IntelligeneDx™ Integrated Genetics is a laboratory specializing in cancer molecular genetics.

We offer physicians and patients the most advanced techniques in analyzing hereditary cancers, as well as tumor analysis, which contribute to very detailed reports and actionable diagnoses. Our tests help medical teams create the most efficient and effective custom oncology treatment for their patients.

We offer our doctors and patients the most advanced techniques to analyze hereditary cancers, as well as analysis of the tumor tissue itself, which contributes to a detailed diagnosis and also assists medical teams in determining a more efficient oncological treatment.

What sets IntelligeneDx™ apart?

We offer comprehensive and detailed medical reports and pre and post genetic counseling for doctors. We also have a strong commitment to making sure our patients understand their tests by providing test result support and assistance.

We have integrated technical, scientific and logistical expertise to help suggest specialized treatments. Each result is custom-made and interpreted by an experienced geneticist in order to ensure quality, answer questions, and create an easily understandable report.

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In order to request it, check our webpage: www.intelligenedx.com

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Cancer Genomics

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Hereditary Cancer Panel

Li-Fraumeni syndrome

IntelligeneDx
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Li-Fraumeni syndrome

Li-Fraumeni syndrome (LFS) is a rare disease characterized by a hereditary predisposition to the development of an early onset tumors and by the presence of several types of neoplasms. Patients with this syndrome have approximately 50% risk of a malignancy presence before the age of 30, whereas in the general population this risk is around 1%.

There are several malignant tumors associated with this disease. The most common types are: sarcoma, leukemia, tumors of the central nervous system, adrenocortical and early onset breast cancer. In addition to these, other frequent types of cancers in families with this disease are: melanoma, germ cell tumors, gastric tumors and Wilms' tumor, and, in some individual cases of LFS, pancreatic, lung, larynx, prostate and lymphomas.

LSF is associated with the TP53 mutation, which is a tumor suppressor gene. Alterations in this gene are detected in about 80% of patients with classic LSF and in about 30% of patients with Li-Fraumeni - like syndrome, characterized by families that do not present a complete phenotype of the disease.

The genetic analysis for the TP53 is recommended by the National Comprehensive Cancer in accordance to the Chompret* criteria or in any patient with breast cancer who is younger than 30 years old, showing negative results for BRCA1 and BRCA2.

Besides the analysis of the TP53 gene, the CHEK2 gene is also analyzed, once some procedures have proven its relation to the Li-Fraumeni phenotype.

Suggested Panel:

For the diagnosis of the Li-Fraumeni syndrome, IntelligeneDx™ offers the Li–Fraumeni Hereditary Cancer Panel, in which we analyze the TP53 and CHEK2 genes.

Reference:

NCCN, http://www.nccn.org

* 2009 Version of the Chompret Criteria for Li Fraumeni Syndrome (JOURNAL OF CLINICAL ONCOLOGY - VOLUME 27 _ NUMBER 26 _ SEPTEMBER 10 2009)

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