

NEW FACTS CONCERNING THE VESICULAR TRANSPORT IN PLANT CELLS

Summary

Eukaryotic cells are characterized, among other traits, by a system of internal membranes. Between the organelles of the system there developed a kind of communication, ensuring the smooth functioning of the cells and of the whole organism. The organelles „communicate” among themselves, mainly due to vesicular transport. They are involved in numerous processes, mainly in the secretory pathway and endocytosis. Membranes and proteins are moved between organelles of the system through small structures called transporting vesicles and this process is known as vesi-

cular transport. Due to the comprehensiveness of the issue, the article focuses only on the secretory pathway. This pathway embraces the early secretory pathway, which runs from the endoplasmic reticulum (ER) to the cis-zone of the diktiom (D), transport by D and the late secretory pathway, including the export of proteins from D. In a greater detail are presented the latest developments on the issues related primarily to the transport from the ER to the cis-zone, and retrograde transport involving the retromer.