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Epilepsy: Next target of stem cell therapy

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Epilepsy is fourth common neurological disorder rummaging for its best treatment. Patients with epilepsy suffer through harsh psychological and behavioral changes and due to widespread superstitions; epileptic patients have to face constant discrimination and stigmatization from society. Epilepsy is an electric disturbance resulting from a disorderly discharge resulting in blackouts and fits. The present study is about how stem cell research is in forefront of medication for epilepsy. Epilepsy isn't easy to handle as it is a spectrum condition with a wide range of alteration and resulting types of seizures that varies individually. There is some imbalance in signals of neuron formation of burst and burst terminations are major role players in seizure stimulation. Several studies mark that these burst result in neural damage. Although, at present, different anti epileptic drugs (ADE) are available to minister seizures. But the dosages of ADE are always fluctuating in treatment tenures according to seizure and results are around 50% to 65%. These drugs target the abnormality of different chemical channels, whereas stem cells therapy aims on sending an army of neural stem cell to brain where they become neurons and head towards area in need of repair and regeneration. As for epilepsy, stem cell research is still in its infancy but it is considered that stem cells are able to integrate and repair the deep brain circuits.

Biography

Aparajita Srivastava is pursuing her Integrated M.Tech In Stem Cell Engineering At Barkatullah University ,Bhopal, India . She has earlier worked as writer for Bioinformat.com, the world's leading stem cell industry blog. My area of work included researching, writing and formatting articles about stem cell technologies and topics. She has published 3 review articles in International journals with high impact factor.

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