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**Watch your step, there is new chemistry everywhere ...**

... In their Communication on page 11063 ff., S. F. Brady and H.-S. Kang describe a potent new anthracycline discovered by soil-DNA mining methods. DNA extracted from Sonoran Desert soil (USA) was screened for gene clusters predicted to produce new natural products. The soil-DNA-derived *arm* cluster encodes arimamycin A, an anthracycline that is active against multidrug-resistant cancer cells and more potent than natural anthracyclines currently used in cancer therapy.

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