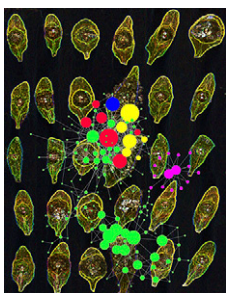


# T H E P L A N T C E L L

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## ON THE COVER



To respond to pathogen attack, plants have evolved a highly effective and inducible defense system. Central to this system are the plant defense hormones jasmonic acid (JA) and salicylic acid (SA) and crosstalk between the two. Zhang et al. (pages 2727–2752) used the *Arabidopsis-Botrytis cinerea* pathosystem to test how the host's defense system functions against genetic variation in a pathogen. They measured defense-related phenotypes and transcriptomic responses in *Arabidopsis* wild type (Col-0) compared to the *coi1-1* and *npr1-1*, JA- and SA-signaling mutants, individually challenged with 96 diverse *B. cinerea* isolates. The data showed that plants utilize major defense hormone pathways to buffer disease resistance, but the underlying transcriptomic responses to genetic variation within a pathogen remain highly plastic. The cover image depicts gene coexpression networks associated with variation in *Arabidopsis* transcriptomic responses to natural genetic variation in *B. cinerea*.

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