

POSTER ABSTRACT (2002)

Biogeographical characterization of Trichodoridae in the Iberian Peninsula

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ABSTRACT

The existence of two faunistic groups has been found on analysis of the distribution patterns of the 18 species from the family Trichodoridae that have been found in representative crops and environments of the Iberian Peninsula. The first one represented by the autochthonous species, *Paratrichodorus hispanus*, *Trichodorus azorensis*, *T. beirensis*, *T. giennensis* and *T. lusitanicus*, is present in uncultivated and cultivated areas; *T. azorensis*, *T. beirensis* and *T. giennensis* have been found very localised, while *P. hispanus* is widespread in Spain and Northern Portugal and *T. lusitanicus* is common mainly in southern but also found in central Portugal. The second one is defined by the plant parasitic and virus vector species, *P. minor*, *P. pachydermus*, *P. teres*, *T. primitivus*, *T. sparsus* and *T. viruliferus*, in which *P. anemones* and *T. similis* could also be included, in spite of their very localised presence. *Paratrichodorus anemones*, *P. pachydermus*, *T. similis* and *T. viruliferus* could be regarded as characteristic species from temperate environments, while *P. minor*, the most widespread species in subtropical crops, has also been found in the Canary and Madeira Islands. On the other hand, *P. teres*, *T. giennensis*, *T. similis*, *T. sparsus* and *T. viruliferus* have only been found in Spain, while *P. acutus*, *P. allius*, *P. nanus*, *P. porosus*, *T. azorensis* and *T. orientalis* appeared very localised only in Portugal, *P. acutus*, *P. porosus* and *T. azorensis* appearing only in the Azores and Madeira Archipelagos. Climatic, vegetation and soil type influence are discussed.

Fourth International Congress of Nematology, 8-13 June 2002
Tenbel, La Galletas, Arona, Tenerife, Canary Islands, Spain

(Available online: www.brill.nl)

Nematology International Journal of Fundamental and Applied Nematological Research, vol. 4
(2): 268-269.