

Abstract

Pollen transfer between zoogamous plants is strongly influenced by spatial structure of plant population and functional traits of its vectors – pollinators. Spatial structure of plants can be described by attributes that may affect pollen transfer, such as population size, density, aggregation and composition of surrounding plants. Both the main pollinator groups and individual pollinators differ in pollen transfer distance, pollen carry-over capacity, food specialisation, preferences and sensoric abilities. Due to these differences, they vary in impact on pollen transfer in a different spatial structure of plant population. Understanding the impact of individual attributes of both of these components and their influence on pollination can help us to get a better idea of how sexual reproduction works at the plant population level.

Key words

pollination, plant-pollinator interactions, spatial structure of population, pollen transfer, pollinators, sexual reproduction of plants