SOME BIOLOGICAL ASPECTS IN *VICIA FABA* L.

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Abstract

*Vicia faba* L. is an annual plant useful both in man's and animal's nutrition. Horsebean seeds are rich in protein thus being an excellent source of lysine. One major drawback with these is the presence of vicine, co-vicines and tannins in the seed cover.

Researches were carried out at the University of Agricultural Sciences and Veterinary Medicine Chuj-Napoca and focused upon certain cytogenetical aspects; also, on the biology of flowering and on vegetation period.

Keywords: *Vicia faba*, biological aspects

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Received:

*Vicia faba* L. is an annual-legume species, originating in the Mediterranean area, known and grown in ancient times.

The botanical classification of horsebean still raises problems as the bulk of botanists still agree with the classification done by Muratova (1931, cf. CUBERO, 1984) who divided the species into two subspecies, i.e., *ssp. pauca* and *ssp. eu-faba*.

**Species**  
_Vicia faba_

**Subspecies**  
*pauca*  
*eu-faba*

**Variety**  
*minor*  
*equina*  
*major*

**Subvariety**  
*tennis rigidus*  
*rugosa reticulata*  
*clavata*  
*oblancea*

The variety *Vicia faba* major, also known as "edible horsebean", is cultivated mainly in the Mediterranean area, South America and South-East Asia. The varieties *Vicia faba* equina and *Vicia faba* minor are comprised in animal nutrition.

Differences among botanical subspecies, varieties and subvarieties are based on the shape of pods, as well as on size and shape of the seeds:

- *Vicia faba* minor displays egg-shaped, regular, smooth seeds and short pods of two to three ovules and their destiny is fowl feed;
REZUMAT

ASPECTE PRIVIND BIOLOGIA SPECIEI Vicia faba L.

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Vicia faba L. este o plantă anuală, utilizată atât în alimentația omului cât și în hrana animalelor.

Semintele de bob sunt bogate în proteine, fiind o excelentă surse de Erina. Un inconvenient major al acestei specii este prezența varietăților care sunt periculoase pentru animalele de companie.

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