

The new theme for Joy's 2018 call for proposals is:

Novel methods and approaches for sensing, evaluating, modulating and regulating mood and emotional states.

As a first step – **please submit a 1 page letter of intent** that includes the motivation for the research, methodology, expected outcome and expected impact. In addition, the abstract will provide an explanation about the novel aspects of the research, whether it is inter-disciplinary in nature and/or “high risk, high gain”.

The one pager can include a figure but does not include references, which can be submitted on a separate page.

½ a page about you and why you/your group should execute the study.

PhD students and post-doc fellows will also include a separate letter of support from their supervisor.

Please submit the LOI to grant@joyventures.com

Research proposals that will be considered for the 2018 grant will include research, in various stages, that will eventually provide novel solutions for at least one of the following objectives:

- Regulation of emotional states: Identify and characterize emotional states; understand the mechanisms underlying emotion regulation; research of positive affect and processes that support and enhance formation of positive habits.
- Non-invasive methods to manage and improve emotional states and mood- may include, but not limited to sensory/bodily influences on such regulation; neuromodulation techniques, enhancement of brain plasticity.
- Non-invasive, real-time sensing techniques, continuous monitoring and non-invasive evaluation of emotional states

May include, but not limited to:

- Study of parameters from various anatomic structures (such as skin, face, muscles or eyes);
- Continuous sensing of hormones and neurotransmitters; measurements of surrogate markers of emotional states in humans
- Behavioral and social data as surrogate markers for emotional state
- Multiparametric big data approaches for understanding, monitoring and predicting vulnerability to dysregulated emotional states or unstable mood –may include, but not limited to setting new physiological parameters, applying machine learning and artificial intelligence: making new sense out of existing data sets (such as heart rate, GSR, EOG, EMG, oximetry, EEG)

We invite researchers from any discipline, including: neuroscience, psychology, life sciences, medicine, engineering, computer science, physics, humanities and others to submit.

Please feel free to communicate directly and send any questions to: hagit@joyventures.com