GENETIC SYSTEMS IN ARTEMISIA L. I: ARTEMISIA TOURNEFORTIANA, A SPECIES WITH HIGH SEXUAL REPRODUCTIVE EFFICIENCY

Uma Bharti¹*, Gazala Jaffri Mir¹, Rinchen Gurmet¹, Eshan Sharma¹ and Namrata Sharma¹

¹Department of Botany, University of Jammu, Jammu 180006, India
Email: umabotany786@gmail.com

Received-14.07.2017, Revised-26.07.2017

Abstract: Present communication encompasses detailed studies on genetic system of Artemisia tournefortiana Reichb., (F. Asteraceae) sprawling at Rumtse, Khardong and Kharu areas of Ladakh region of Jammu & Kashmir, India. Species has high sexual reproductive efficiency and exhibits a stable genetic system with diploid chromosome constitution and high pollen stainability resulting in good seed set averaging 60.61±1.55 on open pollination. Plants of the species studied by us are based on x=9 and invariably exhibit 2n=18 as their chromosome number. Somatic analysis reveals presence of 16M and 2 SM chromosomes.

Keywords: Artemisia, Chromosome, Genetic system, Reproductive efficiency, Somatic analysis

REFERENCES


*Corresponding Author


