

# Molecular genetics

**Molecular genetics** is a sub-field of **biology** that addresses how differences in the structures or expression of **DNA molecules** manifest as variation among **organisms**. Molecular genetics often applies an “investigative approach” to determine the structure and/or function of genes in an organism's genome using genetic screens.

The field of study is based on the merging of several sub-fields in biology: classical Mendelian inheritance, cellular biology, molecular biology, biochemistry, and biotechnology. Researchers search for mutations in a gene or induce mutations in a gene to link a gene sequence to a specific phenotype. Molecular genetics is a powerful methodology for linking mutations to genetic conditions that may aid the search for treatments/cures for various genetic diseases.

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## Molecular genetics in brain tumor

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