## ACOUSTICS2008/1266 The Auditory Brainstem Response (ABR) Across Mammalian Species

Robert Burkard

University at Buffalo, Department of Rehabilitation Science, 511 Kimball Tower, Buffalo, NY 14214, USA

The auditory brainstem response (ABR) has been reported in a variety of mammalian species. I have published ABR studies in mammalian species including humans, gerbils, cats, rats, bats, and mice. In many cases, the non-human work was designed to extend observations made in humans. I will discuss data that addresses the variability in the slope of the ABR latency/intensity function across animal species. I will compare ABRs in humans and in gerbils to stimulus manipulations such as click level, click rate, noiseburst risetime and level of masking noise. I will discuss the effects of high stimulus rates across age in the kitten/cat, and compare this to reports in humans from the literature. I will end by discussing my views of the advantages as well as the challenges of using animal models when interested in human normative or pathologic processes.