Title:  
3006- Actinidia species under microscope

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Abstract body text:  
Kiwi is one of the most recently developed fruit crop and represents an increasing interest among researchers, farmers and consumers. In less than one century few species from Actinidia genus conquered most of globe on different cultivation favorable areas. Actinidia sp. breeding and cultivation techniques besides the fruit quality and postharvest technologies are important research fields all over. Intraspecific and interspecific is used frequently in the breeding process and the morphological characterization of the hybrid descendants is an important task. The aim of this paper is to present some original observations made under stereo microscope regarding the morphology of some kiwifruit species and hybrid genotypes, cultivated in Romania. The morphological characterizations of buds, leaves, flowers, pollen, fruits, seeds, bark, green shoots and one-year old wooden shoots was made for different species of Actinidia genus (Actinidia deliciosa, A. chinensis and A. arguta), in order to define the existing microscopic differences between them. Seeds, young roots and young leaves taken from A. chinensis, A. arguta, A. macroperma and A. eriantha were placed also under a stereo microscope. The results showed how different morphological characters are influenced and defined by different species. Most of the kiwifruit interspecific hybrid genotypes A. deliciosa x A. chinensis and A. chinensis x A. arguta are similar with the original parental species. Further observations regarding morphological characters of different Actinidia species are needed to better understand the differences between the anatomy of these species and to define simple determination/identification keys for different analyzed organs or plants parts.