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Advanced Microarray Data Analysis Now Available Online at *ondemand.biomind.com*

Rockville, MD -- April 25, 2005 – It had to happen eventually: advanced analysis of some of the most complex biological data ever produced, available online to anyone with a Web browser. In April, Maryland bioinformatics firm Biomind LLC took the next step in the Web-ification of biology, by launching ArrayGenius OnDemand, an online version of its flagship microarray data analysis product.

Biologists have long been accessing all sorts of genomic and proteomic data online; and the NIH websites also perform basic bioinformatics computations, such as using the BLAST algorithm to compare two genes or proteins for based on their underlying amino acid sequence. But more complex analysis of more subtle sorts of biological data has remained the province of conventional enterprise and desktop software products. An example is microarray data, which measures the extent to which genes are expressed in a cell at a given point in time. Microarray data is noisier and more voluminous than gene sequence data, and most researchers have dealt with it via their own custom analysis scripts, or via desktop commercial software programs like GeneSpring and Spotfire.

Biomind's ArrayGenius analyzes microarray data in an uncommonly sophisticated way, using advanced machine learning algorithms to find logical and mathematical rules explaining the differences between different categories of microarray samples (e.g. cancerous tissues versus controls). It incorporates databases like the Gene Ontology (www.geneontology.org) and the Protein Information Resource (http://pir.georgetown.edu/) into its learning algorithms, allowing it to make highly educated guesses regarding the specific biological processes that are important for understanding the microarray data under analysis.

Last year, Biomind scientists collaborated with the Centers for Disease Control and Prevention on a project using the Biomind ArrayGenius to understand the processes and patterns underlying a very elusive medical disorder, Chronic Fatigue Syndrome. Now this same analytical power is available to any scientist collecting microarray data – you can upload your data to ondemand.biomind.com with a few mouseclicks, and then order up some

advanced analytics, and have the results emailed to you when the software is done thinking about it. For the moment, all the features of the ArrayGenius are available for use free of charge. Many ArrayGenius features will remain free for the long term, but after an introductory period Biomind will charge forf the more computationally expensive aspects of the service.

Later in 2005, ArrayGenius OnDemand will be followed up with another powerful online data analysis and visualization product, PathwayGenius OnDemand, integrating other data such as SNP's and protein-protein interactions along with microarray data. And there is also a sister website, go.biomind.com, which showcases hitherto-unclassified genes for which Biomind's software has guessed the biological function, via automated data integration. Year by year, website by website, biology and the Internet are advancing together.

For additional information, including preprints describing detailed technical work related to ondemand.biomind.com, contact: Dr. Ben Goertzel -- Phone: 240-505-6518 -- *ben@biomind.com*