

## **Abstract**

The necessity of distinguishing monozygotic twins from a genetic point of view is important not only for determining paternity, when it is decided which of two identical twins is the father, but also, for example, for criminal cases, where it is necessary to identify the perpetrator who is one of the monozygotic twins. In addition to analyzing and evaluating molecular biological methods, the work also deals with monozygotic twins themselves, their emergence and the causes of their emergence. The topic affects both forensic genetics and medical fields.