**Bacterial Adaptations to Global Warming – Experimental Evidence**

A number of plausible and well-supported hypotheses have been made, proposing effects on species distribution, phenology and abundance (Walther *et al.*, 2002; Pearman *et al.*, 2008), applying findings to the prediction of how climate change will affect the Earth’s ecosystems as climate change intensifies remains a difficult task.

Some useful general rules, however, have been formulated. The Bergmann’s temperature-size rule, which notes that organisms are usually bigger in colder environments (Atkinson and Sibly, 1997; Millien *et al.*, 2006), although most commonly applied to endotherms, and although the applicability of this rule with regards to microbes had been poorly studied, some literature does exist on bacterial adaptation to raising temperatures.