This week in techniques

Approach	Summary	Licensing status	Publication and contact information
Computational models			
Gene expression profile-based disease diagnosis using the National Center for Biotechnology Information's Gene Expression Omnibus (GEO) database	An effort to translate GEO microarray data into a searchable, phenotype-linked database could help improve disease diagnosis. GEO microarray data were standardized and linked to disease indications, such as metabolic diseases, anemia and colitis, that described the microarray's phenotype. An automated search of a standardized sample database consisting of 9,169 microarrays paired with 110 disease concepts accurately diagnosed the diseases underlying 3 test microarrays. Ongoing work is focused on expanding the method to include direct RNA sequencing-derived expression information. SciBX 3(13); doi:10.1038/scibx.2010.418 Published online April 1, 2010	Patent and licensing status undisclosed	Huang, H. <i>et al. Proc. Natl. Acad. Sci. USA</i> ; published online March 22, 2010; doi:10.1073/pnas.0912043107 Contact: Xianghong Jasmine Zhou, University of Southern California, Los Angeles, Calif. e-mail: xjzhou@usc.edu Contact: Haiyan Huang, University of California, Berkeley, Calif. e-mail: hhuang@stat.berkeley.edu