

OVER VIEW

Pumpkin seeds, integral to the Cucurbitaceae family, exhibit a fascinating diversity that extends beyond their culinary and nutritional benefits. This study provides a thorough examination of the taxonomy, morphology, and genetic diversity of various pumpkin seed varieties. By tracing the history of pumpkin cultivation, from ancient practices to contemporary breeding techniques, we uncover the evolutionary and selective processes that have shaped the current spectrum of seed varieties.

The research explores the different species and subspecies of pumpkins, highlighting distinctive seed traits and adaptations. Special emphasis is placed on the genetic and phenotypic variations that contribute to the seeds' resilience, nutritional content, and agricultural value. Additionally, we investigate the role of pumpkin seeds in sustainable farming practices, including their use as a source of nutrition, oil, and bioactive compounds.

Through detailed taxonomic analysis and comparative studies, this research aims to deepen the understanding of pumpkin seed biodiversity and its implications for crop improvement and food security. By appreciating the intricate taxonomy of pumpkin seeds, we can better harness their potential, promoting innovative agricultural practices and contributing to the broader goals of sustainable development and biodiversity conservation.