Figure 7 (a) Response curves estimated with bioclimatic envelope models (logistic regression) relating species distributions of three species of *Liolaemus* lizards in central Chile (see panel c) against mean annual air environmental temperatures (from Hijmans *et al.* 2005) (i.e. characterization of the realized niche for mean annual temperature); (b) empirical performance curves for the same species of *Liolaemus* (from F. Ferri-Yáñez, unpublished data) measured with sprint speed in laboratory conditions against body temperature (i.e. characterization of the fundamental niche for body temperature); and (c) geographical distributions of the three species of *Liolaemus* (from P.A. Marquet and C. Garín, unpublished data) overlaid on mean annual temperature.