Bionano Genomics Announces Extensive Lineup of Content at Association for Molecular Pathology (AMP) Annual Meeting Featuring OGM Utility Across Broad Range of Research Applications

October 28, 2022

- *Dr. Alka Chaubey, chief medical officer at Bionano, Dr. Nikhil Sahajpal, Greenwood Genetic Center, Dr. Rashmi Kanagal-Shamanna, MD Anderson Cancer Center, and Dr. Adam Smith, University Health Network will host a sponsored vendor presentation on studies that include multiple types of hematological malignancies, and highlight the benefits of combining optical genome mapping (OGM) with next generation sequencing (NGS) to maximize actionable results*

- *A scientific presentation featuring Dr. Chaubey, Dr. Kanagal-Shamanna, Dr. Ravindra Kolhe, Augusta University, and Dr. Christopher Lum, Queens Medical Center will cover methodologies for homologous recombination deficiency (HRD) assessment, including NGS, microarray and OGM, as well as bioinformatics approaches for analysis of data across solid tumors and hematological malignancies*

- *A plenary session will feature Dr. Smith delivering a presentation on the implementation of long-read sequencing (LRS) and OGM for cytogenetic research, and will be immediately followed by a panel discussion on the use of new tools, including OGM, in next generation cytogenomics, featuring Dr. Smith, Dr. Eric Duncavage, Washington University School of Medicine, Dr. Yassmine Akkari, Nationwide Children's Hospital and Dr. Robert Hasserjian, Massachusetts General Hospital*

- *Eleven scientific posters featuring results from OGM applications in prenatal and postnatal analysis, solid tumor, and hematological malignancy research will be presented at the conference*

SAN DIEGO, Oct. 28, 2022 (GLOBE NEWSWIRE) -- Bionano Genomics, Inc. (Nasdaq: BNGO) today announced its participation in the Association for Molecular Pathology (AMP) Annual Meeting and Expo 2022 with a broad range of content covering optical genome mapping's (OGM) utility for research applications including prenatal and postnatal analysis, genetic disease and hematological malignancies.

AMP's Annual Meeting brings together industry, medical, and academic professionals to discuss advances in the field of molecular diagnostics. The AMP conference will be held November 1-5, 2022, in Phoenix, Arizona.

Scientific presentations and poster sessions from Bionano and collaborators include:

Session	Title	Presenter	Presented
Corporate Workshop	Maximizing Detection of Pathogenic Structural Variants Across Hematological Malignancies with Optical Genome Mapping	Chaubey A., Sahajpal N., Kanagal-Shamanna R., Smith A.	November 2, 2022 9:00-9:50 AM PDT Room 229 AB
Corporate Workshop	Comprehensive Assessment of HRD From Next-Generation Sequencing and Optical Genome Mapping	Chaubey A., Kanagal-Shamanna R., Kolhe R., Lum C.	November 2, 2022 10:00-10:50 AM PDT Room 229 AB
Plenary Session	Implementation of Long-Read Sequencing and Optical Genome Mapping in the Cytogenetic Laboratory	Smith A.	November 4, 2022 3:45-5:15 PM PDT See program for location
Plenary Session	Next Generation Cytogenomics	Smith A., Duncavage E., Akkari Y., Hasserjian R.	November 4, 2022 3:45-5:15 PM PDT See program for location

Poster Title	Author/ Affiliation
Even-Numbered Posters: Friday, November 4 | 9:15 AM – 10:15 AM **Odd-Numbered Posters: Saturday, November 5 | 9:15 AM – 10:15 AM**	
Are we using the right tools to calculate homologous recombination deficiency (HRD) scores?	Kolhe Lab Augusta University

Compound heterozygous events in myeloid tumors: Next-generation approach with optical genome mapping and a 523-gene NGS panel	Kolhe Lab Augusta University
Mosaic structural variation detection with optical genome mapping: Lower limit of detection study	Kolhe Lab Augusta University
Bringing a new technology in CLIA laboratory: Our experience of clinical validation, getting AMA PLA code, and the Moldx Z-code for optical genome mapping for evaluation of hematological neoplasms	Kolhe Lab Augusta University
Going beyond karyotyping and FISH: Impact of optical genome mapping (OGM) with additional clinically relevant information in 75 hematological malignancy cases	Kolhe Lab Augusta University
Optical genome mapping: a potential tier I test for prenatal diagnostic testing	Kolhe Lab Augusta University
Clinical validation of optical genome mapping for postnatal application	Kolhe Lab Augusta University
Retrospective optical genome mapping analysis of FSHD1 and 2 negative patients with diminished methylation revealed exon deletions of SMCHD1	Stence Lab University of Iowa
NGS copy number signatures in the assessment of cancers of unknown origin: Targeting therapy	Lum Lab Queens Medical Center
Higher resolution and accurate breakpoint determination of a balanced translocation by optical genome mapping	Serrano M. Bionano Laboratories
Optical genome mapping workflow for somatic abnormality detection in multiple solid tumor types	Yu J. Bionano Genomics

“We are excited to see the highest number yet of presentations featuring OGM at AMP this year, demonstrating OGM’s utility for cutting-edge research applications in molecular pathology. We are also pleased to see sessions and posters covering the combination of OGM with NGS data to provide a more comprehensive picture of the genome,” commented Erik Holmlin, president and chief executive officer of Bionano.

More details on the conference can be found here.

About Bionano Genomics

Bionano Genomics is a provider of genome analysis solutions that can enable researchers and clinicians to reveal answers to challenging questions in biology and medicine. The Company’s mission is to transform the way the world sees the genome through OGM solutions, diagnostic services and software. The Company offers OGM solutions for applications across basic, translational and clinical research. Through its Lineagen, Inc. d/b/a Bionano Laboratories business, the Company also provides diagnostic testing for patients with clinical presentations consistent with autism spectrum disorder and other neurodevelopmental disabilities. Through its BioDiscovery business, the Company also offers an industry-leading, platform-agnostic software solution, which integrates next-generation sequencing and microarray data designed to provide analysis, visualization, interpretation and reporting of copy number variants, single-nucleotide variants and absence of heterozygosity across the genome in one consolidated view. For more information, visit www.bionanogenomics.com, www.bionanolaboratories.com or www.biodiscovery.com

Forward-Looking Statements of Bionano Genomics

This press release may contain forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. Forward-looking statements include statements regarding our intentions, beliefs, projections, outlook, analyses or current expectations concerning, among other things, the ability and utility of OGM to complement next generation sequencing (NGS) and provide a more comprehensive analysis of the genome for applications in genetic disease and cancer research. Each of these forward-looking statements involves risks and uncertainties. Actual results or developments may differ materially from those projected or implied in these forward-looking statements. Factors that may cause such a difference include the risks and uncertainties associated with: the impact of the COVID-19 pandemic on our business and the global economy; general market conditions; changes in the competitive landscape and the introduction of competitive technologies or improvements to existing technologies; failure of OGM to achieve useful complementarity with NGS; failure of OGM to be adopted for research applications; the ability of our OGM solutions to offer the anticipated benefits for and contributions to the areas of research reported in the presentations given and posters made available at the AMP Annual Meeting and Expo 2022; future study results contradicting the results reported in the presentations given and posters made available at the AMP Annual Meeting and Expo 2022; changes in our strategic and commercial plans; our ability to obtain sufficient financing to fund our strategic plans and commercialization efforts; the ability of medical and research institutions to obtain funding to support adoption or continued use of our technologies; and the risks and uncertainties associated with our business and financial condition in general, including the risks and uncertainties described in our filings with the Securities and Exchange Commission, including, without limitation, our Annual Report on Form 10-K for the year ended December 31, 2021 and in other filings subsequently made by us with the Securities and Exchange Commission. All forward-looking statements contained in this press release speak only as of the date on which they were made and are based on management’s assumptions and estimates as of such date. We do not undertake any obligation to publicly update any forward-looking statements, whether as a result of the receipt of new information, the occurrence of future events or otherwise.

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