

On the Cover: Plant defense responses to attack by insect herbivores, such as the cabbage looper (*Trichoplusia ni*) shown here on the crucifer *Arabidopsis thaliana*, are triggered by the lipid-derived hormone jasmonate. Jasmonate-induced production of defense compounds depends on an ample supply of primary metabolic precursors and is often accompanied by a decrease in the growth and reproductive performance of the host plant. Major et al. find that growth inhibition of *Arabidopsis* at high levels of defense is associated with dysregulation of tryptophan biosynthesis. Image by: Kurt Stepnitz.

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