

Therapeutic potential of naringin in neurological disorders

Salman Ahmed, Haroon Khan, Michael Aschner, Muhammad
Mohtasheemul Hasan, Sherif T.S. Hassan

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Abstract

Neurological illnesses are multifactorial incurable debilitating disorders that may cause neurodegeneration. These diseases influence approximately 30 million people around the world. Despite several therapies, effective management of such disorders remains a global challenge. Thus, natural products might offer an alternative therapy for the treatment of various neurological disorders. Polyphenols, such as curcumin, resveratrol, myricetin, mangiferin and naringin (NRG) have been shown to possess promising potential in the treatment of neurogenerative illness. In this review, we have targeted the therapeutic potential of naringin as a neuroprotective agent. The overall neuroprotective effects and different possible underlying mechanisms related to NRG are discussed. In light of the strong evidence for the neuropharmacological efficacy of NRG in various experimental paradigms, it is concluded that this molecule should be further considered

and studied as a potential candidate for neurotherapeutics, focusing on mechanistic and clinical trials to ascertain its efficacy.

Highlights

- Neurological illnesses are multifactorial incurable debilitating disorders that may cause neurodegeneration.
- Neurological illnesses affect approximately 30 million people around the world.
- Effective management of such disorders remains a global challenge.
- Naringin has been shown possess outstanding therapeutic potential as a neuroprotective agent.
- Naringin affects multiple signaling pathways in its neuropharmacological efficacy.
- Naringin might be a potential candidate for neurotherapeutics.