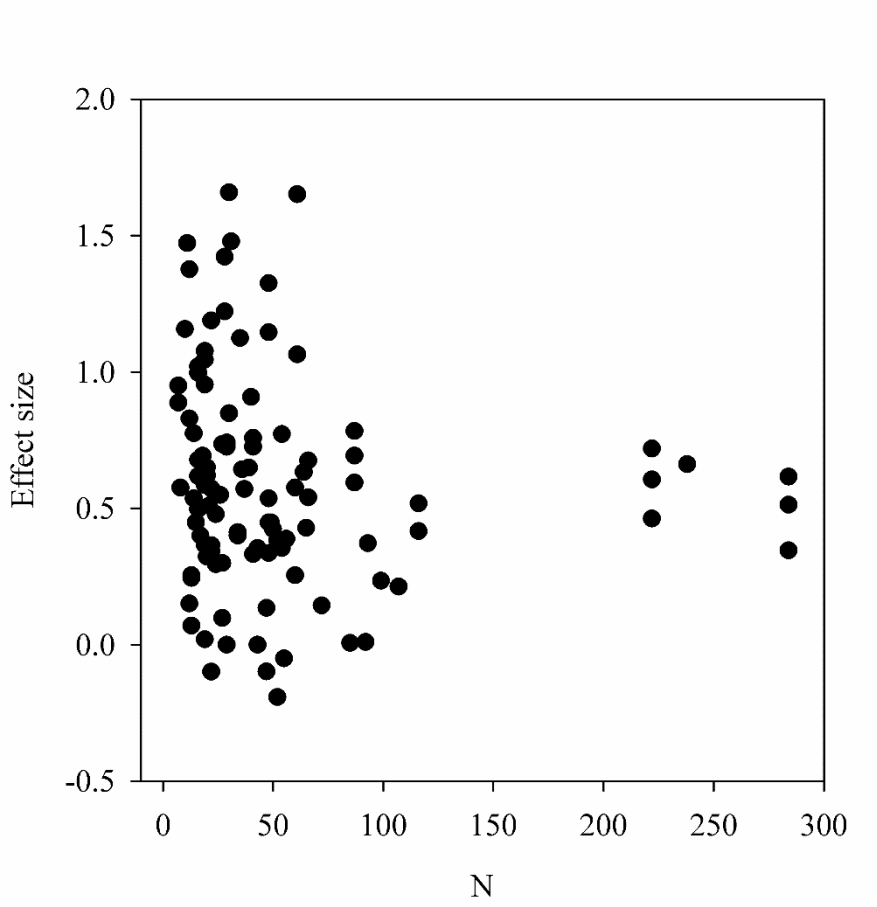

Fig. S1. Effect size versus the number of individuals in each study (N). Data are 106 Fisher's Z-transformed effect sizes of the repeatability of metabolic rate (basal, resting, or maximum) derived from 39 studies on birds and mammals.

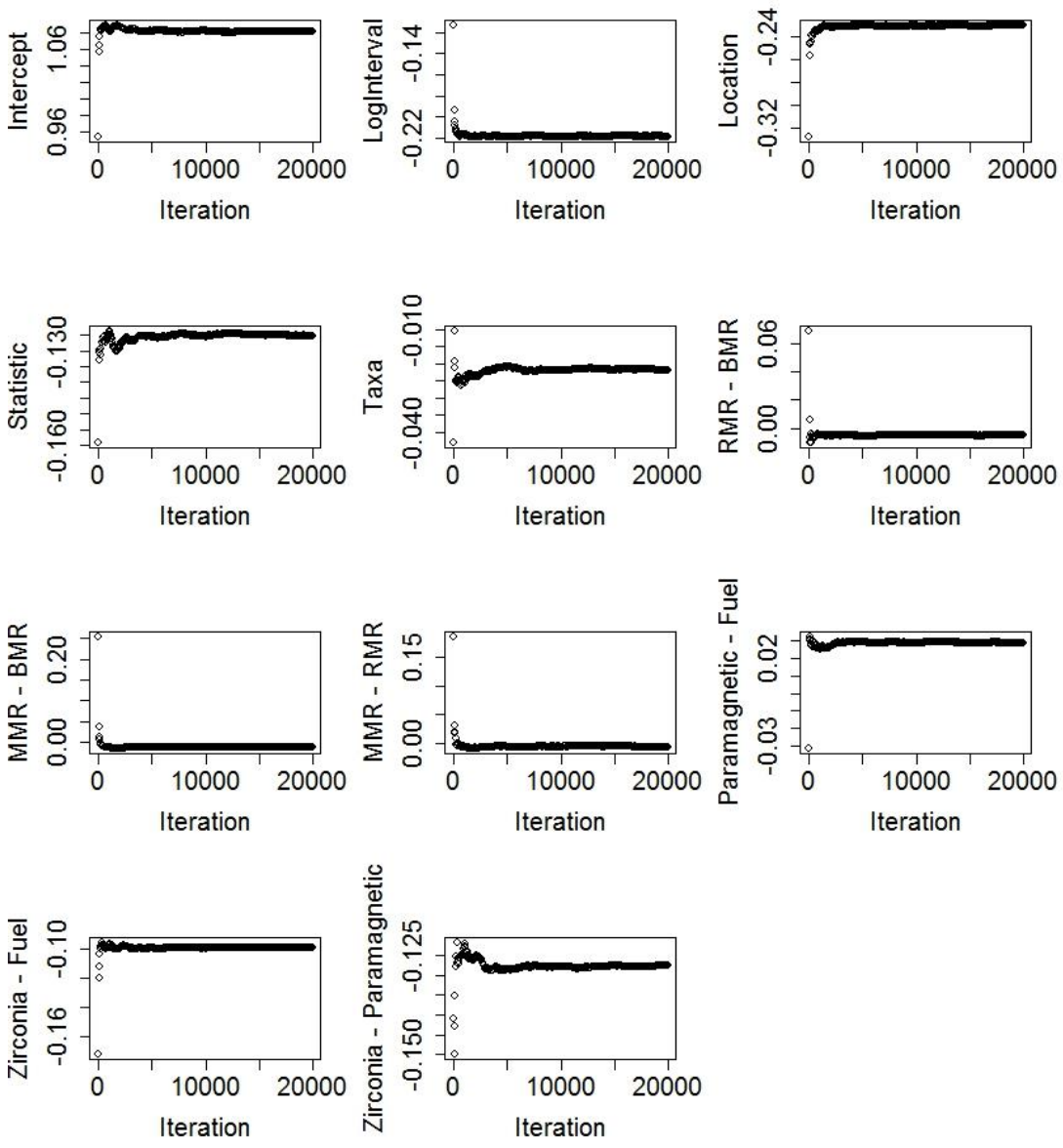

Fig. S2. Convergence of parameter estimates after successive re-sampling (iteration) of 106 Fisher's Z transformed effect sizes for estimates of basal, resting, and maximum metabolic rates (BMR, RMR and MMR, respectively) derived from 39 studies. Estimates for location, study taxa, and repeatability statistic are given as the difference between levels of each categorical predictor: wild minus laboratory populations, mammals minus birds, and intra-class minus Pearson's correlation coefficient, respectively. Estimates for metabolic traits are given as the difference between traits: RMR minus BMR, MMR minus BMR, and MMR minus RMR. Estimates for oxygen analyser are given as the difference between types: zirconia-cell minus fuel-cell, paramagnetic minus fuel-cell, and paramagnetic minus zirconia-cell.

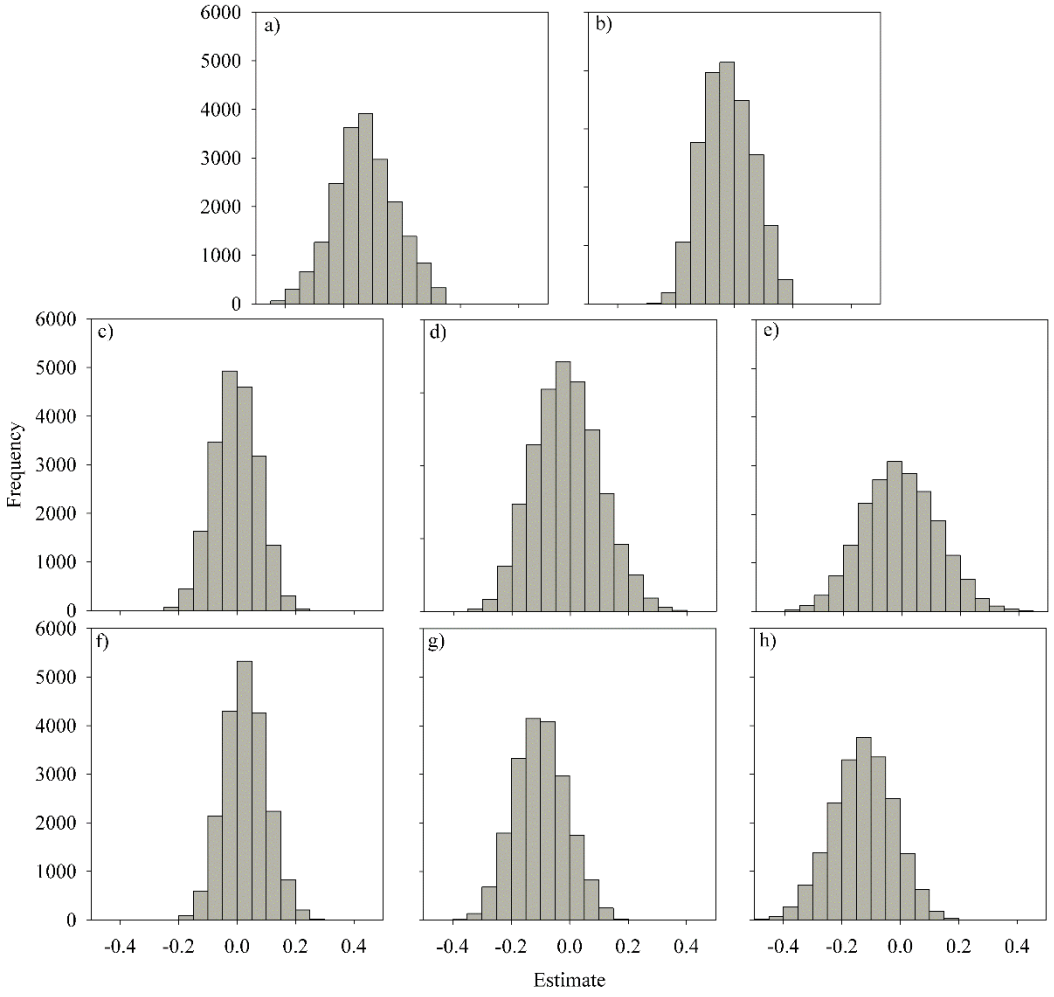

Fig. S3. Frequency distributions of parameter estimates obtained by re-sampling repeatedly from a dataset of 106 Fisher's Z transformed effect sizes for estimates of basal, resting, and maximum metabolic rates (BMR, RMR and MMR, respectively) derived from 39 studies. A single estimate was selected randomly from each study for each replicate. Estimates for repeatability statistic and study taxa and are given as the difference between levels of each categorical predictor: a) intra-class minus Pearson's correlation coefficient and b) mammals minus birds. Estimates for metabolic traits are given as the difference between traits: c) RMR minus BMR, d) MMR minus BMR, and e) MMR minus RMR. Estimates for oxygen analysers are given as the difference between types: f) zirconia-cell minus fuel-cell, g) paramagnetic minus fuel-cell, and h) paramagnetic minus zirconia-cell. Estimates for each parameter were considered statistically significant when their 95% confidence interval (CI) did not overlap with zero (Table S2). See main text for effects of location and interval duration.

Table S1. Estimates of repeatability for metabolic rates of endotherms

Study	Location	Metabolic trait	Taxa	Oxygen analyser	Statistic	Repeatability estimate	Interval (days)	Sample size	Reference
1	Lab	MMR	Mammal	Zirconia-cell	τ	0.809	1.0	35	(Friedman et al., 1992)
2	Lab	BMR	Mammal	Zirconia-cell	*r*	0.929	1.0	61	(Hayes et al., 1992)
2	Lab	MMR	Mammal	Zirconia-cell	*r*	0.787	1.0	61	(Hayes et al., 1992)
3	Wild	MMR	Mammal	Zirconia-cell	*r*	0.020	547.5	19	(Chappell et al., 1995)
3	Wild	MMR	Mammal	Zirconia-cell	*r*	0.380	12.0	34	(Chappell et al., 1995)
3	Wild	MMR	Mammal	Zirconia-cell	*r*	0.400	12.0	50	(Chappell et al., 1995)
3	Wild	MMR	Mammal	Zirconia-cell	*r*	0.470	547.5	21	(Chappell et al., 1995)
4	Lab	MMR	Bird	Zirconia-cell	*r*	0.900	0.1	11	(Chappell et al., 1996)
4	Lab	MMR	Bird	Zirconia-cell	*r*	0.901	28.0	31	(Chappell et al., 1996)
4	Lab	MMR	Bird	Zirconia-cell	*r*	0.930	56.0	30	(Chappell et al., 1996)
4	Lab	MMR	Bird	Zirconia-cell	*r*	0.517	180.0	22	(Chappell et al., 1996)
4	Lab	MMR	Bird	Zirconia-cell	*r*	-0.190	210.0	52	(Chappell et al., 1996)
5	Wild	MMR	Bird	Zirconia-cell	*r*	0.150	112.0	12	(Swanson and Weinacht, 1997)
6	Lab	RMR	Mammal	Zirconia-cell	τ	0.690	14.7	30	(Hayes et al., 1998)
7	Wild	BMR	Bird	Paramagnetic	τ	0.350	98.6	19	(Bech et al., 1999)
7	Wild	BMR	Bird	Paramagnetic	τ	0.520	192.5	8	(Bech et al., 1999)
8	Wild	MMR	Mammal	Zirconia-cell	*r*	0.390	68.0	34	(Hayes and O'Connor, 1999)
9	Lab	BMR	Bird	CO_2 only	*r*	0.890	4.0	28	(Hõrak et al., 2002)
9	Lab	BMR	Bird	CO_2 only	*r*	0.840	8.0	28	(Hõrak et al., 2002)
9	Lab	BMR	Bird	CO_2 only	*r*	0.650	120.0	14	(Hõrak et al., 2002)
10	Lab	RMR	Mammal	Zirconia-cell	*r*	0.620	1.0	41	(Chappell et al., 2004)
10	Lab	MMR	Mammal	Zirconia-cell	*r*	0.640	1.0	41	(Chappell et al., 2004)
10	Lab	RMR	Mammal	Zirconia-cell	*r*	0.550	2.0	16	(Chappell et al., 2004)
10	Lab	MMR	Mammal	Zirconia-cell	*r*	0.770	2.0	16	(Chappell et al., 2004)
10	Lab	RMR	Mammal	Zirconia-cell	*r*	0.710	3.0	7	(Chappell et al., 2004)
10	Lab	MMR	Mammal	Zirconia-cell	*r*	0.740	3.0	7	(Chappell et al., 2004)
11	Lab	BMR	Mammal	Zirconia-cell	*r*	0.720	35.0	40	(Książek et al., 2004)
12	Lab	BMR	Mammal	Zirconia-cell	τ	0.560	30.0	64	(Labocha et al., 2004)

13	Lab	MMR	Mammal	Zirconia-cell	*r*	0.312	28.0	20	(Rezende et al., 2004)
13	Lab	MMR	Mammal	Zirconia-cell	*r*	0.551	28.0	20	(Rezende et al., 2004)
13	Lab	MMR	Mammal	Zirconia-cell	*r*	0.792	28.0	19	(Rezende et al., 2004)
13	Lab	MMR	Mammal	Zirconia-cell	*r*	0.741	28.0	19	(Rezende et al., 2004)
13	Lab	MMR	Mammal	Zirconia-cell	*r*	0.780	56.0	19	(Rezende et al., 2004)
13	Lab	MMR	Mammal	Zirconia-cell	*r*	0.572	56.0	20	(Rezende et al., 2004)
14	Lab	RMR	Mammal	Zirconia-cell	*r*	0.490	1.0	48	(Rezende et al., 2005)
14	Lab	RMR	Mammal	Zirconia-cell	τ	0.868	1.0	48	(Rezende et al., 2005)
14	Lab	MMR	Mammal	Zirconia-cell	τ	-0.098	1.0	47	(Rezende et al., 2005)
14	Lab	MMR	Mammal	Zirconia-cell	*r*	0.134	1.0	47	(Rezende et al., 2005)
14	Lab	MMR	Mammal	Zirconia-cell	*r*	0.420	1.0	48	(Rezende et al., 2005)
14	Lab	MMR	Mammal	Zirconia-cell	τ	0.816	1.0	48	(Rezende et al., 2005)
15	Lab	BMR	Bird	Paramagnetic	τ	0.567	915.0	36	(Rønning et al., 2005)
15	Lab	BMR	Bird	Paramagnetic	τ	0.571	48.0	39	(Rønning et al., 2005)
16	Lab	BMR	Mammal	Zirconia-cell	τ	0.493	2.0	66	(Sadowska et al., 2005)
16	Lab	BMR	Mammal	Zirconia-cell	τ	0.548	2.0	284	(Sadowska et al., 2005)
16	Lab	BMR	Mammal	Zirconia-cell	τ	0.600	2.0	87	(Sadowska et al., 2005)
16	Lab	BMR	Mammal	Zirconia-cell	τ	0.616	2.0	222	(Sadowska et al., 2005)
16	Lab	MMR	Mammal	Zirconia-cell	τ	0.393	2.0	116	(Sadowska et al., 2005)
16	Lab	MMR	Mammal	Zirconia-cell	τ	0.432	2.0	222	(Sadowska et al., 2005)
16	Lab	MMR	Mammal	Zirconia-cell	τ	0.472	2.0	284	(Sadowska et al., 2005)
16	Lab	MMR	Mammal	Zirconia-cell	τ	0.532	2.0	87	(Sadowska et al., 2005)
16	Lab	MMR	Mammal	Zirconia-cell	τ	0.333	2.0	284	(Sadowska et al., 2005)
16	Lab	MMR	Mammal	Zirconia-cell	τ	0.476	2.0	116	(Sadowska et al., 2005)
16	Lab	MMR	Mammal	Zirconia-cell	τ	0.540	2.0	222	(Sadowska et al., 2005)
16	Lab	MMR	Mammal	Zirconia-cell	τ	0.588	2.0	66	(Sadowska et al., 2005)
16	Lab	MMR	Mammal	Zirconia-cell	τ	0.654	2.0	87	(Sadowska et al., 2005)
17	Lab	RMR	Bird	Fuel-cell	τ	0.626	8.0	27	(Vézina and Williams, 2005)
17	Lab	RMR	Bird	Fuel-cell	τ	0.516	162.0	37	(Vézina and Williams, 2005)
17	Lab	RMR	Bird	Fuel-cell	τ	0.445	188.0	24	(Vézina and Williams, 2005)
17	Lab	RMR	Bird	Fuel-cell	τ	0.287	196.0	24	(Vézina and Williams, 2005)
18	Wild	BMR	Mammal	Zirconia-cell	*r*	-0.099	142.0	22	(Bozinovic, 2007)

19	Lab	BMR	Mammal	Zirconia-cell	*r*	0.007	60.5	85	(Russell and Chappell, 2007)
20	Wild	RMR	Mammal	Fuel-cell	*r*	0.540	12.5	19	(Szafrańska et al., 2007)
20	Wild	RMR	Mammal	Fuel-cell	τ	0.550	12.5	19	(Szafrańska et al., 2007)
20	Wild	RMR	Mammal	Fuel-cell	τ	0.070	16.8	13	(Szafrańska et al., 2007)
20	Wild	RMR	Mammal	Fuel-cell	*r*	0.250	16.8	13	(Szafrańska et al., 2007)
20	Wild	RMR	Mammal	Fuel-cell	*r*	0.620	149.5	29	(Szafrańska et al., 2007)
20	Wild	RMR	Mammal	Fuel-cell	τ	0.630	149.5	29	(Szafrańska et al., 2007)
21	Lab	BMR	Bird	Fuel-cell	τ	0.600	24.7	18	(Versteegh et al., 2008)
22	Wild	BMR	Mammal	Fuel-cell	τ	0.340	5.4	43	(Boratyński and Koteja, 2009)
22	Wild	MMR	Mammal	Fuel-cell	τ	0.340	5.4	54	(Boratyński and Koteja, 2009)
22	Wild	BMR	Mammal	Fuel-cell	τ	0.230	56.4	99	(Boratyński and Koteja, 2009)
22	Wild	MMR	Mammal	Fuel-cell	τ	0.210	56.4	107	(Boratyński and Koteja, 2009)
23	Wild	BMR	Bird	Paramagnetic	τ	0.404	28.0	65	(Broggi et al., 2009)
23	Wild	BMR	Bird	Paramagnetic	τ	0.356	154.0	93	(Broggi et al., 2009)
23	Wild	BMR	Bird	Paramagnetic	τ	0.324	380.0	48	(Broggi et al., 2009)
24	Lab	RMR	Mammal	Fuel-cell	τ	0.240	21.0	13	(Cortes et al., 2009)
25	Lab	RMR	Mammal	Paramagnetic	*r*	0.580	15.0	238	(Duarte et al., 2010)
25	Lab	RMR	Mammal	Paramagnetic	*r*	0.380	110.0	17	(Duarte et al., 2010)
25	Lab	RMR	Mammal	Paramagnetic	*r*	0.590	110.0	16	(Duarte et al., 2010)
26	Wild	RMR	Mammal	Fuel-cell	*r*	0.830	24.3	22	(Larivee et al., 2010)
26	Wild	RMR	Mammal	Fuel-cell	*r*	0.880	24.3	12	(Larivee et al., 2010)
26	Wild	RMR	Mammal	Fuel-cell	*r*	0.098	196.0	27	(Larivee et al., 2010)
27	Wild	BMR	Bird	Paramagnetic	τ	0.143	60.0	72	(Bouwhuis et al., 2011)
27	Wild	BMR	Bird	Paramagnetic	τ	-0.050	91.5	55	(Bouwhuis et al., 2011)
28	Wild	MMR	Bird	Fuel-cell	*r*	0.648	17.4	54	(Chappell et al., 2011)
28	Wild	MMR	Bird	Fuel-cell	*r*	0.365	430.0	52	(Chappell et al., 2011)
29	Lab	BMR	Mammal	Fuel-cell	τ	0.680	14.0	12	(Gonzalez et al., 2012)
30	Lab	BMR	Bird	Fuel-cell	τ	0.460	0.5	16	(Kaseloo et al., 2012)
30	Lab	BMR	Bird	Fuel-cell	τ	0.760	0.5	16	(Kaseloo et al., 2012)
31	Wild	RMR	Mammal	Fuel-cell	τ	0.010	171.0	92	(Careau et al., 2013)
32	Lab	MMR	Bird	Zirconia-cell	*r*	0.350	14.0	22	(Swanson and King, 2013)
33	Wild	RMR	Mammal	Fuel-cell	τ	0.330	84.0	22	(Szafranska et al., 2013)

34	Lab	BMR	Bird	Fuel-cell	τ	0.250	16.1	60	(Careau et al., 2014)
34	Lab	MMR	Bird	Fuel-cell	τ	0.520	16.1	60	(Careau et al., 2014)
35	Lab	RMR	Mammal	Fuel-cell	τ	0.420	92.5	49	(Guenther et al., 2014)
36	Lab	BMR	Bird	Fuel-cell	τ	0.820	6.0	10	(Jacobs and McKechnie, 2014)
37	Lab	BMR	Mammal	Fuel-cell	τ	0.500	35.0	26	(Sichova et al., 2014)
37	Lab	BMR	Mammal	Fuel-cell	τ	0.370	533.0	56	(Sichova et al., 2014)
38	Wild	BMR	Bird	Fuel-cell	τ	0.420	30.0	15	(Cortes et al., 2015)
38	Wild	BMR	Bird	Fuel-cell	τ	0.320	33.0	41	(Cortes et al., 2015)
38	Wild	BMR	Bird	Fuel-cell	τ	0.290	39.0	27	(Cortes et al., 2015)
38	Wild	MMR	Bird	Fuel-cell	τ	0.490	26.0	14	(Cortes et al., 2015)
38	Wild	MMR	Bird	Fuel-cell	τ	0.000	32.0	43	(Cortes et al., 2015)
38	Wild	MMR	Bird	Fuel-cell	τ	0.000	36.0	29	(Cortes et al., 2015)
39	Wild	BMR	Bird	Fuel-cell	τ	0.340	252.0	28	(Mathot et al., 2015)

Metabolic trait: BMR=basal metabolic rate, RMR=resting metabolic rate; MMR=maximum metabolic rate; Statistic = Pearson's (*r*) or intra-class (τ) correlation coefficient.

Table S2. Parameter estimates and 95 % confidence intervals (CI) from post hoc comparisons among different levels of categorical factors in their effects on the repeatability of metabolic rate. Estimates are given for the difference between levels of each categorical predictor. See main text for effects of location and interval duration.

Predictor	Comparison	Median difference	Lower 95% CI	Upper 95% CI
Statistic	intra-class – Pearson's correlation coefficient	-0.13	-0.33	0.09
Taxa	mammal – bird	-0.03	-0.18	0.15
Metabolic trait	resting – basal metabolic rate	-0.01	-0.15	0.14
	maximum –basal metabolic rate	-0.02	-0.22	0.22
	maximum – resting metabolic rate	-0.01	-0.25	0.24
Oxygen analyser	zirconia – fuel-cell	0.03	-0.11	0.18
	paramagnetic – fuel-cell	-0.10	-0.27	0.08
	paramagnetic – zirconia-cell	-0.13	-0.34	0.07

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