

13th International Conference on

NEUROLOGY AND NEUROSURGERY

June 19-21, 2017 Paris, France

Is the safe method evaluate Nanotechnologic products in Neuronal modulation of Neuronal oscillations

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Undoubtedly, the greatest contribution of nanobiotechnology will be at neuroscience which still having a cloak of secrecy over and waiting to be discovered millions of issue to be clarified. Neuropharmacology and nanobiotechnological developments in the field of tissue engineering will provide the foundation stone in the development of neuroscience. Get nutrients, dietary supplements and many drugs do not cross the blood brain barrier. The presence of this barrier, restricts medical interventions in the treatment of neurodegenerative and psychiatric diseases. Besides, preventing several brain diseases or intervention to psychiatric conditions, prevents showing antioxidant properties of molecules and also allows us to improve and slowing down the aging brain. The aim of our study is, molecules that can pass through the barrier at high rates, to increase the success of the production of new agents in the treatment of neural diseases. The first phase of our project is completed, it is intended to activate the cholinergic system using nanotechnology. Cholinergic system, increases awareness by activating visual, audial, and almost all the senses. The R&D project that we realized by support of Ministry of Science and Industry, we have developed a product that supports the functional antioxidant which is first and only developed in our country. The useful molecules in *Rosmarinus officinalis* and *Olea Europaea* are purified. Product of our study of the effect by inhibiting acetylcholinesterase was implicated microparticles using nanobiotechnologic methods. Microparticles are in no way affected by gastric acid and protecting all the bioactive molecules from gastric acid content. The impact of the product over Central Nervous System, investigated over 22 channels of 100 volunteers and evaluated with Electroencephalogram recording system plus program. The ASA program was used for analysis. The results obtained up to this time, the nanoparticle products, most notably frontal-temporal region, caused the increase in almost all parts of my brain alpha and beta frequency. It has been monitored that nanobiotechnological products we obtained in our study, were able to pass the blood brain barrier and the effect lasted up to 24 hours. Changes in the frequency of brain waves in the frontal and temporal regions showed that, it is effective in gathering concentration of the product and attention. The results indicate the center of nanotechnology products could be used in evaluating the bioavailability of neuronal oscillations in the central nervous system.

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