**Supplementary Figure 1**

Quantification of each marker (TFF2, DCLK1, GC ratio and LGR5) at a close (<3mm) and distal (>3mm) site to the neighboring dysplastic tissue. Multiple slides such as the representative one where counted to detect tissue as far as possible away from the dysplastic lesion in order to exclude a specific effect of the tumor tissue on the direct adjacent microenvironment. No significant differences were observed.

