

**Table S3a.** Mean residuals ( $\mu$ ) and sample size (n) from linear regressions organised by categories. Categories with sample sizes  $n < 3$  were excluded. C=Carnivores; OH=Omnivores and Herbivores.

Factor	Category	Max~BS (C)		Max~BS (OH)		Med~BS (C)		Med~BS (OH)		Mn~BS (C)		Mn~BS (OH)		Max~HR		Med~HR		Mn~HR	
		$\mu$	n	$\mu$	n	$\mu$	n	$\mu$	n	$\mu$	n	$\mu$	n	$\mu$	n	$\mu$	n	$\mu$	n
Locomotion	Arboreal	-0.57	3	-0.16	20			0.03	8			-0.02	10	-0.31	23	-0.06	9	-0.01	11
	Terrestrial	0.11	31	0.04	81	0.01	18	-0.01	32	0.04	17	-0.01	39	0.04	116	0.01	46	-0.02	58
	Semi-arboreal			0.24	3									0.43	5				
Territoriality	Non-territorial	0.01	32	-0.07	80	0.00	17	-0.01	30	0.02	18	-0.06	41	-0.02	116	-0.02	44	-0.05	59
	Territorial	-0.06	5	0.19	28			0.02	11			0.23	9	0.05	33	0.04	13	0.17	13
Social behaviour	Gregarious	-0.17	6	-0.04	42	-0.16	4	-0.11	18	-0.13	3	-0.05	19	0.01	52	-0.01	22	0.07	24
	Solitary	0.05	29	0.07	58	0.03	14	0.10	22	0.01	15	0.06	28	0.01	87	0.04	32	-0.01	44
	Semi-social			-0.27	7									-0.12	9	-0.28	4		
Niche breadth	Specialist	0.13	11	-0.08	36														
	Generalist	-0.05	26	0.04	73														
Latitude	Tropical	-0.41	9	-0.35	14	-0.26	5	-0.02	5			-0.32	6	-0.21	25	-0.12	11	-0.21	9
	Temperate	0.13	28	0.05	95	0.09	14	0.00	37	0.03	17	0.04	45	0.05	124	0.03	47	0.03	64
Order	Artiodactyla			-0.01	9			0.04	6			-0.17	6	0.09	12	0.04	6	-0.03	7
	Carnivora	0.08	30	0.33	10	0.00	19	-0.02	4	0.03	18	0.46	7	0.10	38	-0.01	22	0.06	24
	Rodentia			-0.07	64			-0.07	24			0.00	26	-0.03	65	-0.03	21	0.00	26
	Lagomorpha			0.48	8			0.31	4			-0.72	4	0.50	7	0.27	4	-0.37	4
	Primates			-0.39	10							-0.33	4	-0.52	11	-0.37	3	-0.17	4

**Table S3b.** Mean residuals ( $\mu$ ) and sample size (n) from multiple regressions divided by categories. Categories having with n<3 were excluded. C=Carnivores; OH=Omnivores and Herbivores.

Factor	Category	Max~BS+HR (C)		Max~BS+HR (OH)		Med~BS+HR (C)		Med~BS+HR (OH)		Mn~BS+HR (C)		Mn~BS+HR (OH)	
		$\mu$	n	$\mu$	n	$\mu$	n	$\mu$	n	$\mu$	n	$\mu$	n
Locomotion	Arboreal	-0.68	3	-0.18	20			0.03	8			0.07	10
	Terrestrial	0.10	31	0.03	83	0.02	17	-0.01	32	0.04	16	-0.03	37
	Semi-arboreal												
Territoriality	Non-territorial	0.02	33	-0.05	79	0.03	18	0.00	30	0.00	18	-0.06	38
	Territorial	-0.14	4	0.13	30			-0.01	11			0.19	9
Social behaviour	Gregarious	-0.21	6	0.02	42	-0.26	4	-0.12	19	-0.19	3	0.07	18
	Solitary	0.05	29	0.03	58	0.07	13	0.13	21	0.03	14	0.00	26
	Semi-social			-0.21	7								
Niche breadth	Specialist	-0.02	11	-0.06	36								
	Generalist	0.01	26	0.03	74								
Latitude	Tropical	-0.22	9	-0.29	15	-0.22	6	-0.04	5			-0.21	6
	Temperate	0.07	28	0.05	95	0.10	13	0.01	37	0.03	16	0.03	42
Order	Artiodactyla			0.00	11			-0.04	6			0.03	6
	Carnivora	0.04	30	0.13	10	0.00	18	-0.06	3	0.02	17	0.11	6
	Rodentia			-0.03	63			-0.03	25			0.01	24
	Lagomorpha			0.57	8			0.29	4			-0.28	4
	Primates			-0.46	10							-0.18	4