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Neurogenetic diseases and Catechins

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Catechins, a class of polyphenolic substances found in green tea, have been shown to have a wide range of medicinal effects. They may be able to aid in both the prevention and treatment of neurodegenerative disorders. By inhibiting cytokine production and inflammatory pathways, chelating metal ions, and scavenging free radicals, catechins have anti-inflammatory as well as antioxidant properties. They might prevent the phosphorylation of tau protein, the accumulation of amyloid beta, and the release of apoptotic proteins. They can also increase dopamine levels and decrease alpha-synuclein levels. These factors could all have an impact on neurodegenerative diseases. The biological, pharmacological, antioxidant, and metal chelation properties of catechins are being highlighted in studies of catechins' neuroprotective benefits with an emphasis on their capacity to activate several cellular pathways in the brain.

Biography

Dr. Mujaddad Ur Rehman and his team is working in Abbottabad University of Science and Technology Pakistan on different aspects of biological sciences. The basic focus of their research is genetic basis of neurogenetic disorders and potential therapies including herbal and local medicinal plants.

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