



## This week in techniques

Approach	Summary	Licensing status	Publication and contact infor- mation
Assays & screens			
Bacterial reporter system to identify DNA-binding transcription factors	In vitro studies suggest that a bacterial one-hybrid reporter vector system could be used to identify new targets to treat bacterial infection. Unlike other bacterial one-hybrid systems, the reporter vector is compatible with other nonbacterial libraries. Using promoter regions of Mycobacterium tuberculosis genes, the system identified about 100 unknown interactions between transcriptional regulators and DNA sequences involved in essential processes for bacterial growth. One of the key targets was a transcription factor, transcriptional regulatory protein WHIB-like (WHIB3), that binds to the promoter sequence of many in vivo—induced genes when M. tuberculosis invades macrophages. Next steps include designing compounds to alter the interaction between genes and target promoters.  SciBX 2(9); doi:10.1038/scibx.2009.380	Screening technique and drug target patented by Huazhong Agricultural University; unavailable for licensing	Guo, M. et al. Genome Res.; published online Feb. 28, 2009; doi:10.1101/gr.086595.108 Contact: Zheng-Guo He, Huazhong Agricultural University, Wuhan, China e-mail: hezhengguo@mail.hzau.edu.cn
	Published online March 5, 2009		