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Abstract. Based on molecular phylogenetic analyses and morphological studies, three new cryptic species of *Microbotryum*, *M. silenes-dioicae* on *Silene dioica*, *M. shykoffianum* on *Dianthus sylvestris*, and *M. carthusianorum* on *Dianthus carthusianorum*, are described and illustrated. For *Ustilago superba* on *Dianthus superbus*, a new combination in *Microbotryum*, *M. superbum*, is proposed.

Key words: *Caryophyllaceae*, *Dianthus*, *Microbotryum*, *Silene*, smut fungi, taxonomy