

## ABSTRACT

Salacova K.: Biological activity of plant metabolites. XII. Alkaloids of genus *Corydalis* DC. (Fumariaceae) and their biological activities. Diploma thesis, Charles University in Prague, Faculty of Pharmacy in Hradec Králové, Department of Pharmaceutical Botany and Ecology, Hradec Králové 2009, 83 p.

The literature search focused on isoquinoline alkaloids of the genus *Corydalis* was carried out. The summary offers information about the chemical structure of alkaloids and the species of *Corydalis* (or morphological parts of the mother plant) from which the alkaloids were isolated.

The biological activity of alkaloids and extracts from plants of the genus *Corydalis* was also described. Some species of the genus *Corydalis* present antifungal effects (*C. incisa*, *C. longipes*, *C. chaerophylla*), cytotoxic effects (*C. incisa*), hepatoprotective effects (*C. saxicola*), antithrombic effects (*C. koidzumiana*, *C. ambigua*), sedative, hypnotic and spasmolytic effects (*C. pseudoadunca*), anti-inflammatory and inhibitory effect on allergic reactions (*C. turtschaninovii* f. *yanhusuo*), inhibitory effect on acetylcholinesterase (*C. bulbosa*, *C. turtschaninovii* f. *yanhusuo*, *C. cava*, *C. speciosa*).

Keywords: genus *Corydalis*, isoquinoline alkaloids, biological activity, acetylcholinesterase