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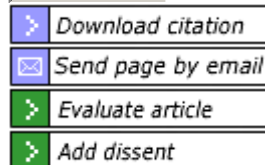


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## Broad virus resistance in transgenic plants.

Prins M

*Trends Biotechnol* 2003 Sep 21(9):373-5 [[abstract on PubMed](#)] [[citations on Google Scholar](#)]

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### Faculty Member

#### Niklaus Ammann

University of Berne, Switzerland

PLANT BIOLOGY



Hypothesis

### Comments

**This promising hypothesis says that the combination of RNA- and protein-mediated forms of transgenic resistance in crops could prove to be high, broad and durable.** Rapid adaptation by viruses in the field can only be countered by designing strategies (such as the aptamer strategy) to operate against essential domains of a protein that probably cannot be altered without inflicting serious reductions in virus fitness. Baulcombe's research group revealed that RNA-mediated resistance was 'merely' preprogramming, and thereby enhancing a previously unidentified antiviral strategy in plants, in a way that is best described as a potent genetic vaccination against viral sequences. See also Uhrig JF, *Trends Biotechnol* 2003, 21:376-7 [[PMID:12948666](#)].

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