

**Content of dataset:** Critical Thermal Maxima ( $CT_{max}$ ) and Critical Thermal Minima ( $CT_{min}$ ) and body weights of 304 male individuals belonging to 59 populations and 15 species of Iberian lizards (Dryad doi: 10.5061/dryad.1553pc3). Body weight,  $CT_{max}$  and  $CT_{min}$  available for all populations except the Moncayo/Soria/Spain population of *Podarcis muralis* for which  $CT_{min}$  was not measured.

**Dataset set used in two research manuscripts:** Intraspecific variation in lizard heat tolerance alters estimates of climate impact / Journal of Animal Ecology (doi: 10.1111/1365-2656.12914) and Heat tolerance is more variable than cold tolerance across species of Iberian lizards after controlling for intraspecific variation / Functional Ecology (in press).

**Author contributions:** Monasterio, Beukema and Gómes lead field (lizard sampling) and lab (estimation of thermal limits and measurement of body weights) work, and Monasterio and Araújo designed experiments. Herrando-Pérez conceived the idea of the two research manuscripts and submitted the data.

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