

Climate change-fighting rice? Plants trap carbon dioxide as they grow — and CRISPR gene editing can optimize this process

Can gene-editing technology CRISPR create new crops that help fight climate change as they grow? That's what a group of researchers hopes to do with \$11 million in funding from the Chan Zuckerberg Initiative. The funding will go toward efforts to enhance plants — starting with rice — and soil so that they're better at trapping carbon dioxide. The effort, which was announced [last week](#), is being led by the Innovative Genomics Institute, which was founded by [Nobel laureate](#) and co-inventor of CRISPR Jennifer Doudna.

“[Jennifer] and I saw eye to eye on climate and how big of a problem it is in the world. And we just didn't want to sit on the sidelines anymore,” says Innovative Genomics Institute (IGI) executive director Brad Ringeisen.

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The rice genome is easier to manipulate than other crops, according to Ringeisen, in part because it's already been studied a lot and is [well understood](#). One of the scientists involved in IGI's initiative is Pamela Ronald, whose research is widely known for leading to the [development of rice varieties](#) that tolerate flooding for much longer than other types using a different type of genetic engineering that's more like [precision breeding](#). That rice is now grown by more than 6 million farmers across India and Bangladesh, [according to](#) Ronald's laboratory at the University of California, Davis.

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