



## Neuronetics, Inc. Celebrates Dr. Charles Epstein's Contributions to Magnetic Stimulation Research

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### Emory University's 13th Annual Celebration of Technology and Innovation Honors Dr. Epstein with Start-Up of the Year Award for Pioneering Technology Utilized in NeuroStar Advanced Therapy for the Treatment of Depression

MALVERN, Pa., March 21, 2019 /PRNewswire/ -- Neuronetics, Inc. (NASDAQ: STIM), a commercial stage medical technology company focused on designing, developing and marketing products that improve the quality of life for patients who suffer from psychiatric disorders, applauds Dr. Charles M. Epstein, the neurologist who introduced magnetic stimulation at Emory University, for receiving the Start-Up of the Year Award at the 13<sup>th</sup> Annual Celebration of Technology and Innovation. The annual program is hosted by [Emory University's Office of Technology Transfer](#) and recognizes faculty entrepreneurs and their innovative discoveries. Dr. Epstein's magnetic stimulation research led to the development of Neuronetics' first commercial product, NeuroStar Advanced Therapy.

Unfortunately, 5.5 million adults in the U.S. with depression do not see relief from antidepressant medication.<sup>1,2,3</sup> Dr. Epstein's research and development in the field contributed to NeuroStar Advanced Therapy, a non-drug treatment that can help depression patients who don't see success with medication alone.

In 2001, Emory University and Neuronetics entered into a license agreement for Dr. Epstein's research in magnetic stimulation. He co-invented the iron core technology used in the NeuroStar Advanced Therapy System, the first transcranial magnetic stimulation (TMS) system to be cleared by the FDA in 2008 for the treatment of depression. Since that time, the NeuroStar Advanced Therapy system has delivered more than 2.3 million treatments to adult patients with depression.

"I've been privileged for many years to conduct research at Emory, and it is incredibly gratifying to see the direct impact of that research in the continued success of the NeuroStar technology in treating thousands of patients who have depression," said Dr. Epstein. "The goal of our research has always been to improve lives and I'm thankful for the partnership with Neuronetics that has helped foster it. It is an honor to be recognized for this work alongside my dedicated colleagues, and I'm confident we will continue to innovate and create in the hopes of making a lasting impact for our patients."

Dr. Epstein initiated studies that found a more efficient way to produce magnetic fields using a smaller device that requires less energy and produces less heat. NeuroStar Advanced Therapy, the only TMS system utilizing Dr. Epstein's patented coil design, uses magnetic pulses to stimulate areas of the brain that are underactive in depression. It is typically administered daily in a doctor's office for four to six weeks, with treatment sessions performed in as little as 19 minutes.\* Unlike electroconvulsive therapy (ECT), NeuroStar Advanced Therapy is non-invasive and allows patients to resume daily activities immediately following their treatment. It is also free from systemic side effects often associated with antidepressant medications. The most common side effect is pain or discomfort at or near the treatment site.<sup>4</sup>

"We are grateful for Dr. Epstein, his dedication and his many contributions to science, which springboarded the launch of NeuroStar Advanced Therapy and ultimately allowed us to transform lives and offer hope to those who haven't seen success with antidepressant medication," said Greg Harper, Vice President of Product Development and Operations at Neuronetics, Inc. "On behalf of Neuronetics, the patients with depression and their families who have already benefitted from this technology, and those who will benefit from it in the future, I want to sincerely thank Dr. Epstein for his groundbreaking research and congratulate him on this well-deserved award."

The 13<sup>th</sup> Annual Celebration of Technology and Innovation will be held on March 21 at the Emory Conference Center Hotel in Atlanta, Georgia. To see the complete list of this year's awardees, visit Emory University's [award page](#). Information about past winners can be found on the [Office of Technology Transfer website](#). For more information about Neuronetics, visit [www.neuronetics.com](http://www.neuronetics.com).

#### About Neuronetics

Neuronetics, Inc. is a commercial-stage medical technology company focused on designing, developing, and marketing products that improve the quality of life for patients who suffer from psychiatric disorders. Our first commercial product, the NeuroStar® Advanced Therapy System, is a non-invasive and non-systemic office-based treatment that uses transcranial magnetic stimulation, or TMS, to create a pulsed, MRI-strength magnetic field that induces electrical currents designed to stimulate specific areas of the brain associated with mood. The system is cleared by the United States Food and Drug Administration, or FDA, for the treatment of Major Depressive Disorder in adult patients who have failed to achieve satisfactory improvement from prior antidepressant medication in the current episode. Additional information can be found at [www.neuronetics.com](http://www.neuronetics.com).

<sup>1</sup> Kessler RC, et al. JAMA, (2003)

<sup>2</sup> <https://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml>, accessed 1/16/2018

<sup>3</sup> Gaynes BN, et al., Cleveland Clinic Journal of Medicine 2008;75(1):57-66

\* Treatment time may vary depending on doctor's recommendation.

<sup>4</sup> Janicak PG, et al. (2008). *J Clin Psychiatry*, 69(2):222-232

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