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Differentiation of *Hieracium cymosum* L. in Central Europe

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Hieracium cymosum L. occurs throughout Europe. Its area of distribution reaches from Massif Central to the Ural Mts., northwards to Scandinavia. Three subspecies are usually recognised, i.e., subsp. *cymosum*, subsp. *sabinum* and subsp. *cymigerum*. The main distinguishing character is the density of glandular and simple eglandular hairs in the inflorescences as well as inflorescence architecture.

In the course of the present study, chromosome numbers (ploidy levels), mode of reproduction, inter- and intra-population variation (by use of isozymes) and geographical distribution in the Czech Republic and Slovakia are investigated. All studied populations (19) from the Czech Republic were proved to be diploid ($2n=18$, previously reported numbers for *H. cymosum* are $2n=18$, 27, 36, 54 and 63) and sexual (allogamous). Genetic variation was studied in 7 populations, four enzyme systems were used (AAT, SKD, LAP, PGM). Intra-population variation was detected by AAT, inter-population variation was detected by LAP. No variation was observed in SKD and PGM-1 patterns.

In the Czech Republic, *H. cymosum* occurs predominately in river valleys of the warmest regions. It is nearly absent from areas with deep soils in Moravia.