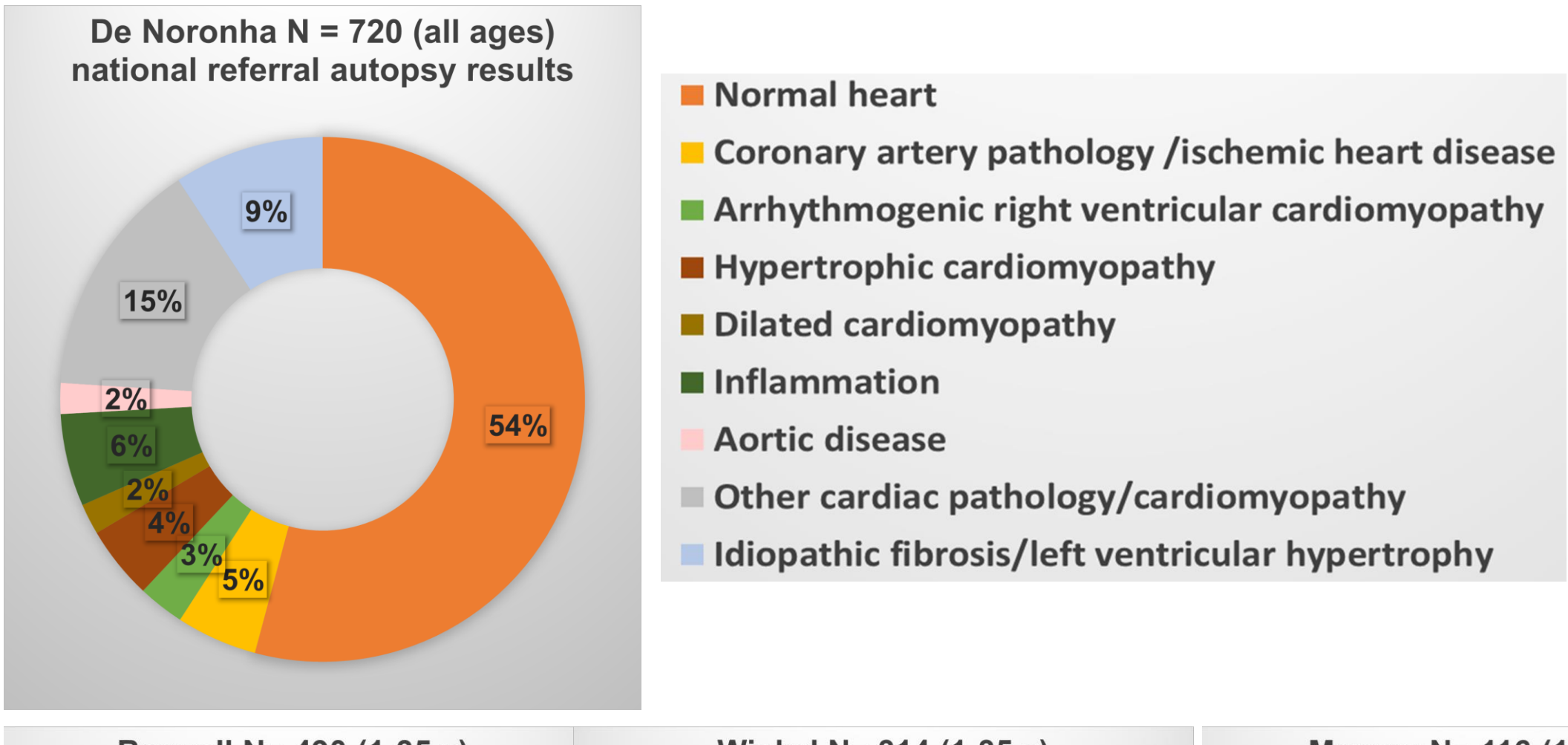
Figure 1. Aetiology of unexpected Sudden Cardiac Death



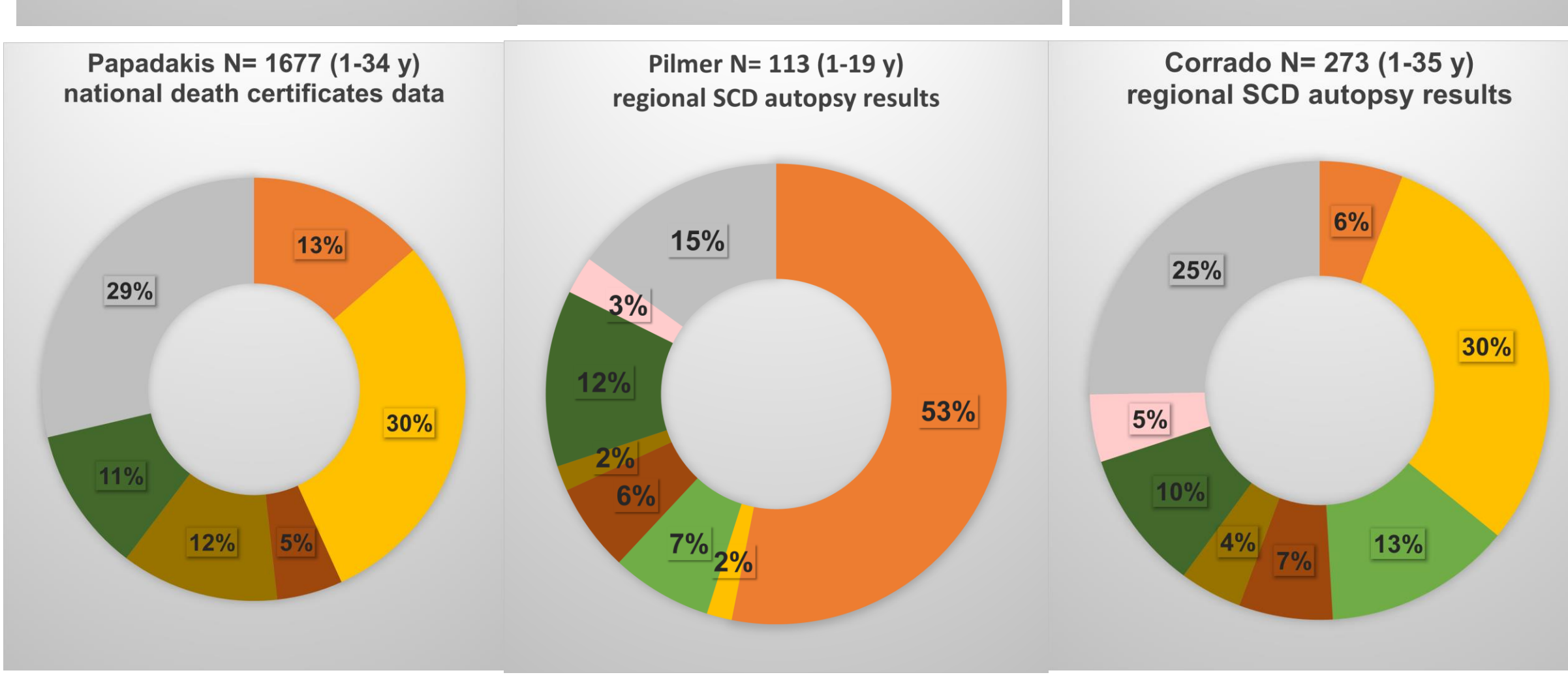


Figure 2. Aetiology of unexpected Sudden Cardiac Arrest

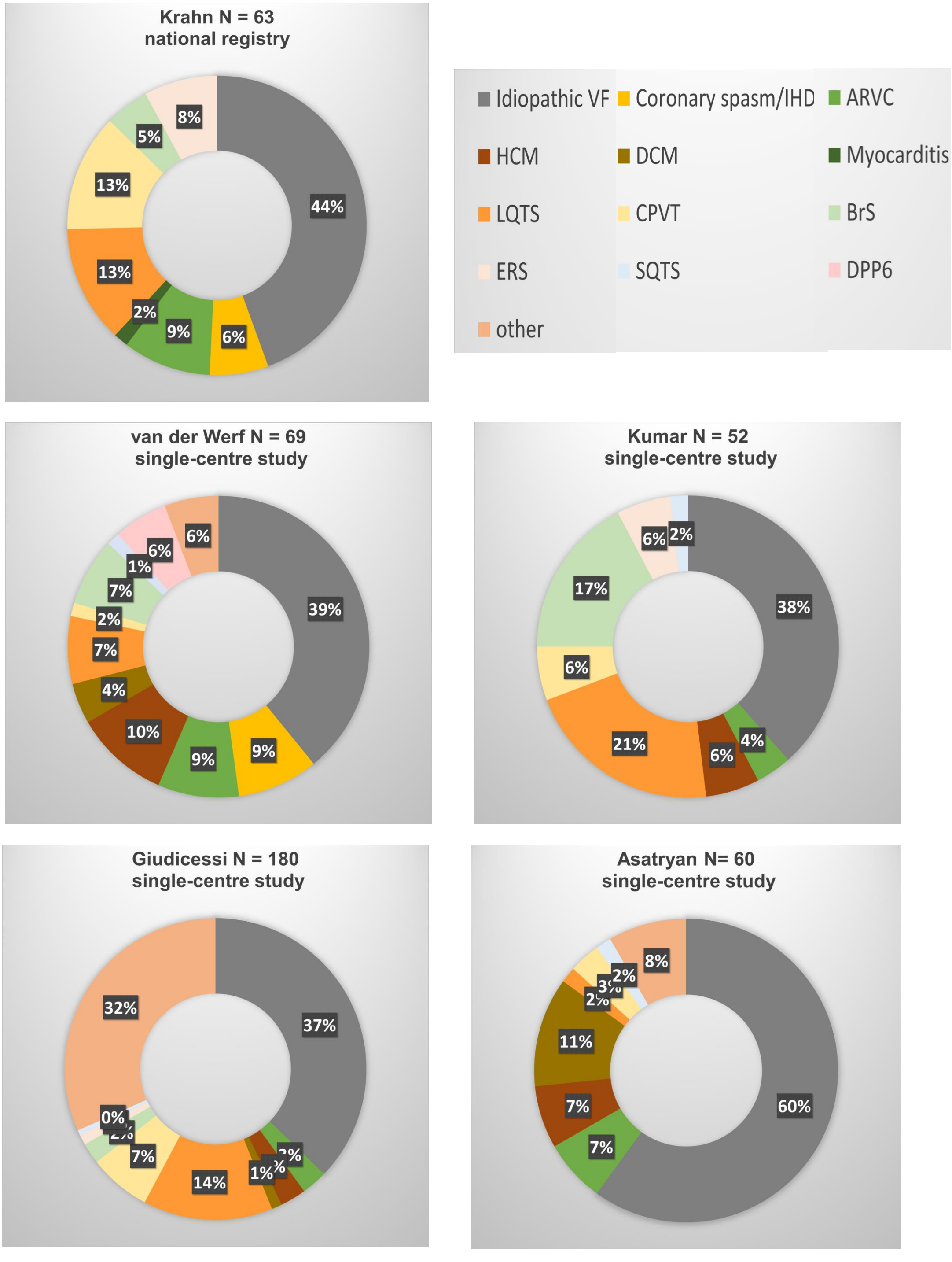
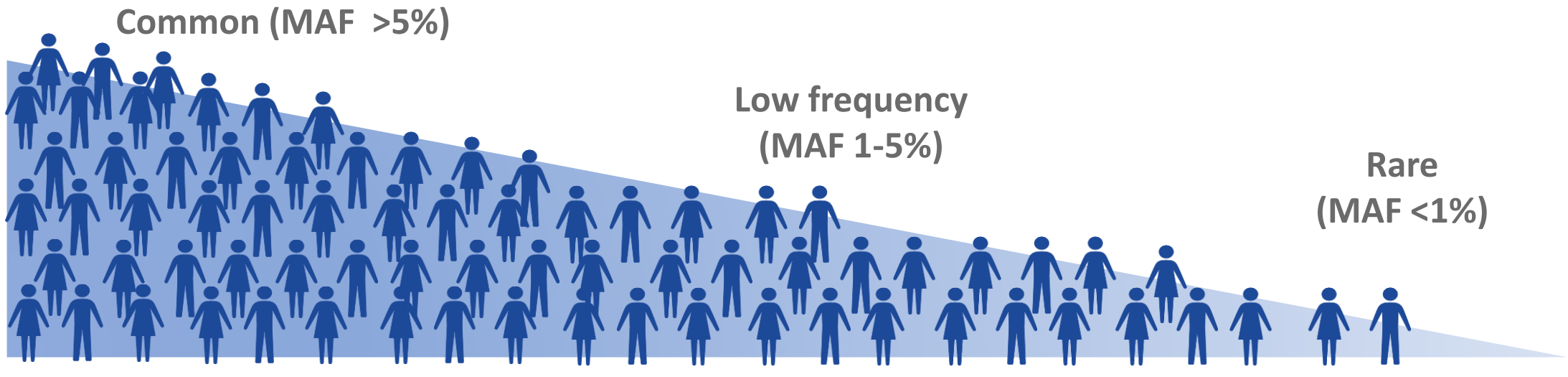
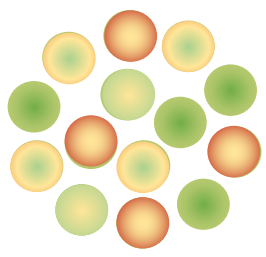


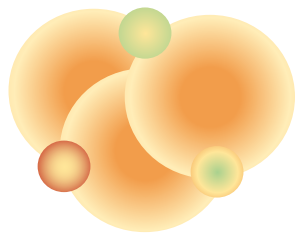
Figure 3 . Genetic variants frequency, effect size and classification

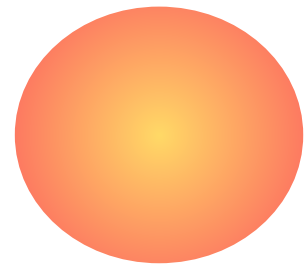
a) **Variant frequency**



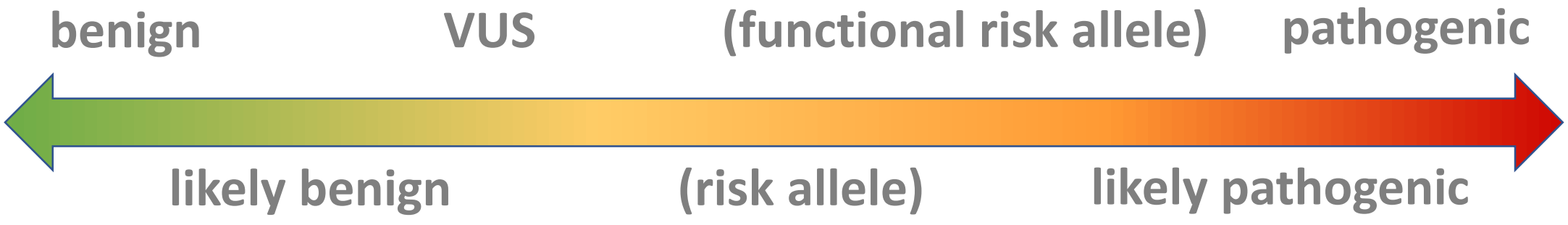
b) **Size of variant effect**


polygenic disease


oligogenic disease


monogenic disease

c) **Variant classification**



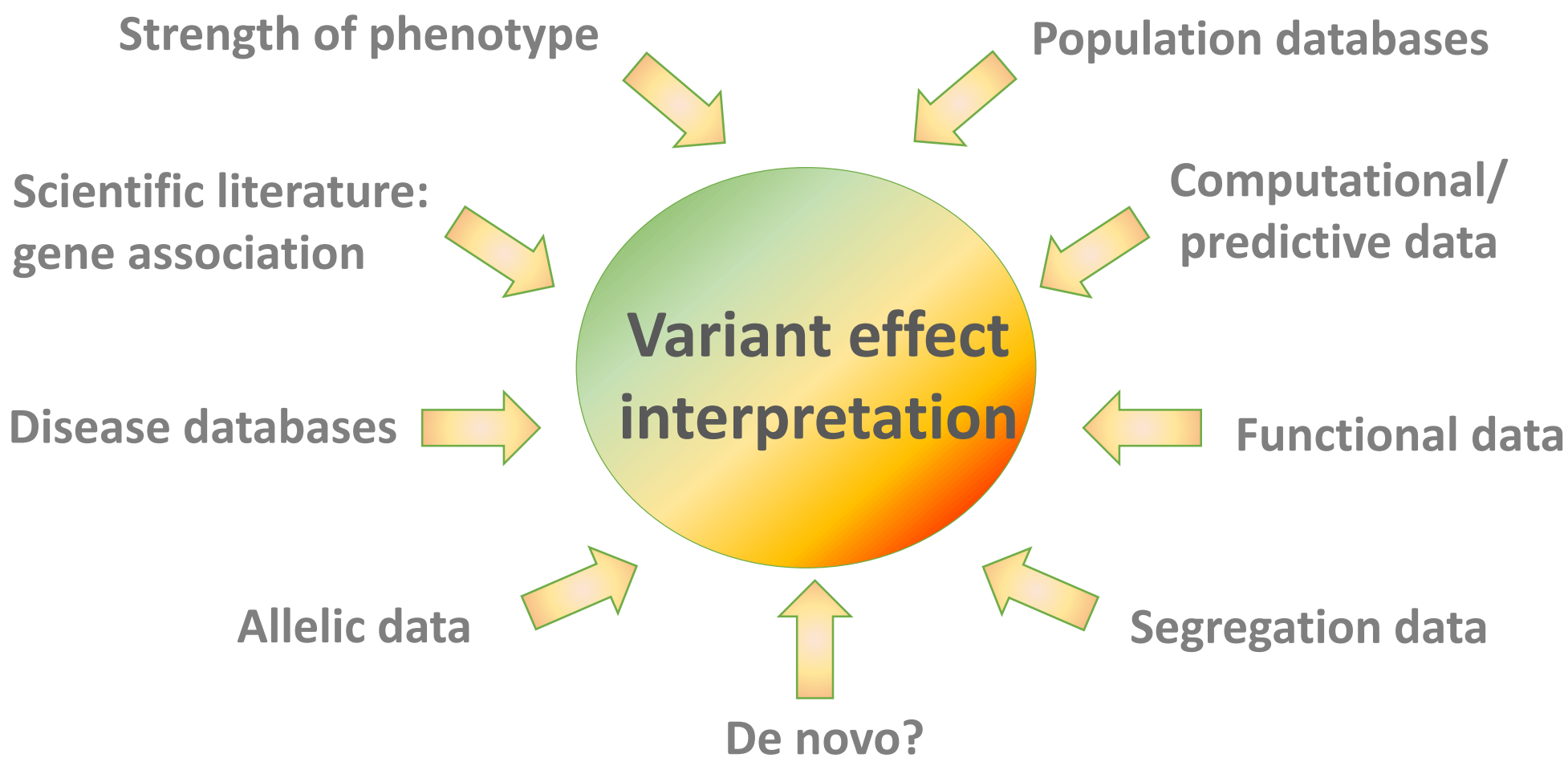
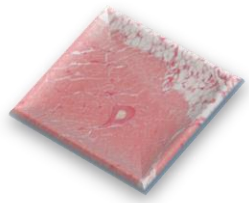


Figure 4 . Genetic approaches to rare and common diseases

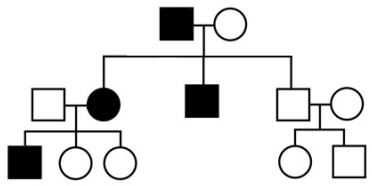
Genetic approaches to rare and common diseases

Rare or private variants – familial diseases

Molecular autopsy



Linkage analysis

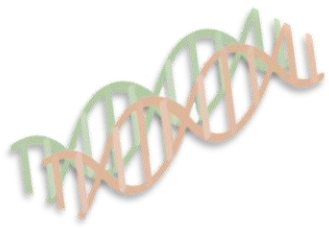


Variant classification (figure 3)

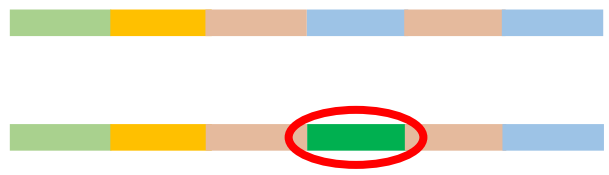
Genomic datasets

In vitro studies

Animal studies



Whole exome- or genome- sequencing

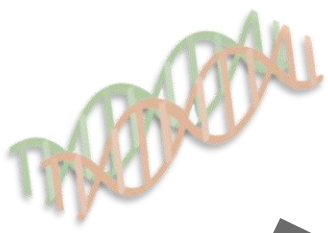


Variant calling

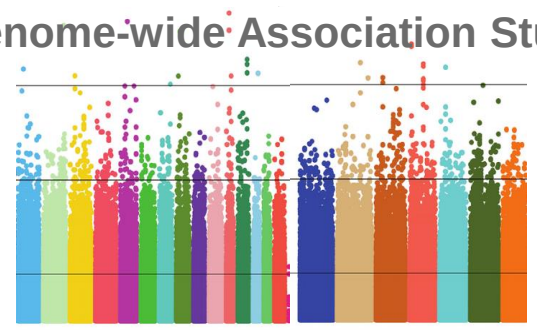
Common variants – population diseases

Cases

Controls



Genome-wide Association Studies



Risk prediction in general population

Polygenic risk scores