Supplementary Information 2. Results of the ANOVAs testing the effects of (data presented in Figure 1) of epinephrine on the amount of hydrogen peroxide (H_2O_2), 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
Between Groups	5.920	3	1.973	103.907	0.000
Within Groups	.152	8	.019		
Total	6.072	11			
Between Groups	2268.279	3	756.093	114.980	0.000
Within Groups	52.607	8	6.576	1	
Total	2320.886	11			
Between Groups	1540.043	3	513.348	676.721	0.000
Within Groups	6.069	8	.759		
Total	1546.112	11			
Between Groups	1005.054	3	335.018	192.020	0.000
Within Groups	n Groups 13.958 8 1.745				
Total	1019.011	11			
Between Groups	39.479	3	13.160	53.280	0.000
Within Groups	1.976	8	.247		
Total	41.455	11			
Between Groups	109.471	3	36.490	330.517	0.000
Within Groups	.883	8	.110		
Total	110.354	11			
Between Groups	.336	3	.112	.495	0.696
Within Groups	1.810	8	.226		
Total	2.146	11			
Between Groups	169.167	3	56.389	206.495	0.000
Within Groups	2.185	8	.273		
Total	171.352	11			
	Within Groups Total Between Groups Within Groups Within Groups Within Groups Total Between Groups	Between Groups 5.920 Within Groups .152 Total 6.072 Between Groups 2268.279 Within Groups 52.607 Total 2320.886 Between Groups 1540.043 Within Groups 6.069 Total 1546.112 Between Groups 1005.054 Within Groups 13.958 Total 1019.011 Between Groups 39.479 Within Groups 1.976 Total 41.455 Between Groups 109.471 Within Groups .883 Total 110.354 Between Groups .336 Within Groups 1.810 Total 2.146 Between Groups 169.167 Within Groups 2.185	Between Groups 5.920 3 Within Groups .152 8 Total 6.072 11 Between Groups 2268.279 3 Within Groups 52.607 8 Total 2320.886 11 Between Groups 1540.043 3 Within Groups 6.069 8 Total 1546.112 11 Between Groups 1005.054 3 Within Groups 13.958 8 Total 1019.011 11 Between Groups 39.479 3 Within Groups 1.976 8 Total 41.455 11 Between Groups 109.471 3 Within Groups .883 8 Total 110.354 11 Between Groups .336 3 Within Groups 1.810 8 Total 2.146 11 Between Groups 169.167 3 Within Groups 2.185 8	Between Groups 5.920 3 1.973 Within Groups .152 8 .019 Total 6.072 11 Between Groups 2268.279 3 756.093 Within Groups 52.607 8 6.576 Total 2320.886 11 Between Groups 1540.043 3 513.348 Within Groups 6.069 8 .759 Total 1546.112 11 Between Groups 1005.054 3 335.018 Within Groups 13.958 8 1.745 Total 1019.011 11 11 Between Groups 39.479 3 13.160 Within Groups 1.976 8 .247 Total 41.455 11 Between Groups 109.471 3 36.490 Within Groups .883 8 .110 Total 110.354 11 11 Between Groups .336 3 <td>Between Groups 5.920 3 1.973 103.907 Within Groups .152 8 .019 .019 Total 6.072 11 .019 .019 Between Groups 2268.279 3 756.093 114.980 Within Groups 52.607 8 6.576 .0576</td>	Between Groups 5.920 3 1.973 103.907 Within Groups .152 8 .019 .019 Total 6.072 11 .019 .019 Between Groups 2268.279 3 756.093 114.980 Within Groups 52.607 8 6.576 .0576

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

	- Total	13.567	11			
CEH	Between Groups	3.586	3	1.195	63.689	0.000
Hemolymph	Within Groups	.150		.019	•	
	Total	3.736	11			