



## Chloroplast genome sequencing of *Withania* species of high medicinal value

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### Abstract:

*Withania* genus of family Solanaceae is well known for its medicinal plants. Its two commonly found species in Pakistan are *Withania somnifera* and *Withania coagulans*. Several pharmacological activities of these plants including antinociceptive, anti-inflammatory, antidepressant, and anticoagulant potential have been reported. Previously, we identified, isolated and characterized several pharmacologically important compounds (withanolide and their derivatives) from *W. coagulans*. Our results support earlier reports that this plant has immense medicinal potential. Species of *Withania* are morphologically similar due to which identification of species is a challenge specially in dry or powder form. Recently, several studies reported whole chloroplast (cp) genome base markers as authentic, robust and effective tools for identification of species. In this study, chloroplast genome of *W. somnifera* and *W. coagulans* has been sequenced.



### Biography:

Furrakh Mehmood is currently working in Department of Biochemistry, Quaid-e-Azam University, Islamabad.

### Recent Publications:

1. Furrakh Mehmood et.al.-April 2020
2. Furrakh Mehmood et.al Malvaceae-Jan 2020
3. Furrakh Mehmood et.al Solanaceae-2019

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