



BIOFEEDBACK FOUNDATION OF EUROPE PILOT RESEARCH PROJECT

Autism Spectrum Disorder (ASD)

Project Title:

Autism, the Family Brain, and Neurofeedback

Team Leader:

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Project Summary:

The proposed research anticipates the collection of 3 types of data from participants who have been diagnosed with Autism Spectrum Disorder (ASD), and from parent(s) of those participants. The three types of data are baseline Electroencephalography (EEG), baseline Heart Rate Variability (HRV), and family contact patterns using a 3-generation family genogram as the interview tool.

Based on the baseline data from the participant, neurofeedback (NFB) and heart rate variability (HRV) training protocols will be developed. The goal is to assess the impact of brain wave and HRV training on the symptoms of autism. At the end of the training, a baseline of the participants and parent(s) EEG and HRV will again be measured.

The research also seeks to look at the relationship between changes in the neural activation patterns of the NFB-trained individual and non-trained parent(s). In addition, it seeks to ascertain and characterize the emotional regulation of contact patterns over 3 generations in families with a member diagnosed with ASD.