



**Student Projects in Music Therapy & Physiology: Fall 2013  
Montclair State University**

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**ABSTRACT**

This poster presents highlights of several experimental self-subject research trials conducted by music therapy students in the David Ott Laboratory for Music and Health at Montclair State University. The students explored the effects of music on physiological responses by manipulating musical elements such as instrumentation, genre, scale quality and lyrical content. Of particular interest is an experiment that utilized a 19-channel EEG brain scanner to display brain activation via 3D loreta imaging, while listening to various musical stimuli. Autonomic measures monitored in these experiments were electrodermal activity (EDA), heart rate variability (HRV), blood volume pulse (BVP) and Heart Rate (HR). The poster also presents some of the limitations that were identified by the students while conducting the experiments and their implications. [The author can be reached at [miller@biofeedback.net](mailto:miller@biofeedback.net)]