

Table S2. Hemolymph pressure in the mesoscutal hemocoel

Specimen ID/Date	Time (h)	$T_a$ (°C)	Sequences		Hemolymph pressure (Pa)			Pulse amplitude ( $\Delta$ Pa)	
			No./min	No. min <sup>-1</sup>	Mean upper value during PPT	Mean lower value during NPT	Lowest value during NPT	PPT	NPT
F1/30.09.07	10:00	20	86/46	1.87	-41±10	-96±20	-122	3.5±0.5	≤1
F1/01.10.07	08:00	20	147/66	2.22	-32±2	-107±14	-230	4±1	≤1
M2/05.10.07	09:00	20	23/36	0.63	-50±13	-420±50	-535	10±2	2±1
M2/05.10.07	10:00	20	30/44	0.68	-32±11	-357±47	-485	8±2	≤1
M2/05.10.07	13:00	20	166/114	1.45	-14±6	-472±99	-774	6±2	≤1
M2/05.10.07	20:00	20	33/46	0.71	0±4	-405±60	-590	6±2	6±2
F3/06.10.07	16:00	21	149/51	2.92	-1±2	-78±33	-120	28±10	10±6
F3/07.10.07	06:00	21	192/155	1.24	-40±12	-268±37	-425	42±3	11±4
F3/07.10.07	21:00	21	55/28	1.96	-46±30	-286±60	-500	60±15	21±5
M4/08.10.07	08:00	22	83/42	1.97	-38±26	-378±25	-458	21±8	3±0.5
M4/09.10.07	10:00	23	34/37	0.92	-41±27	-461±40	-550	7±0.5	5±1
F5/09.10.07	23:00	23	60/34	1.76	-8±4	-48±20	-54	5±1	≤1
F5/10.10.07	22:00	23	45/42	1.07	-25±7	-205±37	-255	8±2	≤1
M9/25.11.08	08:00	20	37/20	1.85	0±1	-100±26	-130	17±3	13±2
M9/25.11.08	20:00	22	87/66	1.31	-27±9	-231±42	-380	18±6	4±1
F10/26.11.08	00:00	20	50/26	1.92	-39±13	-219±47	-249	19±4	19±11*
F10/26.11.08	17:00	20	58/43	1.3	-21±5	-255±137	-750	7±2	2±1
F10/27.11.08	01:00	21	84/36	2.33	-45±30	-257±60	-365	8±3	≤1
M21/02.06.09	12:00	22	148/60	2.46	-20±10	-278±48	-318	5±2	1±0.5
F23/12.06.09	17:00	23	170/56	3.03	-20±4	-86±27	-323	12±10	22±8*
F26/18.06.09	21:00	22	81/30	2.7	-29±8	-78±8	-160	4±1	1±0.5
Mean (N=10 flies)		20-23		1.54±0.71	-27±15	-242±136	-370±204	14±14	4.6±5.3

NPT, negative pressure pulse period in the thoracic hemocoel corresponding to the backward pulse periods of the heart; PPT, positive pressure pulse period in the thoracic hemocoel corresponding to the forward pulse periods of the heart;  $T_a$ , ambient temperature.

\*High amplitudes of NPT in relation to PPT, unlike in the other data, resulting from the application of saline. These data were not considered in means and statistics.