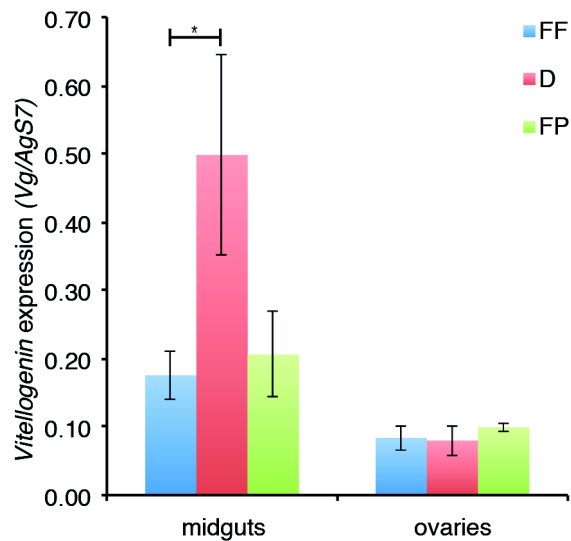


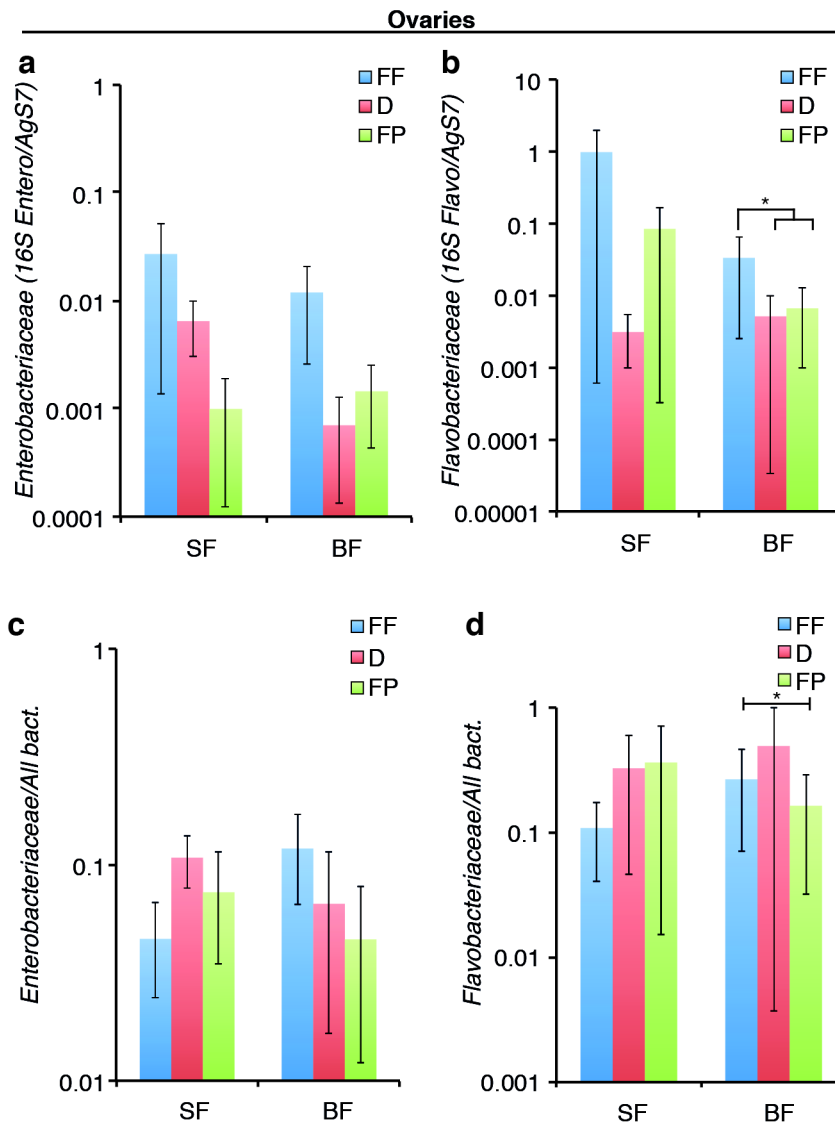
Larval diet affects mosquito development and permissiveness to *Plasmodium* infection – Supplementary information

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Supplementary figures



Supplementary figure S1. Impact of larval diet on *Vitellogenin* expression after blood meal. qRT-PCR analysis of *Vitellogenin* expression in the midguts and ovaries of female mosquitoes 24 h after a bloodmeal. Transcript quantifications are normalised to *AgS7*. Data show averages (\pm s.e.m.) from 3 independent replicates and statistical analyses are ANOVA following lmer model fitting, * - $p < 0.05$.



Supplementary figure S2. Impact of larval diet on the composition of the ovary microbiota. Family-specific bacterial load in adult ovaries normalised to *AgS7* (**a-b**) and to the total bacterial load (**c-d**), quantified by qRT-PCR on family specific *16S rRNA* amplicons. Data show averages (\pm s.e.m.) from 3 independent replicates and statistical analyses are ANOVA following lmer model fitting, * - $p < 0.05$.

Supplementary table

Gene	Sequence F	Sequence R
S7	GTGCGCGAGTTGGAGAAGA	ATCGGTTTGGGCAGAATGC
16S	TCCTACGGGAGGCAGCAGT	GGACTACCAGGGTATCTAATCCTGTT
16S, <i>Enterobacteriaceae</i>	CGTGCTACAATGGCATATACAAAGAGAAG	AGCATTCTGATCTACGATTACTAGCGATT
16S, <i>Flavobacteriaceae</i>	TAAGGTTGAAGTGGCTGGAATAA	GTCCATCAGCGTCAGTTAAGACT
16S, <i>Acetobacteraceae</i>	GTGCCGATCTCTAAAAGCCGTCTCA	TTCGCTCACCGGCTTCGGGT
<i>Vitellogenin</i>	CTGGTCTATCCGTTTCGCCTC	GACGTCGCTGTTGCGAATAC
<i>GAPDH - Spodoptera frugiperda</i>	CGGTGTCTTCACAACCACAG	GAGAGGAGCGAGACAGTTGG

Table S1 – Primer sequences used in qRT-PCR analysis of bacterial microbiota.