

Big data meets CRISPR: 'Cloud biology' platform could speed up gene editing crop improvement

Benson Hill Biosystems, an agricultural technology company, reports the launch of Edit, which is powered by CropOS™, a computational platform which, the company claims, is the only predictive engine targeted at the food and ag value chain to identify what sequence within the plant genome to edit.

According to Matt Crisp, CEO and co-founder of Benson Hill Biosystems, Edit is the first complete genome editing system made accessible to partners for the development of improved crops.

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The Edit system combines CropOS with a portfolio of CRISPR 3.0 genome editing nucleases to create a genome editing system. Edit has been designed to optimize plant characteristics such as flavor profiles, nutrient-density, and environmental sustainability with greater speed and precision than previously possible, say company officials.

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For decades, high R&D costs limited advanced genomic innovation to just a handful of multinational ag input companies focused squarely on high acre crops like corn and soy and almost exclusively on defensive traits like herbicide tolerance and insect resistance that appeal to farmers, said Crisp, who added that “this approach was successful in improving the yield and the efficiency of those select crops, but it created gaps and unmet opportunity that we can’t afford to continue in a modern food system.”

The GLP aggregated and excerpted this article to reflect the diversity of news, opinion and analysis. Read full, original post: [Fully Enabling Genome-Editing System for Crop Improvement Launched](#)