



# MedGenome Presents its Cancer Vaccine Approach for Lynch Syndrome Patients

*MedGenome presented a poster on its study of potential cancer vaccines for Lynch Syndrome patients*

SAN FRANCISCO, CALIFORNIA, UNITED STATES, February 24, 2018 /EINPresswire.com/ -- Attendees at the 2018 Molecular Medicine Tri-Conference heard [MedGenome](#), a global leader in genomics research and a partner to pharma/biotech companies and academic research institutions conducting complex disease biomarker-identification projects, describe its study of potential cancer vaccines for patients with Lynch syndrome. Lynch syndrome is an inherited condition linked to higher risk of various forms of cancer, including a 70 percent to 80 percent lifetime risk of developing colorectal cancer, with a mean onset age of 45 years.

Dr. Papia Chakraborty, senior scientist and head of immuno-oncology at MedGenome, spoke on “A Personalized Cancer Vaccine Approach to Treat Lynch Syndrome.”

Those diagnosed with Lynch syndrome carry harmful germline mutations in their DNA mismatch repair genes, whose primary role is to repair the body’s mutations in protein-coding genes in dividing cells, she said. Due to the lack of DNA repair function, these patients prematurely accumulate a large number of mutations in their genome with a risk of developing colorectal cancer. MedGenome had found that a small fraction of these mutations yields immunogenic peptides that can be synthesized and reintroduced into patients as a vaccine. These tumor-specific peptides can elicit a cytotoxic CD8 killer T cell response, which aids the reduction or even elimination of tumors.

MedGenome, which was invited to present the [poster](#) at the conference, has developed a highly sophisticated mutation screening pipeline called OncoPeptVAC that predicts patient-specific immunogenic peptides with high accuracy. In this study, the MedGenome team carried out exome and RNA sequencing in an Lynch syndrome patient to identify immunogenic peptides using the company’s proprietary OncoPeptVAC pipeline. The identified peptides candidates triggered a potent cytotoxic CD8 killer T cell response in blood samples obtained from the patient. These validated immunogenic peptides qualify as candidates for a personalized cancer vaccine therapy for Lynch syndrome tumor clearance. Depending on the patient’s tumor immune landscape (which can be assessed by MedGenome’s RNA sequence based OncoPeptTUME pipeline), the peptides have the potential to be used as a stand-alone therapy or in combination with existing chemotherapeutic regimens to obtain long-term clinical benefits.

About MedGenome:

MedGenome Inc., is a global leader in genomics research and a superior partner to pharma/biotech companies and academic research institutions conducting complex disease biomarker-identification projects. We have unique molecular-level insights into populations that suffer from inherited diseases at twice the rate of people in the United States and Europe thanks to our leadership in genomics-based diagnostics and research in India. About 5,000 isolated population groups there feature extreme homogeneity, or similarity within the group, yet significant heterogeneity, or differentiation between them. These groups are ideal for large-scale genetic-research studies for biomarker

discovery. Our global footprint includes laboratories in the United States, Singapore and India. Our 400 employees and expert scientists use industry-leading tools and solutions, bioinformatics and big-data analytics to unlock rich genomic insights into rare and complex diseases including cancer, cardiovascular diseases, diabetes, metabolic diseases, ophthalmological disorders, neurological diseases and rare inherited disorders. Our headquarters is in Foster City, California.

#### Forward-looking Statements:

This document contains certain forward-looking statements, other than the statements of research facts contained in this press release are forward looking statements. Terms such as "believe," "estimate," "anticipate," "plan," "predict," "may," "hope," "can," "will," "should," "expect," "intend," "is designed to," "with the intent," "potential," the negative of these words or such other variations thereon or comparable terminology, may indicate forward-looking statements, but their absence does not mean that a statement is not forward-looking. These forward-looking statements speak only as of the date of this press release. The events and circumstances reflected in MedGenome's forward-looking statements may not be achieved or occur and actual results could differ materially from those projected in the forward-looking statements. Except as required by applicable law, MedGenome does not plan to publicly update or revise any forward-looking statements contained herein, whether as a result of any new information, future events, changed circumstances or otherwise.

Sandy Levy, Hiranjith GH  
Gutenberg Communications LLC, MedGenome  
email us here  
2122398740

---

This press release can be viewed online at: <http://www.einpresswire.com>

Disclaimer: If you have any questions regarding information in this press release please contact the company listed in the press release. Please do not contact EIN Presswire. We will be unable to assist you with your inquiry. EIN Presswire disclaims any content contained in these releases.

© 1995-2018 IPD Group, Inc. All Right Reserved.