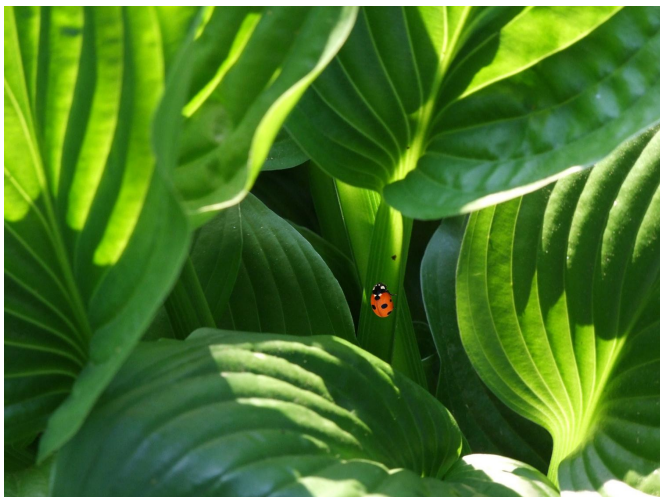


Hijacking hormones for plant growth

8 August 2018



physiology of other plant parts or neighbors," said lead author Dr. Keiko Torii, of the University of Washington, in Seattle.

More information: Keiko U. Torii et al, Harnessing synthetic chemistry to probe and hijack auxin signaling, *New Phytologist* (2018). [DOI: 10.1111/nph.15337](https://doi.org/10.1111/nph.15337)

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Hormones designed in the lab through a technique combining chemistry, biology, and engineering might be used to manipulate plant growth in numerous ways, according to a *New Phytologist* study.

Scientists harnessed the power of [synthetic chemistry](#) to design compounds similar to auxin, a small chemical hormone that controls nearly all aspects of [plant growth](#), development, and behavior.

These compounds might be used for various agricultural purposes, for example for manipulating the ripening of fruit crops or for preventing the undesirable spread of transgenes (genes that have been transferred from one organism to another) in the field.

"It is truly gratifying as a [plant biologist](#) that collaboration with synthetic chemists could yield such a game-changing tool. With a new version of auxin and its engineered receptor, we could possibly pinpoint the desired auxin action in target plants or tissues of interest without disrupting the

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