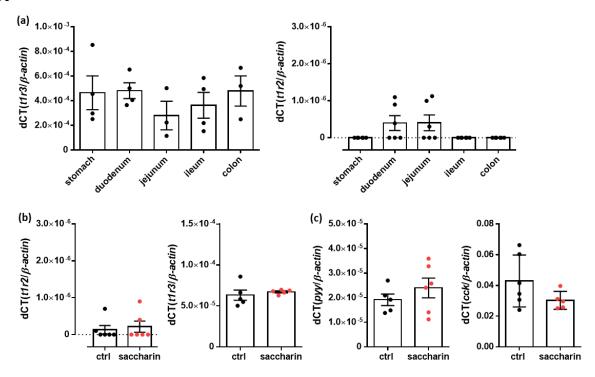
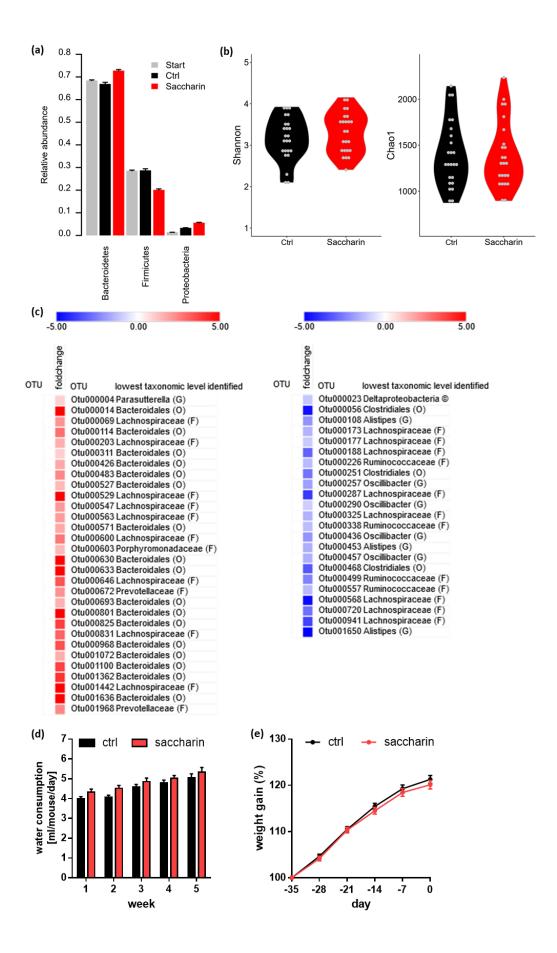
Supplement



Supplementary Figure 1: T1r2 and t1r3 expression in the murine intestine. Expression of t1r3 and t1r3 was tested in (a) different sections of the intestinal tract and in (b) proximal jejunum section of seven days saccharin-treated and untreated mice; n=4 and n=6 respectively. Samples with values of zero did not show any expression beyond the detection limit. (c) β -actin normalized pyy and cck mRNA expression levels in biopsies from the proximal jejunum from saccharin-supplemented and ctrl mice; n=6. Values are shown as mean \pm SEM.



Supplementary Figure 2: Microbiome analysis, water consumption and weight development of saccharin supplemented or ctrl mice. (a) Relative abundance of phyla, (b) alpha diversity and (c) indicator species in fecal samples obtained after five weeks with or without saccharin supplementation. Heatmap was generated from indicator species analysis with the Morpheus software [48]. In red, taxa being upregulated, in blue, taxa being downregulated in saccharin-treated compared to ctrl mice. Indicator species are listed from most abundant to least abundant OTU. O, order; F, family; G, genus. Start n=48, ctrl and saccharin n=24. (d) Water consumption and (e) weight development of mice which were supplemented for five weeks with 0.1 mg/ml saccharin via the drinking water or left untreated; n=12 and n=36 from two independent experiments, respectively. (a), (d), and (e) Values are shown as mean ± SEM. (b) Values are shown as violin plot.