



## Plant communities of the *Potentilletalia caulescentis* Br.-Bl. 1926 ( Syn. *Asplenietalia rutae-murariae* Oberd. et al. 1967) order in the Căpățâanii Mountains

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In the Căpățâanii Mountains the relief is dominated by rocks, which determined a saxicole vegetation, well developed in this region. Geologically, the mountainous region is made up of metamorphic, crystalline rocks, the Lotru series is framed in the unity of the Getic platform. The Lotru Crystalline is made up of the following types of rocks: mica-schists, crystalline schists, gneiss, mica and also amphibolites. Besides, there are jurassic limestones which are present in the following regions: Cheile Bistriței, Costeștilor, Oltețului, Buila-Vânturarița Massif and in the upper Luncavăț basin (Sec Spring-Muchia Cășăriei-Pietrele Găuriciului Spring). According to the research carried out between 1997-2007, in the Căpățâanii Mountains, there were identified 3 vegetale associations belonging to *POTENTILLETALIA CAULESCENTIS* Br.-Bl. 1926 (Syn. *ASPLENIETALIA RUTAE-MURARIAE* Oberd. et. al. 1967) order: *Asplenietum trichomanorutae murariae* Tx. 1937 (Syn. *Asplenietum rutae-murariae* Schiwickerath 1944), *Asplenio viridae-Cystopteridetum fragilis* Oberd. (1936) 1949 (Syn. *Cystopteridetum fragilis* Oberd. 1938), *Valeriano montanae-Corthusetum matthioli* Boșcaiu et Täuber 1978. For each vegetal association the corology, ecology, aspect and floristic composition as well as their importance are taken into consideration.