

Abstract:

In last years, forensic genetics focused on a research of epigenetic factors and mRNA. It turned out that their analysis provides valuable information that can be obtained from a small amount of a biological trace and which included e.g. estimation of circumstances of death, age estimation, discrimination within monozygotic twins, identification of tissues and body fluids, sample authentication, determination of paternal allele, etc. In this thesis, it is discussed methods of epigenetic factors and mRNA analysis and their potential application in future forensic practice.