This week in techniques

Approach	Summary	Licensing status	Publication and contact information
Imaging			
Hyperspectral stimulated Raman scattering (hsSRS) to image drug interactions in live cells	Cell culture studies suggest the hsSRS imaging approach can be used to study drug-drug interactions in cells. In cultured cell lines, hsSRS revealed that the BCR-ABL tyrosine kinase inhibitors Gleevec imatinib and Tasigna nilotinib accumulated in lysosomes, with nilotinib showing 80 higher accumulation than predicted values based on the drug's chemical properties. In imatinib-treated cell lines, hsSRS imaging data suggested chloroquine could improve the efficacy of imatinib by increasing the cytosolic availability of the cancer drug. Next steps could include improving the sensitivity of the technique so less potent drugs can be studied. Gleevec and Tasigna are marketed by Novartis AG to treat various cancers. Chloroquine is a generic drug used to treat malaria. SciBX 7(24); doi:10.1038/scibx.2014.722 Published online June 19, 2014	Patent and licensing status unavailable	Fu, D. <i>et al. Nat. Chem.</i>; published online May 25, 2014; doi:10.1038/nchem.1961 Contact: X. Sunney Xie, Harvard University, Cambridge, Mass. e-mail: xie@chemistry.harvard.edu