

Tab. 4: Statistical analysis of gene expression data. The variance of expression levels of each gene was calculated with Relative Expression Software Tool (REST 2009), based on the primer efficiencies and overall maximal/minimal Ct values providing the variance of each primer product across all samples and a pairwise comparisons against the control treatment. To correct for multiple comparisons we used the false discovery rate (FDR);Benjamini Hochberg. Shown are the effects of the factors (a) priming (none, step, genetic, both) and (b) mating order (none, second, first, both). * = significant after FDR

Gene	treatment	mean expression	P	treatment	mean expression	P
<i>attacin</i>	stepfather	1,058	n.s.	first	1,04	n.s.
<i>attacin</i>	father	1,071	n.s.	second	1,145	n.s.
<i>attacin</i>	both	0,743	n.s.	both	0,743	n.s.
<i>coleoptericin</i>	stepfather	0,918	n.s.	first	0,945	n.s.
<i>coleoptericin</i>	father	1,017	n.s.	second	1,015	n.s.
<i>coleoptericin</i>	both	1,002	n.s.	both	1,04	n.s.
<i>GNBP</i>	stepfather	0,908	n.s.	first	0,741	n.s.
<i>GNBP</i>	father	1,024	n.s.	second	1,197	n.s.
<i>GNBP</i>	both	1,04	n.s.	both	1,002	n.s.
<i>hsp68</i>	stepfather	0,767	n.s.	first	0,846	n.s.
<i>hsp68</i>	father	1,072	n.s.	second	1,003	n.s.
<i>hsp68</i>	both	0,753	n.s.	both	0,753	n.s.
<i>hsp90</i>	stepfather	0,831	n.s.	first	0,789	0,031
<i>hsp90</i>	father	0,89	n.s.	second	0,931	n.s.
<i>hsp90</i>	both	0,763	n.s.	both	0,763	n.s.
<i>imd</i>	stepfather	1,042	n.s.	first	0,992	n.s.
<i>imd</i>	father	0,958	n.s.	second	1,053	n.s.
<i>imd</i>	both	0,865	n.s.	both	0,865	n.s.
<i>lysozyme</i>	stepfather	0,877	n.s.	first	0,903	n.s.
<i>lysozyme</i>	father	0,996	n.s.	second	0,951	n.s.
<i>lysozyme</i>	both	0,95	n.s.	both	0,95	n.s.
<i>nimB</i>	stepfather	1,08	n.s.	first	1,041	n.s.
<i>nimB</i>	father	1,15	n.s.	second	1,368	n.s.
<i>nimB</i>	both	1,11	n.s.	both	1,11	n.s.
<i>PGRP</i>	stepfather	1,473	0,026	first	1,424	0,024
<i>PGRP</i>	father	1,513	0,028	second	1,557	0,012
<i>PGRP</i>	both	1,437	0,044	both	1,437	0,037
<i>proPO</i>	stepfather	0,881	n.s.	first	0,91	n.s.
<i>proPO</i>	father	0,919	n.s.	second	0,903	n.s.
<i>proPO</i>	both	0,868	n.s.	both	0,868	n.s.

<i>thaumatin</i>	stepfather	0,918	n.s.	first	0,934	n.s.
<i>thaumatin</i>	father	0,913	n.s.	second	0,855	n.s.
<i>thaumatin</i>	both	0,844	n.s.	both	0,844	n.s.
<i>toll</i>	stepfather	0,932	n.s.	first	0,956	n.s.
<i>toll</i>	father	0,97	n.s.	second	1,004	n.s.
<i>toll</i>	both	0,968	n.s.	both	0,968	n.s.