

Molecular profiling

The [comprehensive molecular profiling](#) of cancer has resulted in new insights into the biology and [classification](#) of numerous [tumor](#) types.

The classification of [tissue](#) or other specimens for diagnostic, prognostic, and predictive purposes based on multiple [gene expression](#), is a technology that holds major promise for optimizing the management of patients with cancer.

Molecular profiling refers to the study of specific patterns, or signature, of the following:

Protein ([Proteomics](#); Oncopeptidomics)

mRNA ([Gene Expression Profiling](#); Microarray (cDNA) Technology; RNA Profiling; OncoArray; Oncotype DX; MammaPrint)

DNA (Polymorphism; Metabolic Polymorphisms; Metabolic Polymorphisms and Cancer Susceptibility)

Epigenetic status (Epigenome).

see [Single-cell transcriptome profiling](#).

[Molecular profiling](#) of GBM has become crucial for improving diagnosis, predicting prognosis, and guiding personalized therapies. [Next-generation sequencing](#) (NGS) has emerged as a powerful tool to comprehensively analyze the genetic [landscape](#) of GBM, providing insights into its heterogeneity and potential therapeutic targets.

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