

Clinical Outcome Predictors for Mantle Cell Lymphoma

Summary

The invention is a novel methodology for predicting a mantle cell lymphoma (MCL) cancer patient's survival prognosis. This information is important in helping determine the best course of treatment for the patient.

NIH Reference Number

E-131-2016

Product Type

- Diagnostics

Keywords

- Mantle cell lymphoma, B-cell Lymphomas, Prognostic tool, Gene expression profile

Collaboration Opportunity

This invention is available for licensing and co-development.

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Description of Technology

Mantle cell lymphoma (MCL) is a group of aggressive B-cell lymphomas displaying heterogeneous outcomes after treatment. Some patients have the slowly progressing disease that does not require immediate treatment, while others have a disease that rapidly progresses despite highly aggressive treatment. A number of prognostic tools have been described to determine whether patients have slow or rapidly progressing diseases, including the mantle cell lymphoma International Prognostic Index (MIPI) and biomarkers, such as KI-67.

Researchers have discovered a novel method of predicting a MCL patient's overall survival prognosis (poor, intermediate, or good) by measuring the gene expression profile of a specific subset of biomarkers from a biopsy and using a set of statistical algorithms to analyze the results and produce a "survival score". The survival score enables a physician to determine the best course of treatment, such as a less aggressive or more aggressive treatment protocol or an experimental treatment that would be the most

beneficial for an MCL patient.

Potential Commercial Applications

- Mantle cell lymphoma prognostic tool

Competitive Advantages

- Does not require fresh frozen samples, utilizes formalin-fixed paraffin-embedded (FFPE) samples
- In contrast to current KI-67 assay, the subject technology is reproducible

Inventor(s)

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Development Stage

- Clinical

Publications

Scott DW, et al. New Molecular Assay for the Proliferation Signature in Mantle Cell Lymphoma Applicable to Formalin-Fixed Paraffin-Embedded Biopsies. [PMID 28291392]

Patent Status

- **Foreign Filed:** Foreign Filed - Patent Application PCT/US2017/028628, Filed 20 Apr 2017

Related Technologies

- E-108-2004
- E-256-2008
- E-750-2013

Therapeutic Area

- Cancer/Neoplasm

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