



This week in techniques

Approach	Summary	Licensing status	Publication and contact information
Assays & screens			
Identifying natural- product antibiotics through induced expression of biosynthetic gene clusters	sequenced biosynthetic gene clusters were identified, cloned into a plasmid and then coexpressed in <i>Streptomyces albus</i> along with the corresponding gene cluster they were predicted to control. Screening and fractionation of these <i>S. albus</i> cultures identified a tetracyclic antibiotic, tetarimycin A, with an MIC of 0.78 µg/ml against methicillin-resistant <i>Staphylococcus aureus</i> (MRSA). Next steps include scaling this approach to look at a larger number of environmental DNA-derived gene clusters arising from a more diverse set of environments.	Patent and licensing status undisclosed	Kallifidas, D. et al. J. Am. Chem. Soc.; published online Nov. 16, 2012 doi:10.1021/ja3093828 Contact: Sean F. Brady, The Rockefeller University, New York, N.Y. e-mail: sbrady@rockefeller.edu
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