P-697 - MOLECULAR GENETIC STUDIES IN PSYCHIATRIC DISORDERS

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The genetic determinism with such mental illnesses as schizophrenia and Alzheimer's disease has been insufficiently studied.

The aim of our study was to analyze the association of polymorphic variants of genes with clinical manifestations of mental illness.

Were examined 160 patients with schizophrenia and 50 patients with Alzheimer's disease.

In patients with schizophrenia was found association of polymorphic variants of the gene BDNF, serotonin transporter gene (5-HTTLPR), serotonin receptor gene (5-HTR2A), dopamine receptor gene (DRD2). In the presence of the allele of the gene BDNF, associated with schizophrenia, age at onset of schizophrenia was significantly lower. Was suspected link genotype MetMet gene BDNF with increased risk of tardive dyskinesia.

In patients with dementia Alzheimer's has been revealed association of polymorphic variants of genes of AroE4, TOMM, BIN1, CR1, A2M and CLU with disease development.

The results of molecular genetic analysis of mental illness will lead to better treatment these disorders and may be used in medical and genetic counseling.