

SECOND INTERNATIONAL CONFERENCE «INTEGRATION NETWORK OF THE PHARMACEUTICAL ECOLOGY - 2024»

MICROSCOPY OF VEGETATIVE ORGANS OF DATURA STRAMONIUM L. IN ANTHROPOGENIC ECOTOPES Koroleva K.A. 3th year student of Institute of Pharmacy, Fedorova L.V. Koroleva Ksenia Aleksandrovna

I.M. Sechenov First Moscow State Medical University, Moscow, Russia



magnification (40x/0.65).



I)Covering tissue: 1.Epidermis II)Primary bark: 3.Chlorenchyma **III**)Central axial cvlinder: 4.Phloem 5.Cambium 6. Pericyclic sclerenchyma 7.Xylem vessels 8. Libriform



Fig. 8. Lower epidermis of the

leaf of Datura stramonium.



Fig.4. Cross section of the root of Datura stramonium (magnification. x10)



Fig.5. Cross section of the stem of Datura stramonium (magnification. x40)

2. Lamellar collenchyma

Fig. 3. Fruit of Datura stramonium. Side and

top view.

stramonium are amphistomatic. The cells of the upper and lower epidermis are irregularly shaped. The stomatal apparatus of the upper and lower epidermis of the leaf is of the anomocytic type. The stomatal coefficient on the upper epidermis is 22, and on the lower epidermis it is 31. The stomatal index on the upper epidermis at 1mm² is 150, on the lower

The leaf of Datura

epidermis, respectively, 225.

Conclusions

- 1. The root of the Datura stramonium is of secondary structure
- The stem is of non-tufted type of structure. The primary bark is differentiated into 3 tissues and has a lamellar collenchyma. There is a libriform in the xylem of the central axial cylinder.
- The leave is amphistomatic. The stomatal apparatus is of anomocytic type.