

HEALTH 4 U



# Science Workshops Allergy & Immunology



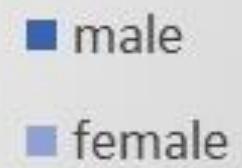
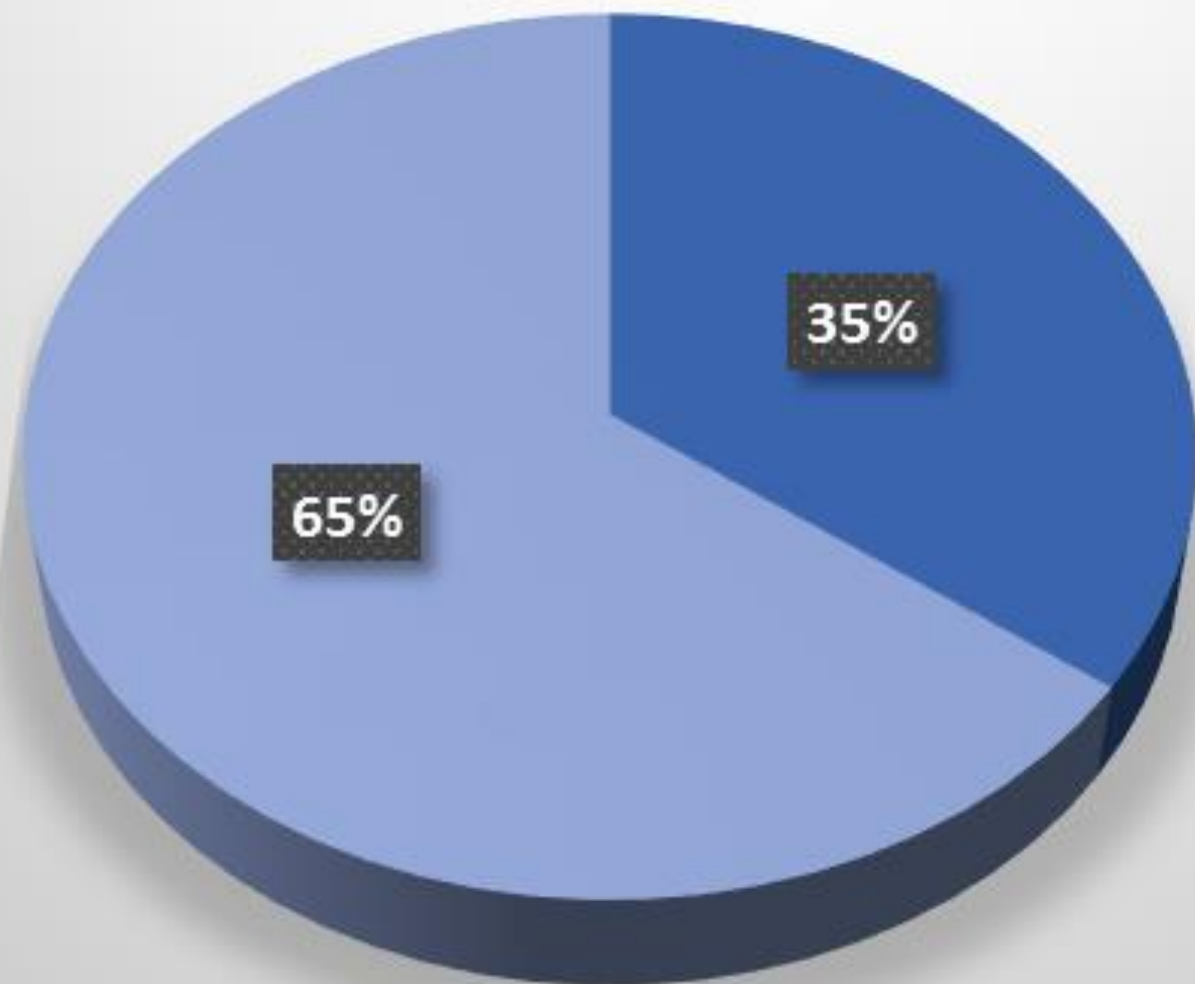
# ALLERGY

Our immune system protects us from diseases by attacking foreign invaders which are harmful for the body.

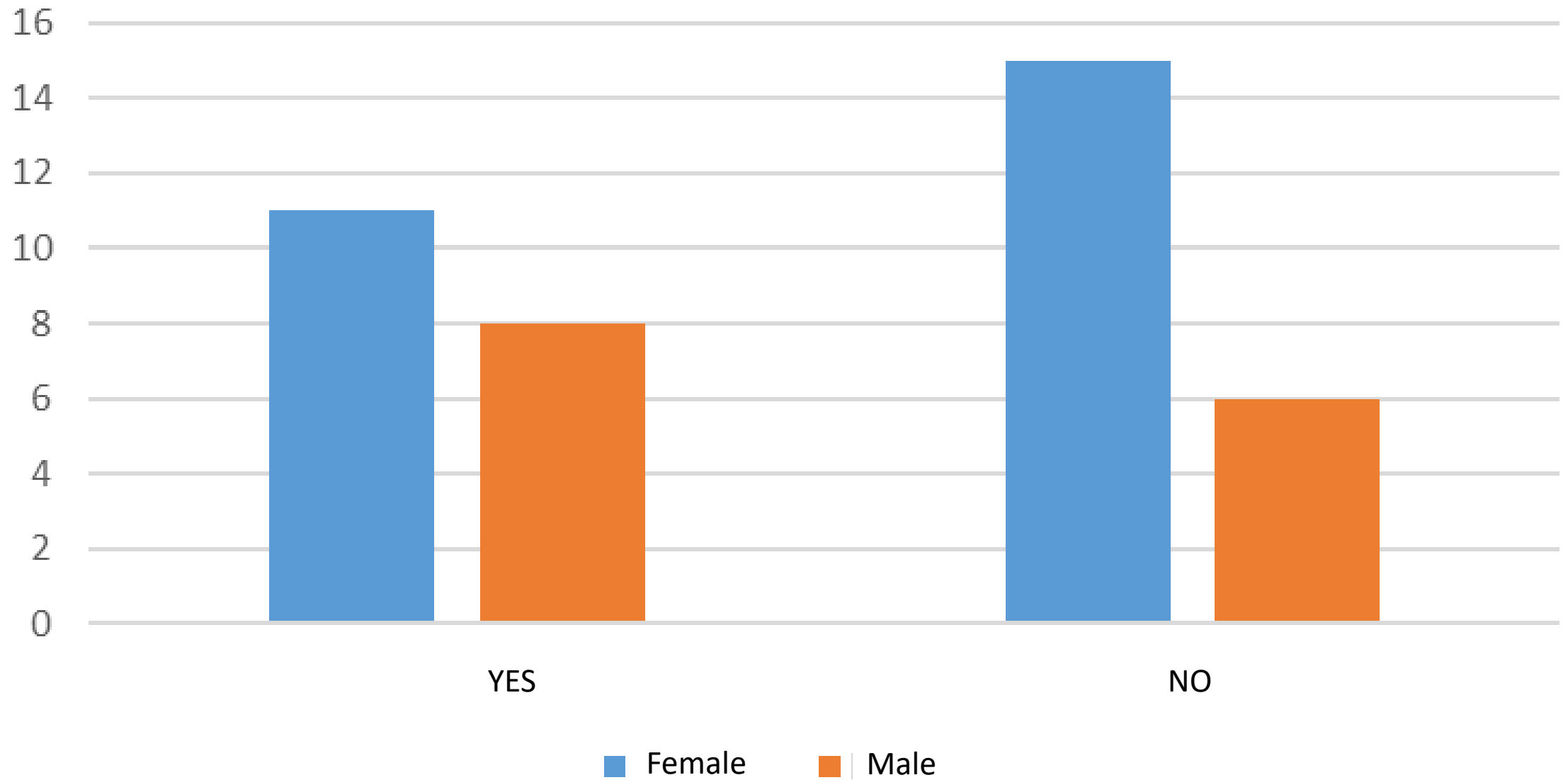
An allergic reaction occurs when normally harmful substances provoke immune responses, which may cause inflammation, excess mucus secretion and other problems.

The results of the questionnaire on allergies, in which 40 students (age 16 -19) from 3 classes from HLW St. Veit took part in 2019, is shown in the following charts.

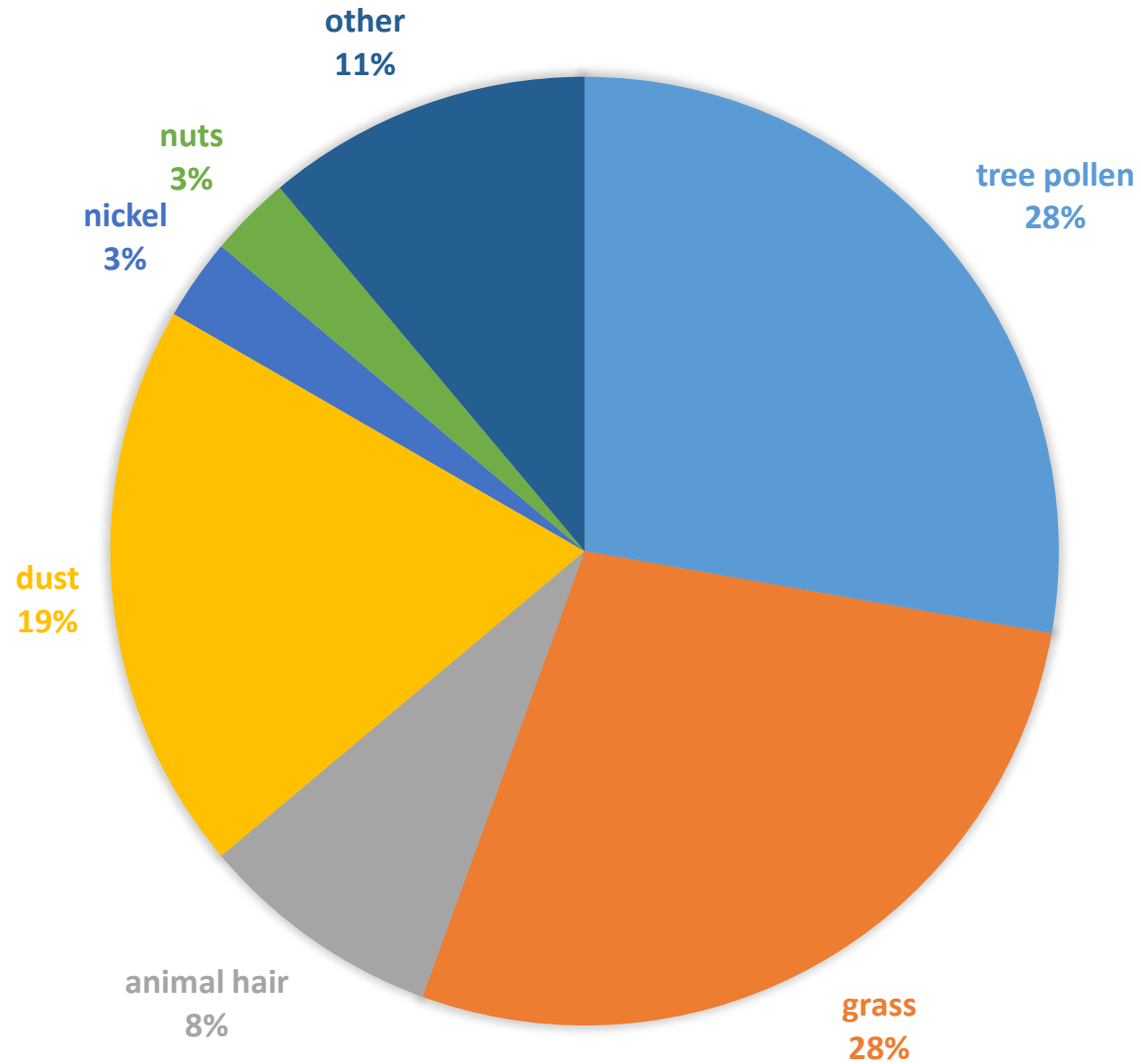
# 1. Gender



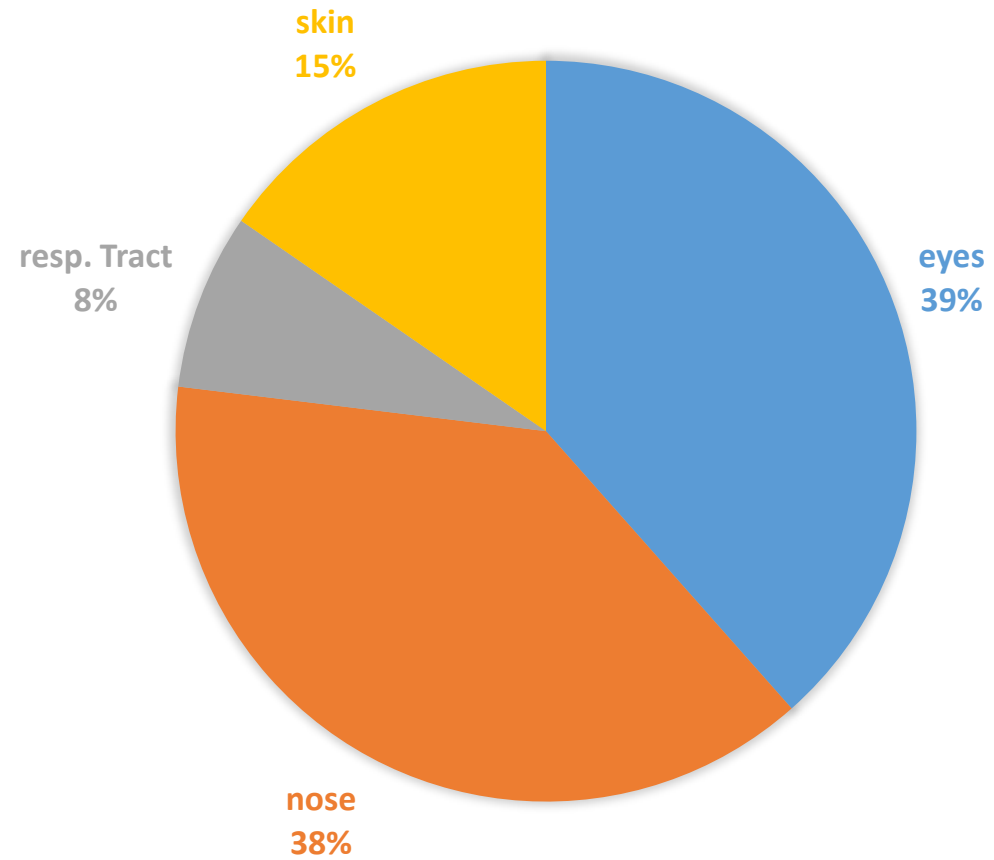
## 2. Do you suffer from an allergy ?



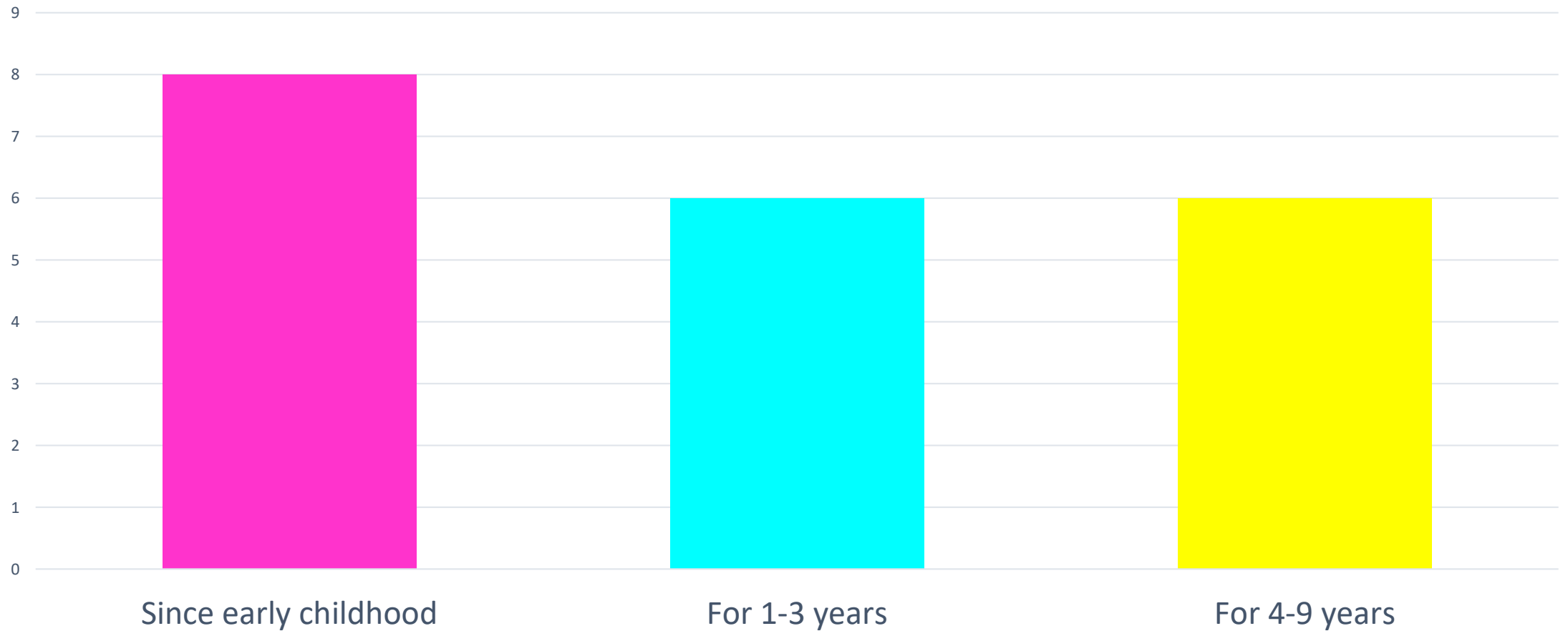
### 3. If yes, which one(s)?



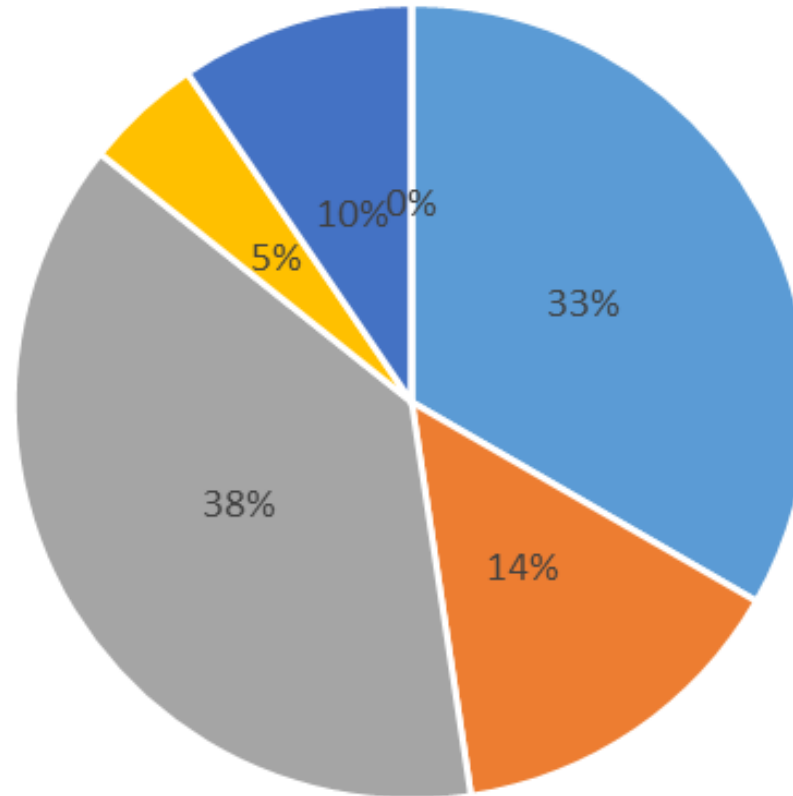
#### 4. Which part(s) of your body is/are affected by the allergy?



# 5. Since when have you been suffering from the allergy?



## 6. What do you do or take to manage your allergy?



■ nothing

■ avoiding the allergen

■ prescribed medication(s)

■ desensitisation

■ homeopathic medicine

■ other

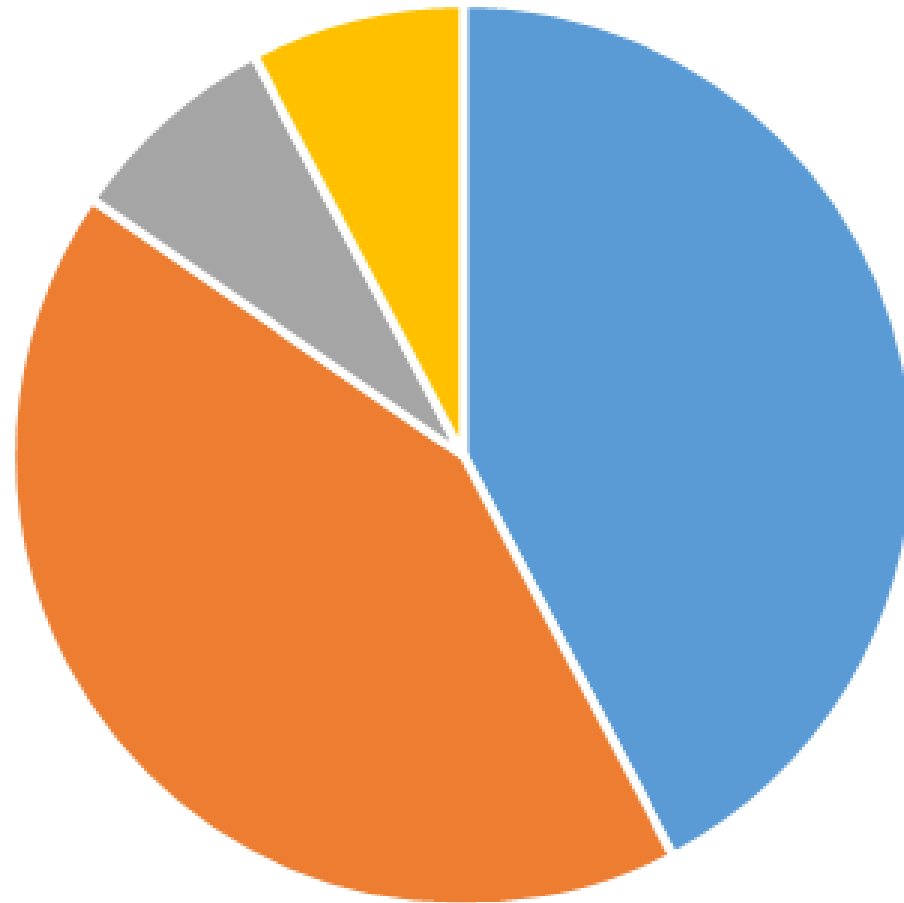


7. Do family members suffer from allergy?



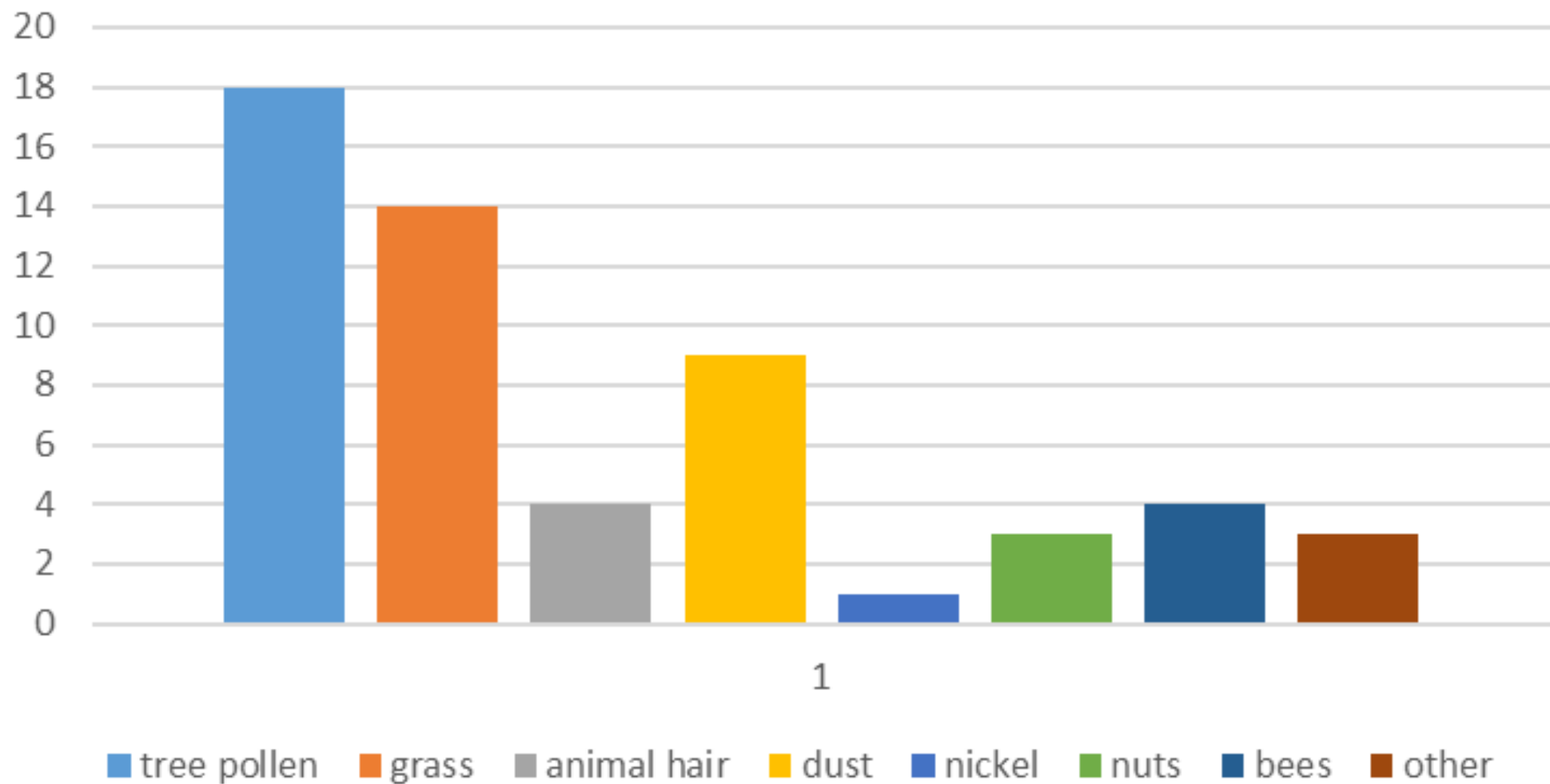
■ yes ■ no

8. If yes, how many family members are affected?



■ 1 ■ 2 ■ 3 ■ More

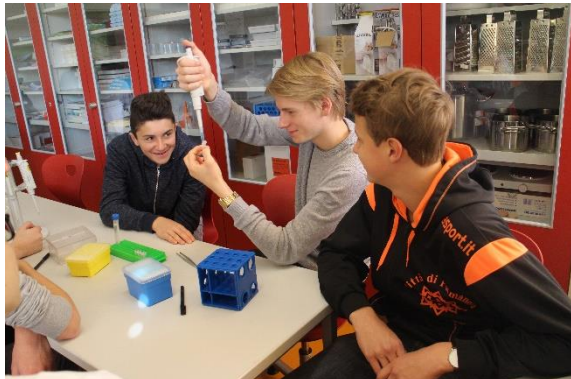
## 9. Which allergies occur in your family?



# IMMUNOLOGY

In spring 2019 the classes 2AHW, 3AHW and 3DHW attended the workshop „immunology“ with Mag. Vanessa Dürbauer and Mag. Elisabeth Hainzl, carried out under the direction of Mag. Reinhard Nestelbacher.

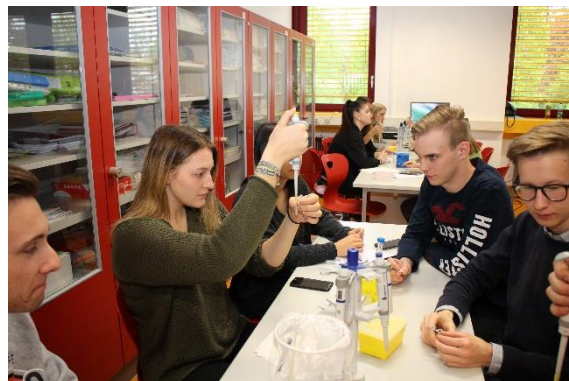
A laboratory with work places for the students was set up.



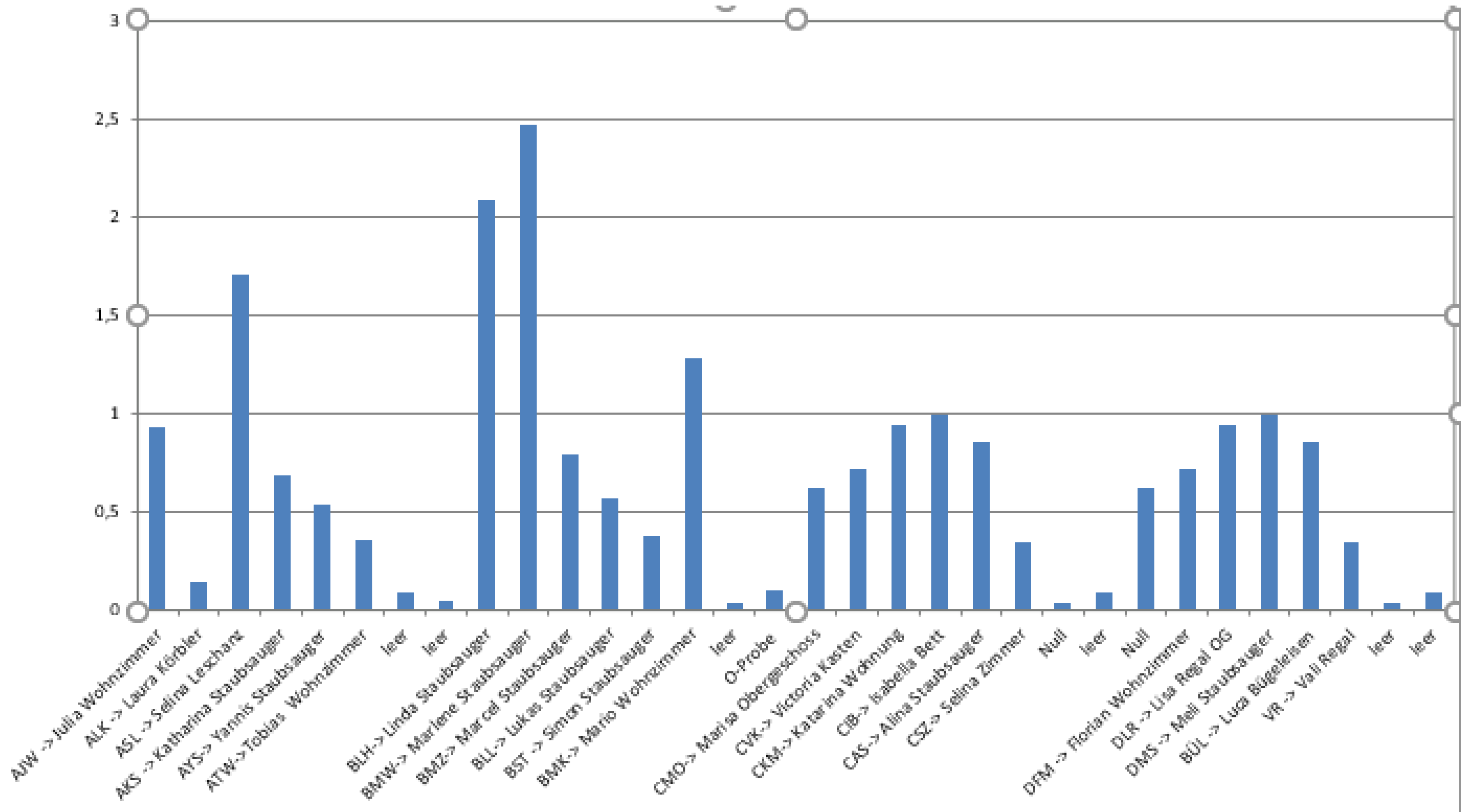
# IMMUNOLOGY

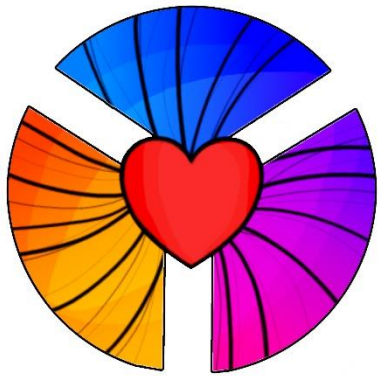
In the workshop the students examined the allergic potential in dust from samples, which they had collected in their households. They isolated and concentrated the excrements of the dust mites.

An important skill the students had to learn was how to precisely handle the microlitre-pipettes. Finally, they measured the amount of the mites' excrement – proteins using the ELISA-test with two antibodies.



The bar graph shows results of dust samples.





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