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Neuroimaging-Nanosensing Biochemistry in the Brain



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A sleek nanobiosensor, BRODERICK PROBE*, smaller than a human hair, is designed to diagnose and treat debilitating neurodegenerative and psychiatric brain disorders. This chapter focusses on this unique series of nanobiosensors specifically as a miniature nanosurgical biomedical device for the trauma patient and for the first time, the traumatic brain is sensed, that is, these nanobiosensors sense or see inside the brain of the patient, actually intra-operatively. In the epilepsy patient, in particular, these sensors perform Live Imaging during resection surgery needed to treat the epilepsy patient who presents with seizures intractable to pharmacotherapeutics, that is, those patients who are unable to optimally respond to the pharmaceutical regimen often used effectively in the course of medical treatment for the epilepsy patient.

Biography

Patricia Ann Broderick has completed her PhD Degree in Pharmacology at St. John's University, College of Arts and Sciences, a Post-doctoral fellowship at the Albert Einstein College of Medicine/Montefiore Hosp., Depts. of Psychiatry and Neuroscience and Research Associate Position at Cornell University, Dept. of Neurology, NY. She is the inventor of several patents, held by CUNY and in part by NYU and now held by Eazysense Nanotechnologies Inc., for manufacturing and worldwide marketing the BRODERICK PROBE®. She founded Indian Angel Network® and serves as President of the Board of Directors. She also serves as Editor-in-Chief, American Field Editor, Academic Editor and Board Member and Editorial Boards worldwide. She has published extensively, over 600 publications, demonstrations and presentations, has founded the Broderick Brain Foundation, and is inventor of the BRODERICK PROBE®, named in honor of her father. She is author of several books including one in press, Neuroimaging-Nanosensing Biochemistry in Brain (Pan Stanford Publishing Pte. Ltd, Singapore) and is humble Awardee of numerous prestigious honors, among which, Inner Circle Executives, Acquisitions International Global/Corporate America, International Assc. of Top Professionals, Nat'l Assc. Distinguished Professionals. She is honored throughout her career, presently, several front cover magazines globally recognize her work, 2017, 2018 and 2019, "Top 100 Registry Educator" and others list, "Best Biosensor" "Industry Professor", "Business Woman", "CUTV Radio & TV Press" and "Empowering Professionals".

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