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Platanosides: A promising new class of plant derived antibiotics with activity against MRSA and other drug resistant isolates

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Plants have historically produced some of the most highly complex and biologically active natural products found in the environment. These metabolites have the distinction for being some of the most important controls for cancer currently in clinical use. Despite their tremendous value in regard to control for cancer, the primary source of antibiotics has been from soil bacteria and fungi rather than plants. We will illustrate in this presentation how the microbiome of plants may offer a unique and new generation

of antibiotic drug leads. The platanosides will be discussed and represent a new class of antibiotics with significant potential in the control of drug-resistant infectious diseases. In addition, we will illustrate how the application of computational tools combined with NMR spectroscopy can significantly expedite as well as improve upon the accuracy of NMR based structure assignments of new antibiotic drug leads.

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