

ABSTRACT

Hradecká M.: Natural compounds applicable for the treatment of metabolic syndrome,
Diploma thesis 2018/2019, Charles University, Faculty of Pharmacy in Hradec Králové,
Department of Pharmaceutical Botany, pp. 60.

Occurrence of metabolic syndrome is increasing worldwide in children and adults. The use of natural compounds is one of possibilities in the prevention and treatment of metabolic syndrome. These compounds may act complexly or affect individual risk factors associated with metabolic syndrome. Selected plants with these effects are incorporated into my diploma thesis (for example *Allium sativum*, *Crataegus laevigata*, *Hibiscus sabdariffa*, *Persea americana*, *Rosmarinus officinalis*, *Silybum marianum* and *Vaccinium myrtillus*). The alga *Undaria pinnatifida* and fungus *Pleurotus sajor-caju* are also mentioned. It is necessary to carry out other clinical studies, where the positive effect of mentioned constituents will be confirmed, which could be added to the list of phytopharmaceuticals used to prevent, slow down or treat the metabolic syndrome in the future.

Keywords: natural compounds, metabolic syndrome