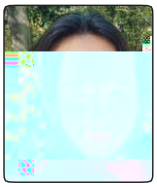
Abstract



Chloroplast genome sequencing of Withania species of high medicicinal 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 coagulens. Several pharmacological acitivites 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. coagulens. Our results support ealier reports that this plant has immense medicinal potential. Species of Withania are morphologically similar due to which identification of species is a challange 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:

Furrukh Mehmood is cuurently working in Department of Biochemistry, Quaid-e-Azam University, Islamabad.

Recent Publications:

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

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