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Prediction Capability added to NextGENe software

September 2, 2011, State College PA announced the addition of new database functionalities to its NextGENe software that when used with previously existing filtering capabilities, quickly provides causative mutation candidates in rare disease or other studies. NextGENe is a free-standing Windows® based multi-application software for the analysis of NGS data from all major next generation sequencing platforms including the Ion PGM, Roche, Illumina and SOLiD System.

Developed in collaboration with the researchers from the Undiagnosed Diseases Program at the National Institutes of Health, NextGENe's new functionality rapidly filters detected variants in familial or other comparisons. This results in a significant reduction of the number of causative candidates, which have available prediction scores that have been imported into NextGENe from the dbNSFP database including 1000 genomes frequency, PolyPhen-2, Mutation Taster, SIFT, LRT and PhyloP.

In a study of a six member family, (2 unaffected parents, 2 affected children and 2 unaffected children), the list of 278,875 total detected variants was quickly reduced by NextGENe's filtering capabilities to 26 variants with conserved or functional damaging prediction. Only 4 variants were left when dbSNP variants were excluded.

"NextGENe software's ability to quickly and accurately reduce hundreds of thousands of variants to a small number of possible causative candidates," indicated John McGuigan, leader of the development group, "provides a unique tool to both researchers and geneticists alike. As NextGENe is Windows based, there is little if any bioinformatics requirement, which enables the biologist/geneticist to reduce or eliminate bioinformatics cost and speed discovery or disease diagnosis."

The company offers 30-day trials and no cost web-based training on its genetic analysis software packages. Interested parties may request the software on the company website: www.softgenetics.com or via email: info@softgenetics.com.

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SoftGenetics, LLC specializes in the development of genetic analysis tools for both research and diagnostic applications. Hallmarks of SoftGenetics software tools are advanced technologies, providing exceptional accuracy, and sensitivity in an easy-to use Windows® user interface.

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