

Supporting information for

Dataset on blood parameters including leukocyte profiles of eastern European vespertilionid and rhinolophid bats

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Bat species name	Sex and age group	SN% median/mean n± SD, min, max	BN% median/mean n± SD, min, max	L% median/mean n± SD, min, max	M% median/mean n± SD, min, max	EO% median/mean n± SD, min, max	BA% median/mean n± SD, min, max
<i>N. noctula</i>	F_total	37.5/40.4±1 8.0, 9.0, 87.0 (156)	1.0/1.2±1.1, 0.0, 8.0 (156)	59.0/54.9±1 8.5, 6.0, 90.0 (156)	2.0/3.0±2.4 , 0.0, 12.0 (156)	0.0/0.5±0. 6, 0.0, 2.0 (156)	0.0/0.3±0.5, 0.0, 2.0 (156)
	F_ad	46.0/43.7±1 9.2, 9.0, 87.0 (85)	1.0/1.1±0.9, 0.0, 5.0 (85)	52.0/52.2±1 9.7, 6.0, 90.0 (85)	2.0/2.6±2.2 , 0.0, 12.0 (85)	0.0/0.5±0. 6, 0.0, 2.0 (85)	0.0/0.2±0.4, 0.0, 1.0 (85)
	F_sad	35.0/36.8±1 5.9, 11.0, 73.0 (66)	1.0/1.3±1.3, 0.0, 8.0 (66)	61.5/57.7±1 6.6, 23.0, 86.0 (66)	3.0/3.5±2.7 , 0.0, 12.0 (66)	0.0/0.5±0. 5, 0.0, 1.0 (66)	0.0/0.3±0.5, 0.0, 2.0 (66)
	M_total	43.0/44.5±1 7.3, 11.0, 88.0 (140)	1.0/1.2±0.9, 0.0, 4.0 (140)	52.0/50.6±1 8.3, 8.0, 86.0 (140)	3.0/3.2±2.3 , 0.0, 12.0 (140)	0.0/0.4±0. 8, 0.0, 6.0 (140)	0.0/0.2±0.5, 0.0, 2.0 (140)
	M_ad	46.0/47.3±1 7.6, 13.0, 88.0 (63)	1.0/1.0±0.8, 0.0, 4.0 (63)	50.0/47.7±1 9.2, 8.0, 85.0 (63)	3.0/3.4±2.6 , 0.0, 12.0 (63)	0.0/0.5±0. 9, 0.0, 6.0 (63)	0.0/0.2±0.5, 0.0, 2.0 (63)
	M_sad	40.5/42.3±1 7.0, 11.0, 83.0 (74)	1.0/1.3±1.0, 0.0, 4.0 (74)	53.5/52.9±1 7.6, 12.0, 86.0 (74)	3.0/3.0±2.0 , 0.0, 11.0 (74)	0.0/0.4±0. 6, 0.0, 2.0 (74)	0.0/0.3±0.5, 0.0, 2.0 (74)
<i>E. serotinus</i>	F_total	42.0/43.1±1 8.4, 6.0, 74.0 (45)	1.0/1.2±1.1, 0.0, 5.0 (45)	54.0/52.3±1 8.3, 22.0, 93.0 (45)	2.0/2.8±2.9 , 0.0, 13.0 (45)	1.0/0.6±0. 6, 0.0, 2.0 (45)	0.0/0.1±0.3, 0.0, 1.0 (45)
	F_ad	42.0/44.1±1 7.7, 12.0, 74.0 (36)	1.0/1.1±1.0, 0.0, 4.0 (36)	53.0/51.9±1 8.0, 22.0, 84.0 (36)	2.0/2.1±1.9 , 0.0, 10.0 (36)	1.0/0.7±0. 6, 0.0, 2.0 (36)	0.0/0.1±0.3, 0.0, 1.0 (36)
	F_sad	36.0/38.9±2 1.7, 6.0, 74.0 (9)	1.0/1.6±1.5, 0.0, 5.0 (9)	54.0/53.6±2 0.3, 25.0, 93.0 (9)	3.0/5.4±4.4 , 1.0, 13.0 (9)	0.0/0.4±0. 5, 0.0, 1.0 (9)	0.0/0.1±0.3, 0.0, 1.0 (9)
	M_total	40.0/38.9±1 6.6, 12.0, 80.0 (59)	1.0/1.5±1.3, 0.0, 5.0 (59)	53.0/53.8±1 7.6, 18.0, 81.0 (59)	4.0/5.3±3.4 , 1.0, 15.0 (59)	0.0/0.5±0. 8, 0.0, 4.0 (59)	0.0/0.2±0.4, 0.0, 1.0 (59)
	M_ad	41.0/38.3±1 5.6, 12.0, 75.0 (49)	1.0/1.7±1.3, 0.0, 5.0 (49)	50.0/53.7±1 7.4, 20.0, 81.0 (49)	5.0/5.7±3.5 , 1.0, 15.0 (49)	0.0/0.5±0. 8, 0.0, 4.0 (49)	0.0/0.2±0.4, 0.0, 1.0 (49)
	M_sad	36.0/37.6±1 7.5, 15.0, 73.0 (9)	1.0/0.9±0.8, 0.0, 2.0 (9)	59.0/58.6±1 5.9, 34.0, 80.0 (9)	3.0/3.7±1.9 , 2.0, 8.0 (9)	0.0/0.4±0. 5, 0.0, 1.0 (9)	0.0/0.1±0.3, 0.0, 1.0 (9)

Table S1 (continued)

<i>Bat species name</i>	Sex and age group	SN% median/mean $\pm$ SD, min, max	BN% median/mean $\pm$ SD, min, max	L% median/mean $\pm$ SD, min, max	M% median/mean $\pm$ SD, min, max	EO% median/mean $\pm$ SD, min, max	BA% median/mean $\pm$ SD, min, max
<i>M. daubentonii</i>	F_total	34.0/37.0 $\pm$ 1 6.1, 15.0, 70.0 (21)	1.0/0.7 $\pm$ 0.7, 0.0, 2.0 (21)	63.0/57.8 $\pm$ 1 7.0, 24.0, 79.0 (21)	2.0/3.8 $\pm$ 3.0 , 1.0, 11.0 (21)	0.0/0.5 $\pm$ 0. 7, 0.0, 2.0 (21)	0.0/0.2 $\pm$ 0.4, 0.0, 1.0 (21)
	F_ad	24.5/30.6 $\pm$ 1 2.1, 15.0, 50.0 (10)	0.0/0.4 $\pm$ 0.5, 0.0, 1.0 (10)	72.5/65.8 $\pm$ 1 2.3, 43.0, 77.0 (10)	2.0/2.2 $\pm$ 1.3 , 1.0, 5.0 (10)	0.0/0.6 $\pm$ 0. 8, 0.0, 2.0 (10)	0.0/0.4 $\pm$ 0.5, 0.0, 1.0 (10)
	F_sad	45.0/44.3 $\pm$ 1 7.8, 20.0, 70.0 (10)	1.0/1.0 $\pm$ 0.8, 0.0, 2.0 (10)	48.5/48.7 $\pm$ 1 7.7, 24.0, 79.0 (10)	5.5/5.6 $\pm$ 3.5 , 1.0, 11.0 (10)	0.0/0.3 $\pm$ 0. 5, 0.0, 1.0 (10)	0.0/0.1 $\pm$ 0.3, 0.0, 1.0 (10)
	M_total	35.0/36.8 $\pm$ 1 4.4, 10.0, 69.0 (59)	1.0/0.9 $\pm$ 0.8, 0.0, 4.0 (59)	62.0/59.0 $\pm$ 1 5.2, 23.0, 85.0 (59)	2.0/2.6 $\pm$ 2.1 , 0.0, 8.0 (59)	0.0/0.4 $\pm$ 0. 7, 0.0, 3.0 (59)	0.0/0.2 $\pm$ 0.4, 0.0, 1.0 (59)
	M_ad	34.5/36.8 $\pm$ 1 3.9, 10.0, 69.0 (36)	1.0/0.9 $\pm$ 0.7, 0.0, 3.0 (36)	60.0/58.9 $\pm$ 1 4.7, 23.0, 85.0 (36)	2.0/2.5 $\pm$ 2.1 , 0.0, 8.0 (36)	1.0/0.6 $\pm$ 0. 7, 0.0, 3.0 (36)	0.0/0.2 $\pm$ 0.4, 0.0, 1.0 (36)
	M_sad	35.0/37.6 $\pm$ 1 5.9, 13.0, 63.0 (21)	1.0/1.1 $\pm$ 0.9, 0.0, 4.0 (21)	58.0/58.1 $\pm$ 1 6.4, 34.0, 85.0 (21)	2.0/2.7 $\pm$ 2.2 , 0.0, 8.0 (21)	0.0/0.2 $\pm$ 0. 5, 0.0, 2.0 (21)	0.0/0.2 $\pm$ 0.4, 0.0, 1.0 (21)
<i>P. nathusii</i>	F_total	32.5/34.9 $\pm$ 1 2.6, 16.0, 64.0 (24)	2.0/1.8 $\pm$ 1.1, 0.0, 4.0 (24)	63.0/58.2 $\pm$ 1 3.8, 27.0, 82.0 (24)	4.0/4.2 $\pm$ 2.2 , 1.0, 10.0 (24)	0.0/0.3 $\pm$ 0. 6, 0.0, 2.0 (24)	0.0/0.5 $\pm$ 0.7, 0.0, 2.0 (24)
	F_ad	41.5/40.7 $\pm$ 1 6.5, 16.0, 64.0 (6)	1.5/1.7 $\pm$ 1.2, 0.0, 3.0 (6)	52.0/53.8 $\pm$ 1 8.9, 27.0, 82.0 (6)	2.5/2.8 $\pm$ 1.5 , 1.0, 5.0 (6)	0.0/0.3 $\pm$ 0. 5, 0.0, 1.0 (6)	0.5/0.7 $\pm$ 0.8, 0.0, 2.0 (6)
	F_sad	31.0/33.0 $\pm$ 1 0.9, 18.0, 63.0 (18)	2.0/1.8 $\pm$ 1.0, 0.0, 4.0 (18)	63.0/59.7 $\pm$ 1 2.0, 29.0, 77.0 (18)	4.0/4.7 $\pm$ 2.3 , 2.0, 10.0 (18)	0.0/0.3 $\pm$ 0. 7, 0.0, 2.0 (18)	0.0/0.5 $\pm$ 0.6, 0.0, 2.0 (18)
	M_total	36.0/35.4 $\pm$ 1 1.6, 16.0, 53.0 (34)	1.0/1.1 $\pm$ 1.2, 0.0, 5.0 (34)	59.0/60.1 $\pm$ 1 1.8, 39.0, 82.0 (34)	2.0/2.6 $\pm$ 2.1 , 0.0, 9.0 (34)	0.0/0.3 $\pm$ 0. 5, 0.0, 2.0 (34)	0.0/0.3 $\pm$ 0.5, 0.0, 2.0 (34)
	M_ad	43.5/38.7 $\pm$ 1 1.9, 21.0, 53.0 (20)	1.0/0.8 $\pm$ 0.8, 0.0, 3.0 (20)	54.0/58.3 $\pm$ 1 2.0, 43.0, 79.0 (20)	1.0/1.6 $\pm$ 1.5 , 0.0, 6.0 (20)	0.0/0.2 $\pm$ 0. 4, 0.0, 1.0 (20)	0.0/0.2 $\pm$ 0.6, 0.0, 2.0 (20)
	M_sad	28.5/28.8 $\pm$ 9. 0, 16.0, 47.0 (12)	1.0/1.8 $\pm$ 1.5, 0.0, 5.0 (12)	64.0/64.2 $\pm$ 1 1.5, 39.0, 82.0 (12)	4.5/4.5 $\pm$ 2.0 , 2.0, 9.0 (12)	0.0/0.3 $\pm$ 0. 5, 0.0, 1.0 (12)	0.5/0.5 $\pm$ 0.5, 0.0, 1.0 (12)

Table S1 (continued)

<i>Bat species name</i>	Sex and age group	SN% median/mean $\pm$ SD, min, max	BN% median/mean $\pm$ SD, min, max	L% median/mean $\pm$ SD, min, max	M% median/mean $\pm$ SD, min, max	EO% median/mean $\pm$ SD, min, max	BA% median/mean $\pm$ SD, min, max
<i>P. k. lepidus</i>	F_total	66.5/64.7 $\pm$ 1 3.2, 33.0, 89.0 (38)	1.0/0.8 $\pm$ 0.6, 0.0, 2.0 (38)	30.0/31.3 $\pm$ 1 3.6, 7.0, 64.0 (38)	2.0/2.4 $\pm$ 1.7 , 1.0, 7.0 (38)	0.0/0.3 $\pm$ 0. 5, 0.0, 1.0 (38)	0.0/0.4 $\pm$ 0.5, 0.0, 2.0 (38)
	F_ad	68.5/66.5 $\pm$ 1 3.1, 33.0, 89.0 (26)	1.0/0.8 $\pm$ 0.5, 0.0, 2.0 (26)	28.0/29.7 $\pm$ 1 3.5, 7.0, 64.0 (26)	2.0/2.4 $\pm$ 1.6 , 1.0, 7.0 (26)	0.0/0.2 $\pm$ 0. 4, 0.0, 1.0 (26)	0.0/0.3 $\pm$ 0.5, 0.0, 1.0 (26)
	F_sad	58.5/60.8 $\pm$ 1 3.2, 41.0, 79.0 (12)	1.0/0.8 $\pm$ 0.7, 0.0, 2.0 (12)	37.0/34.8 $\pm$ 1 4.0, 18.0, 57.0 (12)	2.0/2.6 $\pm$ 2.0 , 1.0, 7.0 (12)	0.5/0.5 $\pm$ 0. 5, 0.0, 1.0 (12)	0.0/0.5 $\pm$ 0.7, 0.0, 2.0 (12)
	M_total	57.5/56.8 $\pm$ 1 6.8, 29.0, 88.0 (12)	1.0/0.8 $\pm$ 0.8, 0.0, 2.0 (12)	37.5/38.3 $\pm$ 1 7.2, 9.0, 66.0 (12)	2.0/3.2 $\pm$ 2.2 , 1.0, 7.0 (12)	0.0/0.5 $\pm$ 0. 8, 0.0, 2.0 (12)	0.0/0.3 $\pm$ 0.5, 0.0, 1.0 (12)
	M_ad	61.0/63.1 $\pm$ 1 4.4, 44.0, 88.0 (7)	1.0/1.0 $\pm$ 0.8, 0.0, 2.0 (7)	31.0/30.3 $\pm$ 1 3.1, 9.0, 47.0 (7)	5.0/4.3 $\pm$ 2.2 , 2.0, 7.0 (7)	1.0/0.9 $\pm$ 0. 9, 0.0, 2.0 (7)	0.0/0.4 $\pm$ 0.5, 0.0, 1.0 (7)
	M_sad	40.5/41.8 $\pm$ 1 1.9, 29.0, 57.0 (4)	0.5/0.5 $\pm$ 0.6, 0.0, 1.0 (4)	58.5/55.5 $\pm$ 1 1.9, 39.0, 66.0 (4)	1.5/2.0 $\pm$ 1.4 , 1.0, 4.0 (4)	0.0/0.0 $\pm$ 0. 0, 0.0, 0.0 (4)	0.0/0.2 $\pm$ 0.5, 0.0, 1.0 (4)
<i>Pl. auritus</i>	F_total	40.0/41.3 $\pm$ 1 3.4, 22.0, 68.0 (15)	1.0/1.1 $\pm$ 1.1, 0.0, 3.0 (15)	55.0/53.4 $\pm$ 1 4.0, 27.0, 72.0 (15)	2.0/3.6 $\pm$ 3.1 , 1.0, 11.0 (15)	0.0/0.2 $\pm$ 0. 4, 0.0, 1.0 (15)	0.0/0.3 $\pm$ 0.5, 0.0, 1.0 (15)
	F_ad	38.0/39.3 $\pm$ 1 2.5, 23.0, 59.0 (9)	1.0/0.9 $\pm$ 1.1, 0.0, 3.0 (9)	57.0/56.0 $\pm$ 1 2.7, 36.0, 72.0 (9)	2.0/3.3 $\pm$ 3.1 , 1.0, 11.0 (9)	0.0/0.1 $\pm$ 0. 3, 0.0, 1.0 (9)	0.0/0.2 $\pm$ 0.4, 0.0, 1.0 (9)
	F_sad	42.0/43.0 $\pm$ 1 6.8, 22.0, 68.0 (5)	2.0/1.4 $\pm$ 1.3, 0.0, 3.0 (5)	55.0/51.8 $\pm$ 1 7.0, 27.0, 71.0 (5)	2.0/2.8 $\pm$ 1.6 , 1.0, 5.0 (5)	0.0/0.4 $\pm$ 0. 5, 0.0, 1.0 (5)	1.0/0.6 $\pm$ 0.5, 0.0, 1.0 (5)
	M_total	28.0/26.5 $\pm$ 1 1.6, 7.0, 52.0 (21)	1.0/1.0 $\pm$ 1.1, 0.0, 3.0 (21)	66.0/68.7 $\pm$ 1 3.3, 45.0, 91.0 (21)	2.0/3.5 $\pm$ 2.8 , 1.0, 10.0 (21)	0.0/0.3 $\pm$ 0. 6, 0.0, 2.0 (21)	0.0/0.0 $\pm$ 0.2, 0.0, 1.0 (21)
	M_ad	30.5/27.5 $\pm$ 1 3.3, 8.0, 52.0 (12)	0.0/0.6 $\pm$ 0.9, 0.0, 2.0 (12)	65.0/67.8 $\pm$ 1 5.1, 45.0, 90.0 (12)	2.5/4.0 $\pm$ 3.2 , 1.0, 10.0 (12)	0.0/0.2 $\pm$ 0. 4, 0.0, 1.0 (12)	0.0/0.0 $\pm$ 0.0, 0.0, 0.0 (12)
	M_sad	26.0/24.7 $\pm$ 1 0.3, 7.0, 38.0 (6)	1.5/1.3 $\pm$ 0.8, 0.0, 2.0 (6)	69.0/70.3 $\pm$ 1 2.2, 57.0, 91.0 (6)	2.5/3.3 $\pm$ 2.3 , 1.0, 7.0 (6)	0.0/0.3 $\pm$ 0. 5, 0.0, 1.0 (6)	0.0/0.0 $\pm$ 0.0, 0.0, 0.0 (6)

Table S1 (continued)

<i>Bat species name</i>	Sex and age group	SN% median/mean $\pm$ SD, min, max	BN% median/mean $\pm$ SD, min, max	L% median/mean $\pm$ SD, min, max	M% median/mean $\pm$ SD, min, max	EO% median/mean $\pm$ SD, min, max	BA% median/mean $\pm$ SD, min, max
<i>V. murinus</i>	F_total	27.0/30.7 $\pm$ 1 6.6, 9.0, 63.0 (15)	1.0/1.5 $\pm$ 1.1, 0.0, 4.0 (15)	67.0/62.7 $\pm$ 1 6.6, 34.0, 82.0 (15)	4.0/4.5 $\pm$ 2.2 , 2.0, 9.0 (15)	0.0/0.3 $\pm$ 0. 6, 0.0, 2.0 (15)	0.0/0.3 $\pm$ 0.5, 0.0, 1.0 (15)
	F_ad	39.0/39.0 $\pm$ 1 7.0, 27.0, 51.0 (2)	0.5/0.5 $\pm$ 0.7, 0.0, 1.0 (2)	54.5/54.5 $\pm$ 2 0.5, 40.0, 69.0 (2)	5.5/5.5 $\pm$ 3.5 , 3.0, 8.0 (2)	0.5/0.5 $\pm$ 0. 7, 0.0, 1.0 (2)	0.0/0.0 $\pm$ 0.0, 0.0, 0.0 (2)
	F_sad	28.0/30.0 $\pm$ 1 8.4, 9.0, 63.0 (11)	2.0/1.7 $\pm$ 1.2, 0.0, 4.0 (11)	67.0/63.3 $\pm$ 1 8.0, 34.0, 82.0 (11)	4.0/4.4 $\pm$ 2.1 , 2.0, 9.0 (11)	0.0/0.2 $\pm$ 0. 6, 0.0, 2.0 (11)	0.0/0.5 $\pm$ 0.5, 0.0, 1.0 (11)
	M_total	27.0/29.7 $\pm$ 1 0.4, 15.0, 46.0 (13)	2.0/2.4 $\pm$ 1.6, 0.0, 5.0 (13)	66.0/62.8 $\pm$ 1 4.3, 36.0, 80.0 (13)	3.0/3.7 $\pm$ 1.7 , 1.0, 7.0 (13)	0.0/0.4 $\pm$ 0. 7, 0.0, 2.0 (13)	0.0/0.3 $\pm$ 0.6, 0.0, 2.0 (13)
	M_ad	28.0/30.3 $\pm$ 8. 7, 23.0, 40.0 (3)	3.0/2.7 $\pm$ 1.5, 1.0, 4.0 (3)	66.0/58.7 $\pm$ 2 0.0, 36.0, 74.0 (3)	3.0/3.7 $\pm$ 2.1 , 2.0, 6.0 (3)	0.0/0.7 $\pm$ 1. 2, 0.0, 2.0 (3)	0.0/0.7 $\pm$ 1.2, 0.0, 2.0 (3)
	M_sad	31.0/32.9 $\pm$ 9. 9, 21.0, 46.0 (8)	2.0/2.5 $\pm$ 1.8, 0.0, 5.0 (8)	60.0/60.4 $\pm$ 1 2.2, 44.0, 77.0 (8)	3.5/3.9 $\pm$ 1.8 , 1.0, 7.0 (8)	0.0/0.2 $\pm$ 0. 5, 0.0, 1.0 (8)	0.0/0.1 $\pm$ 0.4, 0.0, 1.0 (8)

Table S2 Summary of mean and median values (%) of Leukocyte profiles (SN - segmented neutrophils; BN - band neutrophils; L - lymphocytes; M - monocytes; EO - eosinophils; BA - basophils) for different Habitats of seven bat species, with a sample size of more than 25 individuals (in total) (n=number of individuals)

Bat species name	Habitat type	SN% median/mean n±SD, min, max	BN% median/mean n±SD, min, max	L% median/mean n±SD, min, max	M% median/mean n±SD, min, max	EO% median/mean n±SD, min, max	BA% median/mean n±SD, min, max
<i>N. noctula</i>	Natural	47.0/46.93± 18.52, 9.0, 88.0 (74)	1.0/0.88±0.9 1, 0.0, 5.0 (74)	50.0/49.97 ±19.21, 8.0, 90.0 (74)	1.0/2.07±1. 95, 0.0, 12.0 (74)	0.0/0.42 ±0.55, 0.0, 2.0 (74)	0.0/0.14±0.3 4, 0.0, 1.0 (74)
	Rural	48.0/47.26± 9.19, 29.0, 73.0 (23)	2.0/2.22± 1.28, 0.0, 5.0 (23)	42.0/43.04 ± 8.33, 23.0, 62.0 (23)	6.0/6.65± 2.81, 3.0, 12.0 (23)	0.0/0.39 ±0.66, 0.0, 2.0 (23)	0.0/0.43± 0.59, 0.0, 2.0 (23)
	Urban	36.0/39.6 ± 17.6, 10.0, 83.0 (193)	1.0/1.1 ± 0.8, 0.0, 4.0 (193)	60.0/55.55 ± 18.38, 10.0, 86.0 (193)	3.0/3.04 ± 2.02, 0.0, 12.0 (193)	0.0/0.49 ± 0.72, 0.0, 6.0 (193)	0.0/0.29 ± 0.48, 0.0, 2.0 (193)
<i>E. serotinus</i>	Natural	36.0/36.17 ±12.47, 15.0, 67.0 (36)	1.0/1.31±1.1 9, 0.0, 5.0 (36)	57.5/58.0±1 3.6, 30.0, 84.0 (36)	2.0/3.69±3. 56, 0.0, 13.0 (36)	1.0/0.72 ±0.81, 0.0, 4.0 (36)	0.0/0.11± 0.32, 0.0, 1.0 (36)
	Rural	26.5/32.46 ±15.2, 12.0, 58.0 (24)	2.0/1.83±1.3 4, 0.0, 5.0 (24)	66.5/59.5±1 8.13, 28.0, 81.0 (24)	5.0/5.58±2. 95, 2.0, 11.0 (24)	0.0/0.29 ±0.55, 0.0, 2.0 (24)	0.0/0.33±0.4 8, 0.0, 1.0 (24)
	Urban	47.5/48.95 ± 18.79, 6.0, 80.0 (44)	1.0/1.18 ± 1.15, 0.0, 4.0 (44)	41.5/45.68 ± 18.3, 18.0, 93.0 (44)	3.0/3.86 ± 3.31, 0.0, 15.0 (44)	0.0/0.52 ± 0.66, 0.0, 3.0 (44)	0.0/0.05 ± 0.21, 0.0, 1.0 (44)
<i>M. daubentonii</i>	Natural	34.5/36.87 ± 14.89, 10.0, 70.0 (78)	1.0/0.87 ± 0.78, 0.0, 4.0 (78)	62.0/58.67 ± 15.67, 23.0, 85.0 (78)	2.0/2.86 ± 2.46, 0.0, 11.0 (78)	0.0/0.46 ± 0.66, 0.0, 3.0 (78)	0.0/0.24 ± 0.43, 0.0, 1.0 (78)
	Rural	35.5/35.5 ± 13.44, 26.0, 45.0 (2)	1.5/1.5 ± 0.71, 1.0, 2.0 (2)	59.0/59.0 ± 14.14, 49.0, 69.0 (2)	4.0/4.0 ± 0.0, 4.0, 4.0 (2)	0.0/0.0 ± 0.0, 0.0, 0.0 (2)	0.0/0.0 ± 0.0, 0.0, 0.0 (2)
<i>P. nathusii</i>	Natural	42.0/41.11 ± 12.67, 21.0, 64.0 (19)	1.0/1.32 ± 1.25, 0.0, 4.0 (19)	52.0/54.68 ± 15.14, 27.0, 79.0 (19)	1.0/2.32 ± 2.85, 0.0, 10.0 (19)	0.0/0.47 ± 0.61, 0.0, 2.0 (19)	0.0/0.11 ± 0.32, 0.0, 1.0 (19)
	Rural	32.0/32.36 ± 10.56, 16.0, 53.0 (39)	1.0/1.46 ± 1.12, 0.0, 5.0 (39)	63.0/61.62 ± 10.58, 45.0, 82.0 (39)	4.0/3.77 ± 1.83, 1.0, 9.0 (39)	0.0/0.23 ± 0.54, 0.0, 2.0 (39)	0.0/0.56 ± 0.64, 0.0, 2.0 (39)

Table S2 (continued)

<i>Bat species name</i>	Habitat type	SN% median/mean ±SD, min, max	BN% median/mean ±SD, min, max	L% median/mean ±SD, min, max	M% median/mean ±SD, min, max	EO% median/mean ±SD, min, max	BA% median/mean ±SD, min, max
<i>P. k. lepidus</i>	Natural	61.0/61.0 ± nan, 61.0, 61.0 (1)	1.0/1.0 ± nan, 1.0, 1.0 (1)	31.0/31.0 ± nan, 31.0, 31.0 (1)	7.0/7.0 ± nan, 7.0, 7.0 (1)	0.0/0.0 ± nan, 0.0, 0.0 (1)	0.0/0.0 ± nan, 0.0, 0.0 (1)
	Rural	60.0/58.67 ± 4.16, 54.0, 62.0 (3)	1.0/1.33 ± 0.58, 1.0, 2.0 (3)	31.0/33.67 ± 7.37, 28.0, 42.0 (3)	6.0/5.0 ± 2.65, 2.0, 7.0 (3)	1.0/0.67 ± 0.58, 0.0, 1.0 (3)	1.0/0.67 ± 0.58, 0.0, 1.0 (3)
	Urban	66.0/63.56 ±14.83, 29.0, 89.0 (45)	1.0/0.76± 0.61, 0.0, 2.0 (45)	30.0/32.67 ±15.28, 7.0, 66.0 (45)	2.0/2.31± 1.52, 1.0, 7.0 (45)	0.0/0.31 ±0.51, 0.0, 2.0 (45)	0.0/0.38± 0.53, 0.0, 2.0 (45)
<i>Pl. auritus</i>	Natural	33.5/31.5± 14.07, 7.0, 59.0 (24)	1.0/0.79 ± 0.83, 0.0, 2.0 (24)	62.0/63.62 ±15.84, 36.0, 91.0 (24)	2.0/3.71± 3.37, 1.0, 11.0 (24)	0.0/0.29 ±0.55, 0.0, 2.0 (24)	0.0/0.08± 0.28, 0.0, 1.0 (24)
	Rural	31.5/34.92 ±14.89, 13.0, 68.0 (12)	2.0/1.67± 1.3, 0.0, 3.0 (12)	61.0/59.67 ±14.87, 27.0, 83.0 (12)	4.0/3.25± 1.42, 1.0, 5.0 (12)	0.0/0.17 ±0.39, 0.0, 1.0 (12)	0.0/0.33± 0.49, 0.0, 1.0 (12)
<i>V. murinus</i>	Natural	43.0/43.0± nan, 43.0, 43.0 (1)	2.0/2.0± nan, 2.0, 2.0 (1)	49.0/49.0± nan, 49.0, 49.0 (1)	5.0/5.0± nan, 5.0, 5.0 (1)	1.0/1.0± nan, 1.0, 1.0 (1)	0.0/0.0± nan, 0.0, 0.0 (1)
	Rural	27.0/27.83 ±11.96, 9.0, 56.0 (24)	2.0/2.12± 1.33, 0.0, 5.0 (24)	66.5/64.88 ±13.9, 34.0, 82.0 (24)	4.0/4.12± 1.8, 2.0, 9.0 (24)	0.0/0.29 ±0.62, 0.0, 2.0 (24)	0.0/0.33± 0.56, 0.0, 2.0 (24)
	Urban	42.5/42.5± 28.99, 22.0, 63.0 (2)	0.0/0.0± 0.0, 0.0, 0.0 (2)	55.5/55.5± 30.41, 34.0, 77.0 (2)	1.5/1.5± 0.71, 1.0, 2.0 (2)	0.0/0.0± 0.0, 0.0, 0.0 (2)	0.5/0.5± 0.71, 0.0, 1.0 (2)

Table S3 Summary of mean and median values (%) of Leukocyte profiles (SN - segmented neutrophils; BN - band neutrophils; L - lymphocytes; M - monocytes; EO - eosinophils; BA - basophils) for different Bat Life Seasons of seven bat species, with a sample size of more than 25 individuals (in total) (n=number of individuals)

Bat species name	Bat Life Seasons	SN% median/mean±SD, min, max	BN% median/mean±SD, min, max	L% median/mean±SD, min, max	M% median/mean±SD, min, max	EO% median/mean±SD, min, max	BA% median/mean±SD, min, max
<i>N. noctula</i>	Autumn Swarming	54.5/56.0 ±8.04, 49.0, 66.0 (4)	1.0/1.5± 1.0, 1.0, 3.0 (4)	37.5/37.5± 9.68, 27.0, 48.0 (4)	4.5/4.25± 2.75, 1.0, 7.0 (4)	0.5/0.5± 0.58, 0.0, 1.0 (4)	0.0/0.25± 0.5, 0.0, 1.0 (4)
	Breeding	48.0/47.43±16.6, 9.0, 88.0 (101)	1.0/1.21± 1.16, 0.0, 5.0 (101)	44.0/47.85 ±17.29, 8.0, 90.0 (101)	2.0/3.23± 2.89, 0.0, 12.0 (101)	0.0/0.38 ±0.56, 0.0, 2.0 (101)	0.0/0.21± 0.43, 0.0, 2.0 (101)
	Hibernation	35.0/38.86 ± 17.54, 10.0, 83.0 (185)	1.0/1.09 ± 0.78, 0.0, 4.0 (185)	61.0/56.36 ±18.3, 10.0, 86.0 (185)	3.0/2.97± 2.01, 0.0, 12.0 (185)	0.0/0.51 ±0.72, 0.0, 6.0 (185)	0.0/0.29± 0.48, 0.0, 2.0 (185)
<i>E. serotinus</i>	Autumn Swarming	40.0/38.15 ±9.51, 18.0, 51.0 (13)	2.0/2.08± 1.38, 1.0, 5.0 (13)	53.0/52.31 ±8.55, 40.0, 69.0 (13)	8.0/6.69± 4.13, 0.0, 13.0 (13)	1.0/0.62 ±0.65, 0.0, 2.0 (13)	0.0/0.15± 0.38, 0.0, 1.0 (13)
	Breeding	38.0/37.26 ±15.78, 12.0, 75.0 (62)	1.0/1.55± 1.24, 0.0, 5.0 (62)	56.5/55.95 ±17.38, 20.0, 84.0 (62)	3.0/4.58± 3.48, 0.0, 15.0 (62)	0.0/0.5 ±0.78, 0.0, 4.0 (62)	0.0/0.16 ± 0.37, 0.0, 1.0 (62)
	Hibernation	54.0/49.28 ± 20.78, 6.0, 80.0 (29)	1.0/0.69 ± 0.76, 0.0, 3.0 (29)	41.0/47.48 ± 20.69, 18.0, 93.0 (29)	2.0/2.28 ± 1.1, 1.0, 4.0 (29)	1.0/0.59 ± 0.57, 0.0, 2.0 (29)	0.0/0.07 ± 0.26, 0.0, 1.0 (29)
<i>M. daubentonii</i>	Autumn Swarming	33.0/36.16 ± 15.87, 10.0, 70.0 (58)	1.0/0.84 ± 0.72, 0.0, 3.0 (58)	62.5/58.93 ± 16.73, 23.0, 85.0 (58)	3.0/3.4 ± 2.56, 0.0, 11.0 (58)	0.0/0.45 ± 0.71, 0.0, 3.0 (58)	0.0/0.22 ± 0.42, 0.0, 1.0 (58)
	Breeding	40.5/38.64 ± 11.59, 20.0, 63.0 (22)	1.0/1.0 ± 0.93, 0.0, 4.0 (22)	56.5/58.0 ± 12.23, 34.0, 79.0 (22)	1.5/1.55 ± 1.41, 0.0, 4.0 (22)	0.0/0.45 ± 0.51, 0.0, 1.0 (22)	0.0/0.27 ± 0.46, 0.0, 1.0 (22)

Table S3 (continued)

<i>Bat species name</i>	Bat Life Seasons	SN% median/mean $\pm$ SD, min, max	BN% median/mean $\pm$ SD, min, max	L% median/mean $\pm$ SD, min, max	M% median/mean $\pm$ SD, min, max	EO% median/mean $\pm$ SD, min, max	BA% median/mean $\pm$ SD, min, max
<i>P. nathusii</i>	Breeding	33.5/35.22 $\pm$ 11.93, 16.0, 64.0 (58)	1.0/1.41 $\pm$ 1.16, 0.0, 5.0 (58)	61.5/59.34 $\pm$ 12.56, 27.0, 82.0 (58)	3.0/3.29 $\pm$ 2.29, 0.0, 10.0 (58)	0.0/0.31 $\pm$ 0.57, 0.0, 2.0 (58)	0.0/0.41 $\pm$ 0.59, 0.0, 2.0 (58)
<i>P. k. lepidus</i>	Autumn Swarming	61.0 (1)	1.0 (1)	31.0 (1)	7.0 (1)	0.0 (1)	0.0 (1)
	Breeding	59.0/58.5 $\pm$ 3.42, 54.0, 62.0 (4)	1.0/1.0 $\pm$ 0.82, 0.0, 2.0 (4)	33.5/34.25 $\pm$ 6.13, 28.0, 42.0 (4)	5.5/5.0 $\pm$ 2.16, 2.0, 7.0 (4)	0.5/0.5 $\pm$ 0.58, 0.0, 1.0 (4)	1.0/0.75 $\pm$ 0.5, 0.0, 1.0 (4)
	Hibernation	66.5/63.68 $\pm$ 14.97, 29.0, 89.0 (44)	1.0/0.77 $\pm$ 0.6, 0.0, 2.0 (44)	30.0/32.59 $\pm$ 15.45, 7.0, 66.0 (44)	2.0/2.25 $\pm$ 1.48, 1.0, 7.0 (44)	0.0/0.32 $\pm$ 0.52, 0.0, 2.0 (44)	0.0/0.36 $\pm$ 0.53, 0.0, 2.0 (44)
<i>Pl. auritus</i>	Autumn Swarming	33.5/31.64 $\pm$ 14.39, 7.0, 59.0 (22)	1.0/0.86 $\pm$ 0.83, 0.0, 2.0 (22)	62.0/63.32 $\pm$ 16.25, 36.0, 91.0 (22)	2.0/3.82 $\pm$ 3.5, 1.0, 11.0 (22)	0.0/0.27 $\pm$ 0.55, 0.0, 2.0 (22)	0.0/0.09 $\pm$ 0.29, 0.0, 1.0 (22)
	Breeding	31.5/34.21 $\pm$ 14.36, 13.0, 68.0 (14)	2.0/1.43 $\pm$ 1.34, 0.0, 3.0 (14)	61.0/60.71 $\pm$ 14.48, 27.0, 83.0 (14)	3.5/3.14 $\pm$ 1.35, 1.0, 5.0 (14)	0.0/0.21 $\pm$ 0.43, 0.0, 1.0 (14)	0.0/0.29 $\pm$ 0.47, 0.0, 1.0 (14)
<i>V. murinus</i>	Autumn Swarming	43.0 (1)	2.0 (1)	49.0 (1)	5.0 (1)	1.0 (1)	0.0 (1)
	Breeding	27.0/27.83 $\pm$ 11.96, 9.0, 56.0 (24)	2.0/2.12 $\pm$ 1.33, 0.0, 5.0 (24)	66.5/64.88 $\pm$ 13.9, 34.0, 82.0 (24)	4.0/4.12 $\pm$ 1.8, 2.0, 9.0 (24)	0.0/0.29 $\pm$ 0.62, 0.0, 2.0 (24)	0.0/0.33 $\pm$ 0.56, 0.0, 2.0 (24)
	Hibernation	42.5/42.5 $\pm$ 28.99, 22.0, 63.0 (2)	0.0/0.0 $\pm$ 0.0, 0.0, 0.0 (2)	55.5/55.5 $\pm$ 30.41, 34.0, 77.0 (2)	1.5/1.5 $\pm$ 0.71, 1.0, 2.0 (2)	0.0/0.0 $\pm$ 0.0, 0.0, 0.0 (2)	0.5/0.5 $\pm$ 0.71, 0.0, 1.0 (2)