

Abstract

Psychological diseases are very heterogeneous group of diseases, including a complicated and complex multifactorial etiology with a possibility of an important role of a genetic component. Some diseases got discovered their clear genetic origins, for instance Rett syndrom, where the origins are caused by a mutation in gen *MECP2*. The origins of a majority of other psychological diseases are more complex - it is chiefly a combination of specific polymorphism of many gens with an impact of an external environment. Among this group we can range diaseases such as anxiety disorder, eating disorder, schizophrenia and bipolar disorder. Autism presents the polymorphism of few different gens, however other mentioned diseases presents mainly polymorphism of genes, connected into neurontransmission. This thesis deals with a selection of potential genetic causes of psychological diseases, illustrated by the specific examples.

Keywords: psychological diseases, Rett syndrom, autism, neurotransmitters, anxiety disorder, eating disorders, schizophrenia, bipolar disorder, mutation, polymorphism