

How Israeli software improves crop yields through genetic analysis

NRGene is working with [Syngenta Ag](#) and [Monsanto Co.](#) to detect plant traits that can produce higher-yielding crops, and with gene-sequencer Illumina Inc. to improve cattle herds. It says its cloud-based software speeds up development of crops and breeding by as much as 30 percent.

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At [Kansas State University](#), NRGene's technology streamlines mapping of complicated wheat genomes. That drives prediction models that make it easier and cheaper to test for higher-yielding, better quality wheat, said Jesse Poland, assistant professor at the school's department of plant pathology.

"NRGene is the critical piece for putting all the data together," he said.

At Monsanto, which announced a multiyear global licensing agreement with NRGene Thursday, the platform will analyze more than one billion data points to find traits that can lead to more sustainable food production with fewer pesticides and more efficient use of water, said Tom Osborn, molecular breeding technology director for the world's largest seed company.

Syngenta said in a press release earlier this month it was expanding its use of NRGene's software to accelerate trait discovery and breeding across diverse crops.

Illumina's Ryan Rapp, associate director of agrigenomics, said the company's collaboration with NRGene would analyze the genome sequence a cattle species that tolerates heat and has disease resistance to numerous pests throughout the world.

The GLP aggregated and excerpted this blog/article to reflect the diversity of news, opinion, and analysis. Read full, original post: [Israeli Technology Helps Giants Like Monsanto Feed the World](#)