

Supplementary Table S1. Matrix of Spearman rank correlation coefficients for median T_{pref} values obtained from different measuring methods, and field body temperatures (T_b), for 30 male lizard individuals of *Atlantolacerta andreanskyi* at Oukaimeden. Correlations with an asterisk in parentheses were significant at $P < 0.05$, but not significant after Bonferroni correction over all analyses.

	thermal-10hL IR	photothermal-10hL	thermal-10h	photothermal-10h	thermal-2h	photothermal-2h
photothermal-10hL	-0.214396					
thermal-10h	0.322443	-0.303369				
photothermal-10h	-0.247018	0.414855 (*)	-0.447865 (*)			
thermal-2h	0.241558	0.042235	0.218018	-0.350649		
photothermal-2h	0.369162	0.324431	0.131974	0.009881	0.350649	
Tb (field)	0.109924	-0.322847	-0.046537	0.186325	-0.188735	0.120684

Supplementary Table S2. Matrix of Spearman rank correlation coefficients for median T_{pref} values obtained from different measuring methods, and field body temperatures (T_b), for 23 male lizard individuals of *Podarcis vaucheri* at Oukaimeden. Correlations with an asterisk in parentheses were significant at $P < 0.05$, but not significant after Bonferroni correction over all analyses.

	thermal-10hL IR	photothermal-10hL	thermal-10h	photothermal-10h	thermal-2h	photothermal-2h
photothermal-10hL	-0.082769					
thermal-10h	0.234387	-0.012346				
photothermal-10h	-0.007522	0.250731	-0.022028			
thermal-2h	0.208977	0.358824	-0.297977	0.264706		
photothermal-2h	0.282036	0.183936	0.083333	-0.303922	-0.186813	
Tb (field)	-0.001129	-0.462138 (*)	0.015824	0.067232	-0.196281	-0.463804

Supplementary Table S3. Matrix of Spearman rank correlation coefficients for median T_{pref} values obtained from different measuring methods, and field body temperatures (T_b), for 12 male lizard individuals of *Podarcis vaucheri* at Oukaimeden. Correlations with an asterisk in parentheses were significant at $P < 0.05$, but not significant after Bonferroni correction over all analyses.

	thermal-10hL IR	photothermal-10hL	CarreteroIR	Carretero100W	SinervoIR	Sinervo100W
photothermal-10hL	0.378133					
thermal-10h	0.145455	0.164010				
photothermal-10h	0.409091	0.387245	0.388792			
thermal-2h	0.445455	0.710708 (*)	0.345455	0.800000 (*)		
photothermal-2h	0.078788	0.097265	0.378133	0.281818	0.333333	
Tb (field)	-0.078788	-0.248485	0.095672	0.190909	0.127273	0.030303