Supplement 2

**Figure S2.1:** Genotype-specific fitness response surfaces illustrating the effects of protein and carbohydrate intake on male and female fitness. High fitness values are represented by red and low fitness values represented by blue colours. Fitness values are relative to the overall hemiclonal population fitness. If a hemicline has relative low fitness compared to all other lines, then the surface colour will be mostly blue (regardless of where the individual hemicline fitness peak is). Black dots are individual data points of consumption for the given sex.