

**ASIOA Member in the News:**

## **Dr. Samba Reddy Cracks the Neuro-code for Treating Catamenial Epilepsy**

November 15, 2017

Texas A&M University announced that D. Samba Reddy, PhD, RPh has cracked the neuronal code of tonic inhibition, the electrical circuit shunting force mediated by extrasynaptic delta GABA-A receptors in the hippocampus, as the major regulator of the catamenial seizures. This opens up the possibility to start clinical trials that focus on treating catamenial epilepsy with synthetic neurosteroid agents that enhance tonic inhibition.



<https://vitalrecord.tamhsc.edu/researchers-crack-neuro-code-for-treating-menstrual-period-epilepsy/>

For the past two decades, Reddy has been searching for answers to catamenial epilepsy, a subset of chronic epilepsy that causes a dramatic increase in seizures during a women's menstrual periods.

This breakthrough work was published in the October 2017 issue of the *Journal of Neuroscience Research*.

Dr. Reddy is a Professor of Neuroscience and Experimental Therapeutics at Texas A&M College of Medicine. His lab has been conducting pioneering investigations on neurosteroid interactions at synaptic and extrasynaptic GABA-A receptors. He directs an NIH U01 project on organophosphate intoxication and a DOD project on post-traumatic epilepsy.

Dr. Reddy got his Pharmacy and PhD degrees in 1998 and did a postdoctoral fellowship at the NIH, Maryland, where he began his pioneering work on the role of neurosteroids in catamenial epilepsy.

Dr. Reddy is an elected fellow of the American Association for the Advancement of Science (AAAS), American Association of Pharmaceutical Scientists (AAPS), and American Epilepsy Society (AES). In 2016, Reddy has been inducted as Fellow of American Epilepsy Society. He has authored or co-authored over 175 peer-reviewed publications and serves as the Editor the AES journal *Epilepsy Currents*.