

Genomics for Medicine: today and tomorrow.

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Abstract

Over the past 10-15 years, there has been a breakthrough in the development of genomics. The development of technology has led to a significant reduction in the cost of genomic research and to the accumulation of data on the genomes of millions of people. This information made it possible to effectively identify the relationships between genome regions and traits (phenotype), including those significant for medicine. Today, genomic research is an important foundation for the development of personalized medicine and makes it possible to predict the development of various diseases, as well as the selection of effective therapy (pharmacogenetics).