

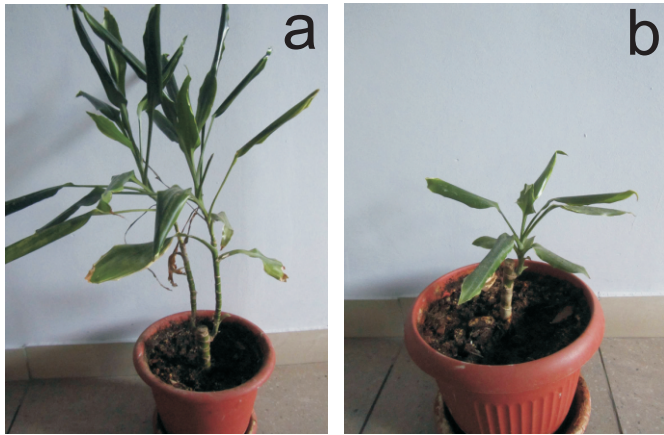
Optical parameters of plants grown under artificial lighting

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The paper presents the results of experimental studies on the study of the optical parameters of plants grown under artificial conditions. Fluorescence analysis was used as the main method



The objects of research were indoor plants

- *Dracaena* (lat. *Dracāena*).

All plants were divided into 2 groups:

Group 1 - plants grown in natural (sunlight) lighting;

Group 2 - plants grown under artificial lighting conditions (LED lamp).

All studies were carried out for 1 year.

Figure 1– Objects of research after 1 year of cultivation in different conditions:

a) 1 group of plants; b) 2 group of plants

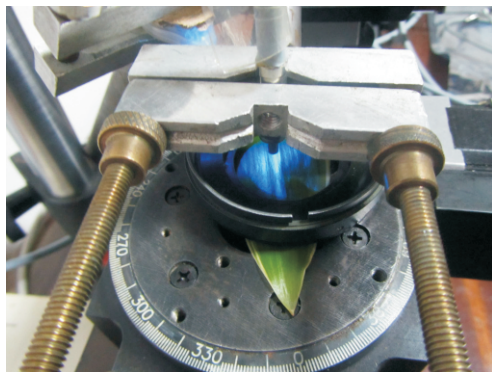


Figure 2 - Experimental stand, realizing fluorescence

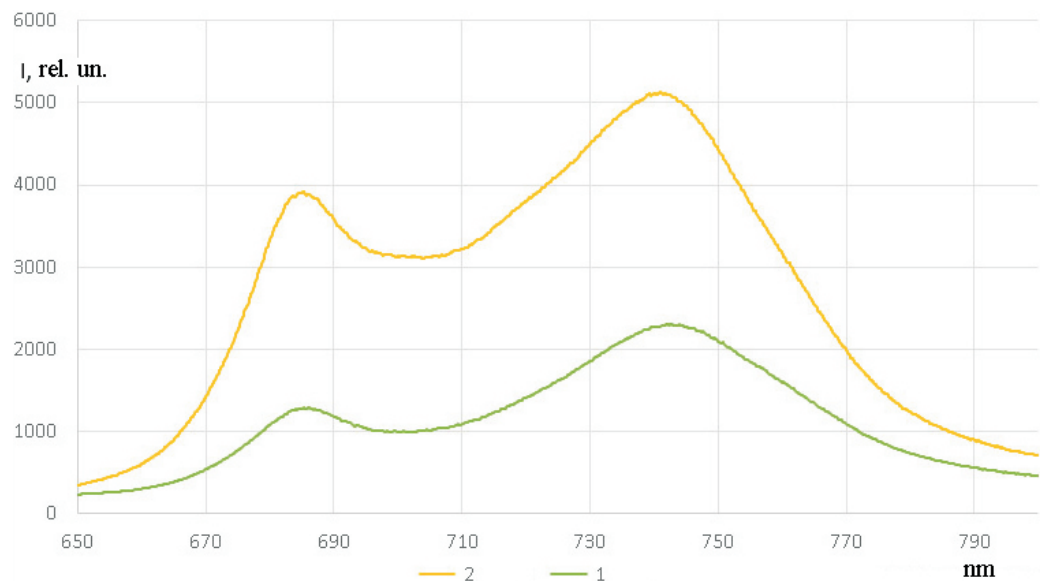


Figure 3 - Fluorescence of the studied groups of plants

Conclusions

As a result of the experiments, it was found that the largest maxima of the fluorescence amplitude are observed in plants grown under artificial lighting, which is apparently due to the high activity of chloroplasts under these conditions compared to the group of samples grown under natural light.