

Table S3. Intratracheal pressure in the mesoscutellar air sac

Specimen ID/Date	Time (h)	T_a (°C)	Sequences		Air pressure (Pa)	
			No./ min	No. min ⁻¹	Mean upper value during PPT	Mean lower value during NPT
F2/23.11.02	06:00	21	36/32	1.12	9.2±4.3	-8.3±6
F5/03.09.08	12:00	22	56/31	1.80	10.5±5.2	-4.9±1.5
F6/03.09.08	09:00	22	34/33	1.03	13.8±1.3	-9.4±2.3
F7/03.09.08	21:00	22	41/13	3.15	10.5±2.6	-4.4±2.8
M2/28.01.09	20:00	22	129/44	2.93	1.3±0.1	-0.45±0.05
M3/02.02.09	21:00	22	77/49	1.57	0.28±0.02	-0.12±0.03
M4/05.02.09	02:00	22	67/131	0.51	0.18±0.02	-0.1±0.02
F5/06.02.09	03:00	22	34/20	1.7	0.42±0.03	-0.25±0.05
F5/07.02.09	12:00	21	31/11	2.8	0.45±0.05	-0.2±0.04
F6/18.2.09	14:00	21	114/58	1.96	0.35±0.05	-0.2±0.1
F6/19.2.09	10:00	22	32/35	0.91	0.26±0.03	-0.1±0.1
F8/20.02.09	00:00	20	49/32	1.53	0.2±0.02	-0.1±0.05
F8/21.02.09	04:00	20	67/130	0.51	0.3±0.05	-0.2±0.03
F9/22.09.09	20:00	21	10/8	1.25	19±3	-14±2
F10/01.03.09	23:00	21	27/12	2.25	0.45±0.03	-0.55±0.01
F10/03.03.09	12:00	22	129/44	2.93	0.23±0.02	-0.19±0.01
F11/08.03.09	00:00	20	141/91	1.54	57±16	-85±26
F11/09.03.09	19:00	21	41/26	1.89	1±0.05	-0.5±0.02
F12/12.03.09	08:00	21	175/55	3.1	0.10±0.06	-0.05±0.04
F13/13.03.09	22:00	20	26/22	1.18	27±2.8	-26±2.2
F13/14.03.09	20:00	20	25/20	1.25	27±2	-12±2
F13/16.03.09	02:00	21	65/18	3.61	1.1±0.3	-0.6±0.2
F14/20.03.09	12:00	20	119/33	3.6	14±2	-12±4
F14/21.03.09	07:00	21	27/11	2.45	20±2	-17±2
F14/20.3.09	12:00	22	50/31	1.6	1±0.5	-2.2±0.2
M15/24.03.09	13:00	21	43/15	2.8	13±2	-14±4
Mean (N=17 flies)		21		1.9±0.9	8.8±13	-8.1±17

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.