

## **ABSTRACT**

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The aim of this diploma thesis is to create the summary of plants and natural compounds which can cause contact, inhalant or food allergies. Their incidence is documented by case reports, the most of them came from Europe, Asia and America where are these problems solved and science in these regions pays attention to allergies in general. *Asteraceae* family is the most often cause of allergy (10,8 %) thanks to sesquiterpene lactones, on the second place there is *Lamiaceae* family (7,2 %) with the content of fragrances and oils. The next position is engaged by families *Anacardiaceae* and *Fabaceae* (6 %). In the comparison with previous studies *Asteraceae* allergy is on the decline, but the number of subject positive to cosmetics and fragrances is increasing. Less amount of articles discuss about propolis and latex sensitivity. Source of allergies can be found in plants and animals as well. Particular case reports describe allergy and its diagnosis, identification of main allergens, therapy of resulting problems and eventually recommend next arrangements including prevention. The tables with complemented information present new pieces of knowledge incorporated to scientific periodics and journals from 2004 till 2009. The most of cited articles was published in Contact Dermatitis.