SOFTGENETICS®
Software PowerTools for Genetic Analysis

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FOR IMMEDIATE RELEASE

Significant advancements implemented in new NextGENe® NGS Analysis Software

September 25, 2013 State College PA SoftGenetics announced release of the latest version of its highly regarded NGS analysis software. The latest version of the software includes many advanced technologies including optimized algorithms that increase analysis speed up to 60%; a sophisticated new algorithm and visualization of copy-number variation (CNV) detection from a wide variety of projects, including whole-exome and targeted sequencing panels; ability to include and visualize custom, COSMIC and ESP databases; advanced reporting including target region coverage curve and statistics, creation of project summary reports in PDF format, as well as the ability to save consensus SNP and sequence reports.

Also included in the newly released version is the ability to create a fully automated analysis pipeline from sequencing platform, analysis of raw data or BAM files and filing of analysis into the company's **Geneticist Assistant**™ NGS Interpretative Workbench; Advanced trimming options which prevent over-trimming of overlapping amplicons; a hovering feature to immediately visualize essential sequence statistics, such as depth of coverage, read balance, variant allele percent at variant positions; as well as a new user management tool.

In regard to the new CNV technology, John McGuigan, Biologist at SoftGenetics stated, "Like many other CNV tools, this approach is based on the assumption that the copy number affects the level of coverage. NextGENe's new CNV algorithm takes it a step further and tests that assumption to provide an appropriate level of confidence. It then uses a Hidden Markov Model (HMM) to translate this confidence into CNV calls. The entire process is implemented in an easy-to-use interface that allows for simple fully-automated analysis or for manual tweaking of parameters to get the optimum results. The new graphical view makes it easy to visualize the raw data and the final results in an integrated way."

"Now, using NextGENe software's automated pipeline", added Kevin LeVan Product Manager, "users can produce even more quality assurance reports while concentrating the variant results relative to additional supported tracks including the Exome Variant Server, the latest dbNSFP database and their own curated custom SNPs."

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NextGENe is a comprehensive, free-standing Windows® based analysis program compatible with all NGS sequencing platforms. The easy-to-use user interface requires no scripting, provides highly graphical results and reporting, with multiple filtering options, multiple analysis comparison capabilities as well as causative prediction from multiple databases including COSMIC, dbNSFP which includes 1000 genome frequency, PolyPhen and other functional prediction databases. The company offers 30-day trials and no cost web-based training on its genetic analysis software packages.