

# AI Tool Predicts Colon Cancer Survivorship and Response to Treatment

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Harvard Medical School and National Cheng Kung University in Taiwan have designed an artificial intelligence (AI) algorithm to improve colorectal cancer prognosis and treatment options.

The new technique uses microscopic images of tumor samples to reliably predict colorectal tumor aggressiveness. It predicts survival with and without disease recurrence and the optimum treatment.

The new approach may help clinicians recommend more intense follow-ups, aggressive treatments, or clinical trials of newer drugs for individuals with poor prognosis. In areas

with limited access to advanced pathology and tumor genetic sequencing, the strategy may be useful.

This new AI tool goes beyond mimicking or optimizing human expertise and can see visual patterns on microscope images that the naked eye cannot.

The algorithm was trained with patients' ages, sexes, cancer stages, and results using records from almost 2,000 colorectal cancer patients. The tumor's genomic, epigenetic, protein, and metabolic profiles were inputted.

The model pathologist was then presented tumor samples and instructed to look for visual markers of tumor types, genetic mutations, epigenetic alterations, disease progression, and patient survival.

The researchers showed the model novel pictures of tumor samples from multiple patients to test its "real-world" performance. To evaluate its efficacy, they matched its results to real patients and other clinical data.

After diagnosis, survival time and cancer-free years were accurately predicted.

The technology also projected how a patient's tumor would respond to certain medications based on genetic variations that made the cancer more or less likely to form or spread. The technique outperformed pathologists and cutting-edge AI algorithms.

The researchers believe this approach could assist guide treatment decisions in cases when resources are short or genetic sequencing of tumor tissue is not possible.

It could help clinicians and patients navigate colorectal cancer, which kills 1 million people globally each year.

When it comes to combating colon cancer, early detection is key. It's also important that cancer detection is simple, accessible, and affordable.

Up until recently, a colonoscopy was the most accurate way to detect colon cancer. However, over one-third of eligible individuals refuse to undergo a colonoscopy, which is why non-invasive alternatives are needed.

**Mainz Biomed (NASDAQ:MYNZ)** is the company behind **ColoAlert**, a highly accurate and easy-to-use at-home screening test for colorectal cancer (CRC). This product is the first DNA-based screening test for colorectal cancer and is already approved in the European Union.

## **Revolutionary At-Home Cancer Screening Test Moves Toward FDA Approval**

**Mainz Biomed's** flagship product ColoAlert, which is based on PCR technology, detects more cases of colorectal cancer than other stool tests and enables for early diagnosis.

The product is already commercially available in some EU nations through a network of top independent laboratories, corporate health programs, and direct sales and the company is working towards US approval.

The company has already successfully completed its pre-submission process, and IRB approval for its pivotal FDA study, ReconAAsense. That means that FDA approval could potentially be in the future and if that happens, it could send this company into a new dimension.

ColoAlert will be tested in a pivotal FDA-registration trial 'ReconAAsense' to acquire commercial approval in the United States. Once licensed in the US, **Mainz Biomed**'s goal is to build scalable distribution across the country through a collaborative partner program with regional and national laboratory service providers.

**Mainz Biomed** has joined Eurofins GeLaMed to its network of lab partners delivering PCR test kit processing of ColoAlert. Eurofins GeLaMed is part of Eurofins Scientific, a multinational laboratory business with over 61,000 people in 61 countries and 450 million tests per year. It has four facilities in Germany.

Eurofins GeLaMed offers advanced diagnostics in human genetics, medical microbiology, laboratory medicine, and molecular diagnostics in eleven medical departments.

GeLaMed's over 500 staff process more than 15,000 orders each day and offer more than 2,000 analytical methods from their laboratory medicine and microbiological portfolios under medical professionals.

Eurofins Business Line Director Clinical Diagnostics DACH Marcus Cholewa said he was excited about **Mainz Biomed** and Eurofins GeLaMed's collaboration because Eurofins always provides excellent customer service, quality, advanced analytical solutions, and the most comprehensive testing methods. He also said that Eurofins has a history of providing innovative and high-value diagnostic testing solutions, and that by working, they might help identify colorectal cancer (CRC) and give patients individualized information to manage their health.

Under the agreement, Eurofins GeLaMed will offer ColoAlert at its testing sites and **Mainz Biomed** will help with physician and patient education programs for March Colorectal Cancer Awareness Month, emphasizing the importance of early screening for CRC detection and prevention.

Please [visit this link](#) for additional information on **Mainz Biomed (NASDAQ:MYNZ)** and its projects.

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