This week in techniques

Approach	Summary	Licensing status	Publication and contact information
Instrumentation			
High-resolution microfluidics-based NMR probe	A microfluidics-based NMR probe could track chemical reaction kinetics and measure the composition of nanomolar volumes of serum drawn from patients. High-resolution NMR spectra obtained with the device allowed for real-time, <i>in situ</i> monitoring of the kinetics of chemical reactions lasting from a few seconds to 30 minutes. The device also obtained high-resolution NMR spectra on micromolar concentrations of metabolites present in a 5 μL sample of human cerebrospinal fluid. Ongoing work with the device includes studies of murine cerebrospinal fluid and examining the possibility of adding biological sample preparation into the probe design. SciBX 2(14); doi:10.1038/scibx.2009.603 Published online April 9, 2009	Patent and licensing status undisclosed	Bart, J. <i>et al.</i> <i>J. Am. Chem. Soc.</i>; published online March 25, 2009; doi:10.1021/ja900389x Contact: Arno P.M. Kentgens, Radboud University, Nijmegen, the Netherlands email: a.kentgens@nmr.ru.nl