Phytochemistry and molecular systematics of Triaenophora rupestris and Oreosolen Wattii (Scrophulariaceae) - DTU Orbit (22/12/2018)

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The relationships between the genera Triaenophora, Oreosolen and Rehmannia were investigated. All three genera were previously included in tribe Veroniceae which was part of Scrophulariaceae but which is now included in Plantaginaceae. With regard to the content of iridoid glucosides, Triaenophora rupestris and the much-investigated Rehmannia were almost identical in containing catalpol, ajugol and 6-feruloylajugol. Oreosolen wattii was rather different in having compounds typical for the tribe Scrophularieae (Scrophulariaceae), namely aucubin, harpagide, harpagoside as well as two diesters of rhamnopyranosylcatalpol, one of which, here named oreosolenoside, had not previously been described in the literature. These results are consistent with recent analyses based on DNA sequencing and a phylogenetic tree illustrating the taxonomic relationships is presented.

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