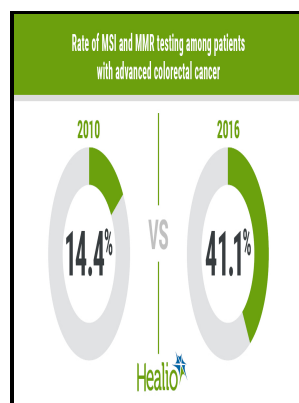


Molecular diagnostics of cancer

Springer-Verlag - Molecular Diagnostics: Current Roles in Cancer Diagnosis and Patient Management



Description: -

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Tumor Markers, Biological -- congresses.

Oncogenes -- congresses.

Neoplasms -- genetics -- congresses.

Neoplasms -- diagnosis -- congresses.

Cytogenetics -- methods -- congresses.

Polymerase chain reaction.

Tumor markers -- Diagnostic use.

Molecular probes -- Diagnostic use.

Cancer -- Genetic aspects.

Cancer -- Molecular diagnosis. Molecular diagnostics of cancer

-Molecular diagnostics of cancer

Notes: Includes bibliographical references and index.

This edition was published in 1993



Filesize: 14.59 MB

Tags: #Molecular #Diagnostics

Molecular Diagnostics in the Evaluation of Cancer: Modern Concepts and Overview

All these factors contribute to the identification and fine characterization of the genetic basis of inherited diseases which, in turn, is vital for the accurate provision of diagnosis. Yet, developing protein-based biomarkers for cancer treatment has been hampered, in part, by the technical challenges of working with proteins, which are more complex than nucleic acids DNA and RNA. While other board certifications have been set up to accommodate these groups, sponsored by the American Society for Microbiology, the American Association of Clinical Chemistry, the American Society of Histocompatibility and Immunogenetics, and so forth, none of these other boards are recognized by the ABMS.

Divide and Conquer: The Molecular Diagnosis of Cancer

What patients may choose to get the Oncotype DX[®] test? Molecular techniques have provided many basic tools that will allow early detection, specific diagnoses, and rapid treatment of cancers.

Molecular diagnostics

The higher the number, the more likely the cancer is to recur in the the three years following the surgery.

20 Molecular Diagnostics Companies to Watch

The final section reviews allelic heterogeneity and corresponding choice of analytical methodology. The tissue collection and handling requirements make the assay difficult for use in clinical practice. Which patients should consider Oncotype DX[®]: Women of any age who were recently diagnosed with Stage I or II lymph node negative, estrogen receptor positive ER+ breast cancer can consider testing in order to help determine whether chemotherapy would be of benefit to them.

Molecular Diagnostics in the Evaluation of Cancer: Modern Concepts and Overview

This image shows that there are many different gene mutations that may be associated with NSCLC, further complicating how best to treat a

specific patient.

Molecular Diagnostics

The increased demand for genetic and genomic information has led to the rapid expansion of molecular techniques within clinical laboratories. As technology improves, it is easier and less expensive to identify the exact changes that have occurred in any particular cancer patient. Whether the changes in microRNA expression are a cause or effect of the disease is not yet known for many microRNA species.

Divide and Conquer: The Molecular Diagnosis of Cancer

Many groups have begun researching the downstream targets of miR-21. In the studies done to prove the accuracy of the Oncotype DX® test, the chemotherapy drugs used were methotrexate and fluorouracil with or without cyclophosphamide. These have been successful not only because of their prognostic and predictive value but also because it has enabled simplified and early breast cancer detection, along with accurate and tailored treatment.

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