This week in techniques

Approach	Summary	Licensing status	Publication and contact information
Chemistry			
Single-molecule nanopore DNA sequencing	<p>A single-molecule nanopore combined with an exonuclease DNA processing system (exonuclease I) could be useful for high-speed, low-cost DNA sequencing without the need for fluorescent labeling. A protein nanopore with a covalently attached adapter molecule was able to continuously identify unlabeled nucleosides with 99.8% accuracy. Next steps include integrating the base-detecting nanopore into a more efficient exonuclease sequencing system with better salt tolerance, digestion rate and stability.</p> <p>SciBX 2(10); doi:10.1038/scibx.2009.424 Published online March 12, 2009</p>	<p>Oxford Nanopore Technologies Ltd. has patent protection for its technologies; the first-generation nanopore sequencing technology will be exclusively commercialized by Illumina Inc.</p>	<p>Clarke, J. <i>et al. Nat. Nanotechnol.</i>; published online Feb. 22, 2009; doi:10.1038/NNANO.2009.12 Contact: Hagan Bayley, University of Oxford, Oxford, U.K. e-mail: hagan.bayley@chem.ox.ac.uk</p>