

Neural Reuse and Cognitive Homology, *Behavioral and Brain Sciences* 33 (2010) 268-269

Neural reuse theories suggest that, in the course of evolution, a brain structure may acquire or lose a number of cognitive *uses* while maintaining its cognitive *workings* (or low-level operations) fixed. This, in turn, suggests that *homologous* structures may have very different cognitive uses, while sharing the same workings. And this, essentially, is homology thinking applied to brain function.