

## **Abstract:**

The presented master thesis is focused on an integration of plant alkaloids' curriculum into education process at eight-year grammar schools or their equivalent at primary and secondary schools. The aims of the thesis are to provide a basic data about plant alkaloids, to specify an integration of the plant alkaloids into the curricular documents and to select specific and suitable methods for teaching of the alkaloid topic at schools. These teaching methods were practically verified at the Karel Čapek's Grammar School at Dobříš by using author's proposals of the school lesson, the project teaching and laboratory exercises. In the terms of benefits for students, it has been verified that the teaching of plant alkaloids using the teaching project and the laboratory exercises, can be performed more efficiently than those during an "ordinary" school lesson.

Key words:

plant alkaloids, teaching methods, teaching lesson, project method, laboratory exercise, biology, chemistry