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On the Cover: The cover of this *Focus Issue* devoted to plant-arthropod interactions shows the leaf beetle *Chrysochus auratus* on spreading dogbane, *Apocynum androsaemifolium*. Eggs are laid on leaves or the ground, and larvae tunnel to roots to feed and complete their life cycle. *C. auratus* not only tolerates highly toxic cardenolides found in *A. androsaemifolium* and other Apocynaceae, but also sequesters these plant secondary metabolites for its own defense against predators. Resistance to cardenolides is mediated by a point mutation in the *C. auratus* Na⁺/K⁺-ATPase. In an interesting example of convergent evolution in plant-herbivore interactions, the same target-site mutation provides cardenolide resistance in monarch butterflies (*Danaus plexippus*). Updates and research articles in this issue describe signaling pathways leading to induced plant defense responses, the protective function of secondary metabolites, cross talk in defense signaling, ecological relationships between plants and herbivores, prospects for engineering insect-resistant crops, and other current topics in the multidisciplinary field of plant-arthropod interactions. Cover photo is by Anurag Agrawal (Cornell University).

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