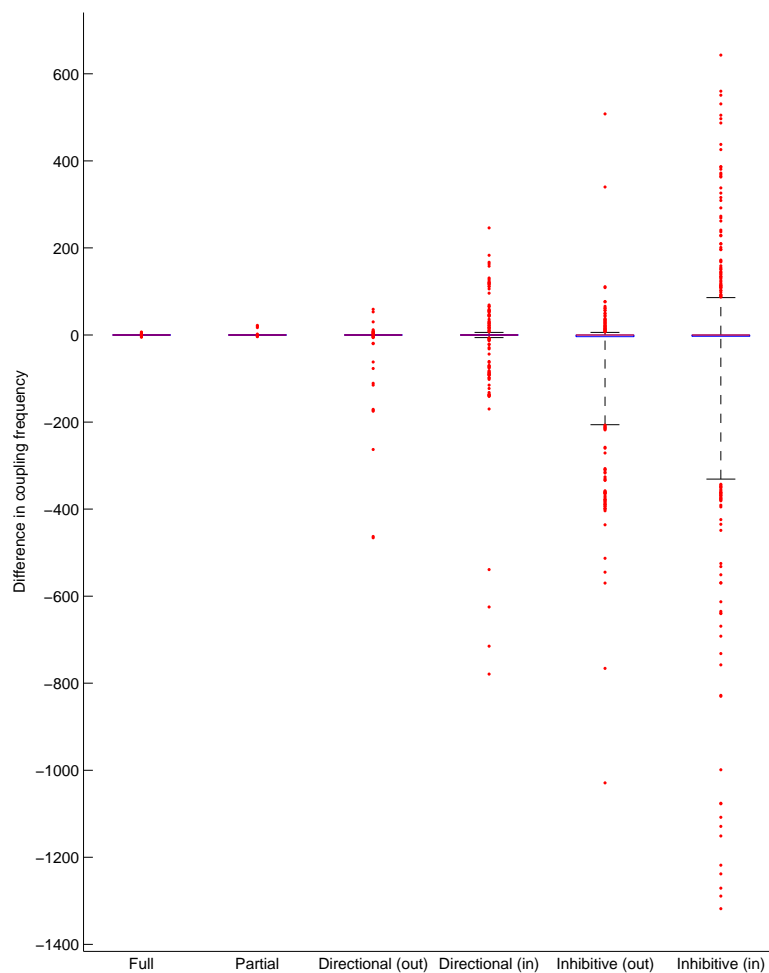


Supplemental Figure 5



Change in coupling frequency of metabolic switches in cancer vs. healthy networks. Box plot of the differences in the number of couplings of critical driver reactions in cancer compared to their number of couplings in the corresponding healthy tissue networks. Only reactions which are critical drivers in a cancer network and redundant in the corresponding healthy tissue network (*metabolic switches*) are considered. Positive values indicate a larger, negative values indicate a smaller number of couplings in the corresponding cancer network. For the non-symmetric coupling types, (out/in) refers to the coupling of the driver reaction to/from other reactions. Red lines indicate the median, blue boxes the 5th and 95th percentiles, black whiskers the maximum absolute non-outlier value, and red dots indicate outliers. The number of full and partial couplings of critical driver reactions in cancer is largely similar in the corresponding healthy networks, while the number of directional and inhibitive couplings varies.