BostonGene Announces Acceptance of Abstracts to 2021 ASCO Annual Meeting

WALTHAM, MA – June 1, 2021 — BostonGene Corporation, a biomedical software company focused on defining optimal, precision medicine-based therapies for cancer patients, today announced that two abstracts have been accepted for online publication for the 2021 ASCO Annual Meeting.

“We are pleased to have multiple abstracts accepted for online publication,” said Nathan Fowler, MD, Chief Medical Officer at BostonGene. “Our findings underscore the importance of the application of novel and cutting-edge analytical tools to understand the composition and activity of the tumor and the microenvironment, which will improve treatment outcomes for cancer patients.”

The abstracts will be published online in the Journal of Clinical Oncology supplement for the ASCO Annual Meeting Proceedings.

Details about the abstracts selected for publication can be found below:

**Abstract Number:** e15050  
**Title:** The development of a computational machine learning tool to decipher malignant cell gene expression from complex tumor tissue

Complex tumor tissue is composed of malignant cells and diverse tumor microenvironment (TME) cellular populations. The percentage of malignant cells present in tumor tissue varies by cancer type, with percentages sometimes falling below 10%. TME cellular transcripts may comprise the majority of the total transcripts in a tumor, potentially resulting in biases during biomarker development and for clinical decision-making. A computational tool was created to “subtract” TME-specific gene expression from total gene expression in an array of solid tumors, producing in silico “purified” malignant cell gene expression.

**Abstract Number:** e15085  
**Title:** Analytical and clinical validation of the BostonGene Tumor Portrait assay

Analysis of the genetic and transcriptomic profile of solid tumors using next-generation sequencing (NGS) assays is fundamental to propel precision medicine into clinical practice. NGS technology applied to tumor analysis allows for the characterization of somatic alterations, clonality, altered gene expression, and other parameters using a small amount of tissue. The BostonGene Tumor Portrait Tests™, which integrate whole-exome sequencing (WES) and mRNA sequencing (RNA-seq), were developed to uncover cancer-promoting and -suppressing activity of the tumor and the tumor microenvironment (TME).
About BostonGene Corporation
BostonGene’s mission is to power healthcare’s transition to personalized medicine using our AI-based molecular and immune profiling to improve the standard of care, accelerate research, and improve economics. BostonGene Tumor Portrait Tests™ reveal key drivers of each tumor, including immune microenvironment properties, actionable mutations, biomarkers of response to diverse therapies, and recommended therapies. Through these comprehensive analyses, BostonGene Tumor Portrait Tests™ generate a personalized roadmap for therapeutic decision-making for each cancer patient. For more information, visit BostonGene at http://www.BostonGene.com.

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