Bionano Genomics Announces Participation at the European Society of Human Genetics Conference (ESHG) 2022 Featuring OGM Across a Broad Range of Clinical Research Applications and a Collaborative Product Development with Hamilton

June 10, 2022

- *The Long String VANTAGE for DNA isolation, a collaborative development between Bionano and Hamilton, and the world's first automation solution for Ultra High Molecular Weight (UHMW) extraction used in optical genome mapping (OGM), will be on display at the conference*
- *A corporate satellite presentation by Dr. Detlef Trost, Laboratoire CERBA, and Dr. Alexander Hoischen, Radboud UMC, will cover the latest research on OGM for rare undiagnosed genetic disease (RUGD) discovery*
- *Three featured scientific presentations, one each by Dr. Claudia Carvalho, Pacific Northwest Research Institute, Dr. Laïla El Khattabi, Hôpital Cochin, and Dr. Kornelia Neveling, Radboud UMC, will cover the use of OGM in research on complex genomic rearrangement structures, characterization of structural variations (SVs), and on repeat expansion disorder testing, respectively*
- *9 scientific poster presentations and e-posters will illustrate the application of Bionano's OGM solutions in constitutional disorders and RUGD diagnosis*

SAN DIEGO, June 10, 2022 (GLOBE NEWSWIRE) -- Bionano Genomics, Inc. (Nasdaq: BNGO) today announced its participation at the European Society of Human Genetics (ESHG) 2022 Conference, with 13 scientific and poster presentations highlighting the application of OGM across rare undiagnosed genetic disease and genetic disorders. Additionally, Bionano and Hamilton will present the Long String VANTAGE, the world's first automation solution for UHMW extraction used in OGM.

ESHG is an annual conference that brings together industry and academic professionals to discuss new technologies and advances in the field of human genetics. ESHG sessions will take place June 11-14, 2022 virtually and in Vienna, Austria.

Bionano and Hamilton jointly announced the Long String VANTAGE, which is the first Assay Ready Workstation solution in Hamilton´s Long String Genomics product program which supports extraction of UHMW DNA at increased scale. Attendees at ESHG will be able to learn more about the Long String VANTAGE at both companies' booths and can experience a demonstration of the workflow at Hamilton's booth throughout the conference.

As part of a corporate satellite presentation, Dr. Detlef Trost from Laboratoire CERBA, and Dr. Alexander Hoischen from Radboud UMC, will share their latest research on OGM for RUGD.

Three genomics researchers will participate in separate featured scientific presentations, highlighting use of OGM in genetic disorder testing. Dr. Claudia Carvalho of the Pacific Northwest Research Institute will present on complex genomic rearrangement structures (CGRs) in neurodevelopmental disorders. Dr. Laïla El Khattabi will present on a recent study highlighting the OGM in the characterization of complex SVs. Dr. Kornelia Neveling from Radboud UMC will present on repeat expansion disorder testing using OGM.

Scientific presentations and poster sessions from Bionano and customers include:

Room	**Title**	**Presenter**	**Presented**
ACV, Room G, Level-2	See More, Know More: How OGM Provides Answers for Rare Undiagnosed Genetic Disease	Trost D., Hoischen A., Delpu Y.	June 11, 2022 10:00-11:30 CEST
Hall E-2, Concurrent Symposia S05	S05.2: Identification of Complex Genomic Rearrangement Structures in Disease	Carvalho C.	June 12, 2022 8:30-10:00 CEST
Hall E2-Workshop: What's New in Cytogenomics?	W12: Optical Genome Mapping Enables Next-Generation Cytogenetics	El Khattabi L.	June 13, 2022 14:00-15:30 CEST
Hall E2- Concurrent Sessions C27	C27.3: Optical Genome Mapping for Repeat Expansion Disorder Testing	Neveling K.	June 14, 2022 11:00-12:30 CEST
Poster	**Title**	**Author**	**Presented**
P15.004.A	Structural and copy number variant detection, filtering, annotation, and classification by optical genome mapping in constitutional disorders	Delpu Y.	Poster Session June 12, 2022 13:00-14:00 CEST
P11.010.A	FSHD analysis pipeline by Bionano optical genome mapping: A field report	Heinrich U.	Poster Session June 12, 2022 13:00-14:00 CEST

P13.107.A	An insertion in the MSH2 gene detected by Bionano optical mapping and confirmed by Nanopore sequencing in a family with suspected Lynch Syndrome	Aaløkken R.	Poster Session June 12, 2022 13:00-14:00 CEST
P09.027.C	Optical genome mapping analysis of FMR1 expansions in fragile X syndrome and multi-site validation	Venier A.	Poster Session June 13, 2022 12:45-13:45 CEST
P15.003.D	Comparative benchmarking of optical genome mapping and chromosomal microarray reveals high technological concordance in CNV identification and structural variant refinement	Jaber D.	Poster Session June 13, 2022 15:45-16:45 CEST
P16.020.D	Optical genome mapping in routine human genetic diagnostics: Lessons learned	Dremsek P.	Poster Session June 13, 2022 15:45-16:45 CEST
P16.032.D	Optical Genome Mapping as a diagnostic tool in cases of unresolved rare diseases	Trost D.	Poster Session June 13, 2022 15:45-16:45 CEST
EP15.018	A paracentric inversion that disrupts the SHANK2 gene resolved using cytogenomics	Huyghebaert J.	E-Poster
EP15.002	Recurrent constitutional chromosome five inversion revisited	Doco-Fenzy M.	E-Poster

More details on the conference can be found here.

“We are thrilled to see the broad range of presentations featuring OGM at ESHG this year. These institutions and their research teams have conducted innovative research to help demonstrate the potential utility of OGM as a more sensitive, faster and less expensive alternative to traditional cytogenetics methods,” commented Erik Holmlin, president and chief executive officer of Bionano. “We are also excited for attendees to learn more about our collaboration with Hamilton and the Long String VANTAGE automation system. We believe this innovation can significantly reduce time to results, reduce hands on time and improve OGM performance by standardizing the process of UHMW DNA isolation, and we look forward to sharing more at ESHG.”

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 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.lineagen.com or www.biodiscovery.com

Forward-Looking Statements of Bionano Genomics

This press release contains forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. Words such as “believe,” “potential,” “can,” “will,” and similar expressions (as well as other words or expressions referencing future events, conditions or circumstances) convey uncertainty of future events or outcomes and are intended to identify these forward-looking statements. Forward-looking statements include statements regarding our intentions, beliefs, projections, outlook, analyses or current expectations concerning, among other things, the potential contribution of our OGM solutions to offer the anticipated benefits for and contributions to the areas reported in the presentations given and posters made available at the ESHG Annual Meeting; anticipated benefits and improvements resulting from the use of Long String VANTAGE to reliably and consistently isolate high quality and sufficient quantity of UHMW DNA for use with OGM . 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; 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 ESHG Annual Meeting; future study results contradicting the results reported in the presentations given and posters made available at the ESHG Annual Meeting; the ability of Long String VANTAGE system to reliably and consistently isolate high quality and sufficient quantity of UHMW DNA for use with OGM; 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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