

Supplementary Information 2. Results of the ANOVAs testing the effects of (data presented in Figure 1) of epinephrine on the amount of hydrogen peroxide (H₂O₂), glutathione reduced (GSH), and catalytic activity of catalase (CAT), glutathione oxidase (GPx) and carboxyl esterase hydrolase (CEH), measured in tissue homogenates (fat body, cuticle and gut) and hemolymph of 3rd instars of the flesh fly *Sarcophaga dux*.

Df denotes degrees of freedom.

		Sum of Squares	df	Mean Square	F	P
H2O2 <i>Fat body</i>	Between Groups	5.920	3	1.973	103.907	0.000
	Within Groups	.152	8	.019		
	Total	6.072	11			
H2O2 <i>Cuticule</i>	Between Groups	2268.279	3	756.093	114.980	0.000
	Within Groups	52.607	8	6.576		
	Total	2320.886	11			
H2O2 <i>Gut</i>	Between Groups	1540.043	3	513.348	676.721	0.000
	Within Groups	6.069	8	.759		
	Total	1546.112	11			
H2O2 <i>Hemolymph</i>	Between Groups	1005.054	3	335.018	192.020	0.000
	Within Groups	13.958	8	1.745		
	Total	1019.011	11			
GSH <i>Fat body</i>	Between Groups	39.479	3	13.160	53.280	0.000
	Within Groups	1.976	8	.247		
	Total	41.455	11			
GSH <i>Cuticule</i>	Between Groups	109.471	3	36.490	330.517	0.000
	Within Groups	.883	8	.110		
	Total	110.354	11			
GSH <i>Gut</i>	Between Groups	.336	3	.112	.495	0.696
	Within Groups	1.810	8	.226		
	Total	2.146	11			
GSH <i>Hemolymph</i>	Between Groups	169.167	3	56.389	206.495	0.000
	Within Groups	2.185	8	.273		
	Total	171.352	11			

CAT <i>Fat body</i>	Between Groups	621.864	3	207.288	2.067	0.183
	Within Groups	802.097	8	100.262		
	Total	1423.961	11			
CAT <i>Cuticle</i>	Between Groups	6027.956	3	2009.319	31.653	0.000
	Within Groups	507.830	8	63.479		
	Total	6535.786	11			
CAT <i>Gut</i>	Between Groups	4643.563	3	1547.854	86.847	0.000
	Within Groups	142.582	8	17.823		
	Total	4786.145	11			
CAT <i>Hemolymph</i>	Between Groups	213.737	3	71.246	1.583	0.268
	Within Groups	360.018	8	45.002		
	Total	573.755	11			
GPx <i>Fat body</i>	Between Groups	59.956	3	19.985	136.429	0.000
	Within Groups	1.172	8	.146		
	Total	61.128	11			
GPx <i>Cuticle</i>	Between Groups	240.543	3	80.181	686.187	0.000
	Within Groups	.935	8	.117		
	Total	241.478	11			
GPx <i>Gut</i>	Between Groups	55.262	3	18.421	172.489	0.000
	Within Groups	.854	8	.107		
	Total	56.117	11			
GPx <i>Hemolymph</i>	Between Groups	35.707	3	11.902	63.227	0.000
	Within Groups	1.506	8	.188		
	Total	37.213	11			
CEH <i>Fat body</i>	Between Groups	22.501	3	7.500	91.799	0.000
	Within Groups	.654	8	.082		
	Total	23.155	11			
CEH <i>Cuticle</i>	Between Groups	32.367	3	10.789	15.277	0.001
	Within Groups	5.650	8	.706		
	Total	38.017	11			
CEH <i>Gut</i>	Between Groups	12.811	3	4.270	45.188	0.000
	Within Groups	.756	8	.094		

	Total	13.567	11			
CEH	Between Groups	3.586	3	1.195	63.689	0.000
<i>Hemolymph</i>	Within Groups	.150	8	.019		
	Total	3.736	11			