

Table S1 - Fatty acid profile (%) of plasma in young-of-the-year (YOY I and II) of *Rhinoptera bonasus* (Mean \pm SD; Coefficient of Variation CV,%). Σ BFA - OFA – branched chain and odd chain fatty acid, Σ SFA – saturated fatty acid, Σ MUFA – monounsaturated fatty acid, Σ PUFA – polyunsaturated fatty acid, Σ PUFA n-3 - omega 3, Σ PUFA n6- omega 6. EPA eicosapentaenoic acid, ARA arachidonic acid, DHA, docosahexaenoic acid.

Fatty acids (%)	YOY I (n = 12)	CV	YOY II (n = 9)	CV
C15:0	0.7 \pm 0.20	31 %	-	-
C17:0	1.9 \pm 0.44	24 %	1.7 \pm 0.41	25 %
C17:0anteiso	1.4 \pm 0.32 ^a	23 %	0.7 \pm 0.20 ^b	27 %
C18:0iso	0.9 \pm 0.28	30 %	0.7 \pm 0.24	33 %
C18:0anteiso	1.2 \pm 0.23	20 %	0.8 \pm 0.10	12 %
C20:0iso	1.4 \pm 0.62	43 %	1.1 \pm 0.47	45 %
C23:0	1.1 \pm 0.49	47 %	-	-
C16:0	19.3 \pm 3.82 ^a	20 %	14.2 \pm 3.45 ^b	24 %
C18:0	13.6 \pm 3.83	28 %	11.8 \pm 3.42	29 %
C20:0	0.8 \pm 0.12	16 %	0.6 \pm 0.05	9 %
C22:0	1.3 \pm 0.38	29 %	1.0 \pm 0.16	15 %
C24:0	1.9 \pm 1.02	53 %	0.9 \pm 0.24	27 %
C14:1c	1.1 \pm 0.56	51 %	-	-
C14:1t	1.0 \pm 0.19	20 %	-	-
C16:1n7	1.8 \pm 0.56 ^a	31 %	1.4 \pm 0.40 ^b	28 %
C18:1n9	4.8 \pm 1.21	25 %	4.7 \pm 2.72	57 %
C18:1n7	3.2 \pm 1.26	39 %	2.3 \pm 0.87	38 %
C20:1n9	1.3 \pm 0.75	59 %	1.2 \pm 0.46	39 %
C20:1n11	0.8 \pm 0.42	51 %	-	-
C22:1	1.3 \pm 0.55	43 %	-	-
C16:4n1	1.3 \pm 0.55	41 %	1.0 \pm 0.35	34 %
C16:2n4	0.7 \pm 0.09	13 %	-	-
C18:4n3	1.8 \pm 1.04	59 %	1.1 \pm 0.53	47 %
C18:2n6c	1.5 \pm 1.02	70 %	1.2 \pm 0.55	48 %
C18:2n6t	0.7 \pm 0.10	14 %	0.8 \pm 0.3	38 %
C18:2n9	1.8 \pm 0.26	15 %	1.0 \pm 0.64	63 %
C20:3n3	3.9 \pm 2.97	75 %	3.2 \pm 0.02	1 %
C20:4n3	1.1 \pm 0.68	62 %	1.1 \pm 0.86	75 %
C20:5n3 (EPA)	5.7 \pm 2.91 ^a	51 %	7.8 \pm 1.85 ^b	24 %
C22:5n3	2.3 \pm 1.09	46 %	4.4 \pm 1.08	24 %
C22:6n3 (DHA)	12.9 \pm 7.14 ^a	55 %	22.5 \pm 5.89 ^b	26 %
C21:5n3	1.1 \pm 0.48	46 %	1.5 \pm 0.96	63 %
C20:2n6	2.0 \pm 0.73	36 %	1.8 \pm 0.46	25 %
C20:4n6 (ARA)	7.1 \pm 2.3	32 %	6.4 \pm 1.56	25 %
C22:4n6	4.1 \pm 1.78	44 %	5.1 \pm 1.91	38 %
C22:5n6	2.7 \pm 1.46	54 %	4.1 \pm 1.54	38 %
Σ BFA - OFA	7.0 \pm 2.15 ^a	30 %	4.0 \pm 1.21 ^b	30 %
Σ SFA	36.5 \pm 8.15 ^a	22 %	28.0 \pm 6.00 ^b	21 %
Σ MUFA	12.6 \pm 3.31	26 %	9.9 \pm 3.57	36 %
Σ PUFA	42.2 \pm 12.87 ^a	31 %	56.9 \pm 9.84 ^b	17 %
Σ PUFA n3	24.1 \pm 9.21 ^a	38 %	37.6 \pm 7.71 ^b	21 %
Σ PUFA n6	17.2 \pm 4.79	28 %	18.7 \pm 4.15	22 %
n3/n6	1.4 \pm 0.29 ^a	21 %	2.0 \pm 0.42 ^b	21 %
Σ C18 n3	1.5 \pm 1.24	81 %	0.9 \pm 0.72	78 %
Σ C20-22 n3	22.8 \pm 9.97 ^a	44 %	36.7 \pm 8.16 ^b	22 %
Σ C18 n6	1.3 \pm 0.92	68 %	1.3 \pm 0.50	39 %
Σ C20-22 n6	15.9 \pm 4.90	31 %	17.4 \pm 4.13	24 %
EPA/ARA	0.8 \pm 0.18	23 %	2.3 \pm 1.44	61 %
DHA/ARA	1.7 \pm 0.52	30 %	2.1 \pm 1.73	84 %
EPA/DHA	0.5 \pm 0.12	26 %	0.4 \pm 0.09	25 %
C16:1n7/C16:0	0.1 \pm 0.04	44 %	0.1 \pm 0.04	35 %
C18:1n9/C18:1n7	1.8 \pm 0.99	55 %	2.2 \pm 0.83	38 %
DHA/EPA	2.3 \pm 0.46 ^a	20 %	2.9 \pm 0.61 ^b	21 %
ARA/EPA	1.4 \pm 0.35 ^a	26 %	0.8 \pm 0.11 ^b	13 %

- Values not found or lower than 0.5%.

^{ab} Significant differences between YOY I and YOY II (Student t test, $p < 0.05$).

Table S2 - Fatty acid profile (%) of muscle in young-of-the-year (YOY I and II) of *Rhinoptera bonasus* (Mean \pm SD; Coefficient of Variation CV,%). Σ BFA - OFA – branched chain and odd chain fatty acid, Σ SFA – saturated fatty acid, Σ MUFA – monounsaturated fatty acid, Σ PUFA – polyunsaturated fatty acid, Σ PUFA n-3 - omega 3, Σ PUFA n6- omega 6. EPA eicosapentaenoic acid, ARA arachidonic acid, DHA, docosahexaenoic acid.

Fatty acids (%)	YOY I (n = 32)	CV	YOY II (n = 16)	CV
C15:0	0.5 \pm 0.01	1 %	-	-
C16:0iso	1.5 \pm 0.41	26 %	1.5 \pm 0.55	36 %
C17:0	1.5 \pm 0.74	49 %	1.1 \pm 0.67	63 %
C17:0anteiso	1.0 \pm 0.42	42 %	-	-
C18:0iso	1.8 \pm 1.10	59 %	-	-
C18:0anteiso	1.5 \pm 0.79	52 %	1.5 \pm 0.40	27 %
C20:0iso	1.1 \pm 0.68	61 %	-	-
C15:1c	0.6 \pm 0.02	3 %	-	-
C14:0	3.2 \pm 4.01	124 %	2.2 \pm 1.90	88 %
C16:0	20.1 \pm 2.77	14 %	19.8 \pm 2.61	13 %
C18:0	14.6 \pm 2.19	15 %	14.6 \pm 2.44	17 %
C20:0	0.8 \pm 0.43	53 %	1.0 \pm 0.38	40 %
C16:1n7	2.9 \pm 2.19	76 %	3.2 \pm 1.28	40 %
C18:1n9	7.4 \pm 1.67 ^a	23 %	9.9 \pm 2.63 ^b	27 %
C18:1n7	5.9 \pm 1.15	19 %	6.1 \pm 1.25	21 %
C20:1n9	1.8 \pm 1.76	99 %	1.5 \pm 0.84	55 %
C16:4n1	2.3 \pm 0.87	37 %	-	-
C18:3n4	0.9 \pm 0.26	29 %	1.5 \pm 1.17	81 %
C18:3n3	1.9 \pm 1.26	66 %	1.6 \pm 0.66	42 %
C18:4n3	2.0 \pm 1.93	95 %	-	-
C18:2n6t	0.7 \pm 0.02	3 %	0.6 \pm 0.03	5 %
C18:2n9	2.8 \pm 1.89	68 %	-	-
C20:3n3	-	-	1.4 \pm 0.60	42 %
C20:4n3	1.9 \pm 1.20	62 %	1.7 \pm 0.42	25 %
C20:5n3 (EPA)	1.3 \pm 0.35 ^a	26 %	2 \pm 0.39 ^b	20 %
C22:5n3	3.9 \pm 1.20	31 %	4.8 \pm 1.44	30 %
C22:6n3 (DHA)	19.9 \pm 4.00 ^a	20 %	16.8 \pm 2.34 ^b	14 %
C20:2n6	1.8 \pm 1.49	82 %	1.3 \pm 0.75	59 %
C20:4n6 (ARA)	7.8 \pm 1.39 ^a	18 %	6.0 \pm 1.12 ^b	19 %
C22:4n6	2.9 \pm 0.92	32 %	3.3 \pm 0.64	20 %
C22:5n6	2.2 \pm 0.70	31 %	2.7 \pm 0.49	18 %
Σ BFA - OFA	4.5 \pm 1.54 ^a	34 %	3.5 \pm 0.83 ^b	24 %
Σ SFA	36.4 \pm 4.21	12 %	36.0 \pm 3.73	10 %
Σ MUFA	16.9 \pm 3.24 ^a	19 %	20.2 \pm 2.86 ^b	14 %
Σ PUFA	41.4 \pm 6.22	15 %	40.1 \pm 4.3	11 %
Σ PUFA n3	26.6 \pm 4.58	17 %	25.7 \pm 3.88	15 %
Σ PUFA n6	13.7 \pm 2.06 ^a	15 %	13.3 \pm 1.64 ^b	12 %
n3/n6	2.0 \pm 0.26	14 %	1.9 \pm 0.33	17 %
Σ C20-22 n3	25.9 \pm 4.59	18 %	24.9 \pm 3.37	13 %
Σ C20-22 n6	13.6 \pm 2.11	16 %	13.1 \pm 1.6	12 %
EPA/ARA	0.2 \pm 0.04	21 %	0.3 \pm 0.07	20 %
DHA/ARA	2.6 \pm 0.4	15 %	2.8 \pm 0.45	16 %
EPA/DHA	0.1 \pm 0.02	26 %	0.1 \pm 0.02	16 %
DHA/EPA	15.5 \pm 3.44 ^a	22 %	8.6 \pm 1.42 ^b	16 %
C16:1n7/C16:0	0.2 \pm 0.14	89 %	0.2 \pm 0.11	62 %
C18:1n9/C18:1n7	1.3 \pm 0.45 ^a	35 %	1.8 \pm 0.93 ^b	53 %
ARA/EPA	6.0 \pm 1.23 ^a	20 %	3.1 \pm 0.58 ^b	19 %

- Values not found or lower than 0.5%.

^{ab} Significant differences between YOY I and YOY II (Student *t* test, *p* < 0.05).