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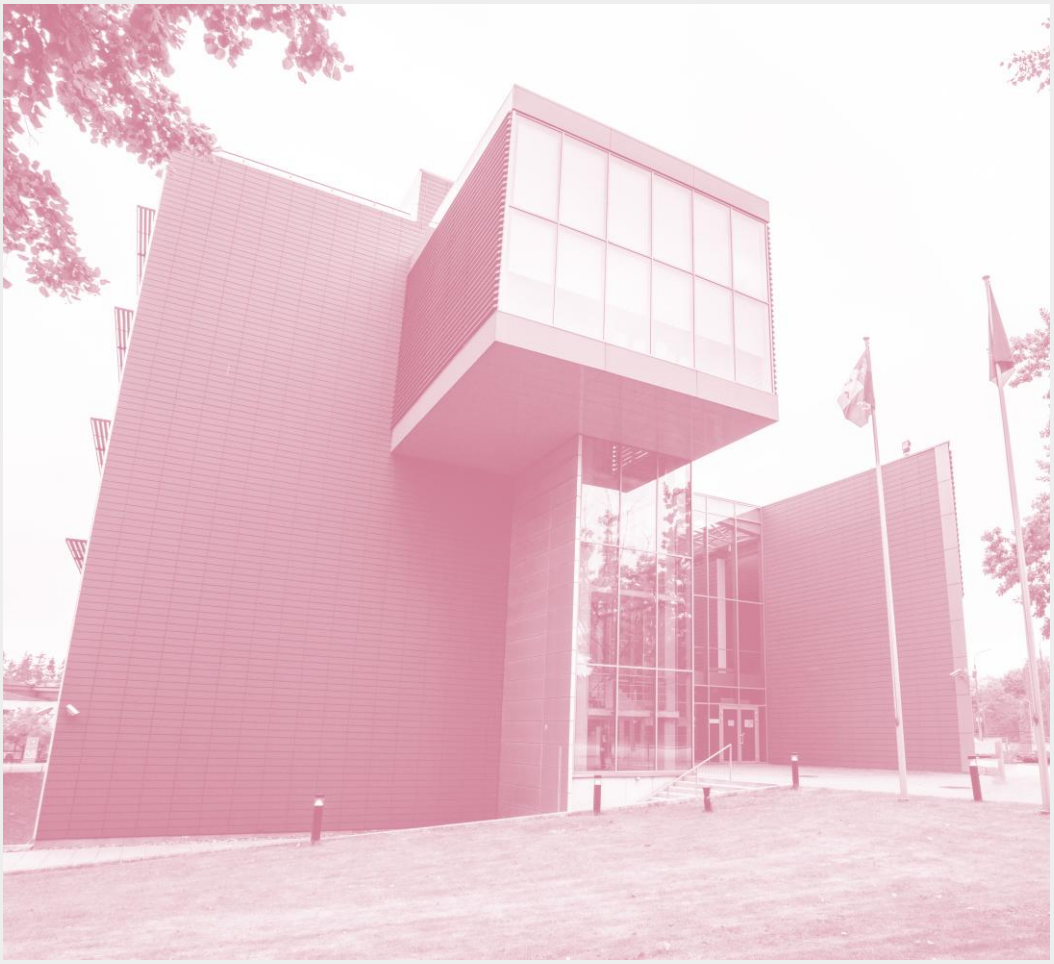
ABSTRACT BOOK



CONTEMPORARY PHARMACY: ISSUES, CHALLENGES AND EXPECTATIONS 2026

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The microscopic study of *Hierochloë odorata* (L.) P. Beauv leaves

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Background: Microscopic features of H. odorata leaves are important for diagnosing raw materials and detecting foreign impurities [1].

Aim: Identify the microscopic properties of H. odorata leaves.
Methods: Microscopic studies were carried out by light microscopy method [2].

Results: H. odorata leaves are isolateral and amphistomatic. The upper and lower epidermis consists of several types of cells: large, thick-walled, rhombic, located from the edge of the leaf to the center, alternating with rows of rectangular cells, which at their base contain tetracytic stomata and very narrow elongated cells covering the veins. Silicate cells are occasionally found in the rows adjacent to the stomata. Large prismatic crystals are located along the veins. Single-celled retort-shaped hairs are located along the edge of the leaf blade and large veins, directed towards the bottom of the leaf blade. The cross section of the leaf is represented by mesophyll, located between the upper and lower epidermis and containing large cavities in the middle. Large motor cells are located under the upper epidermis. Collateral closed bundles are found in the veins.

Conclusions: The main diagnostic anatomical features of H. odorata leaves have been identified.

References

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