

This week in techniques

| Approach | Summary | Licensing status | Publication and contact information |
|--|--|---|---|
| Imaging | | | |
| Multiplexed ion beam imaging (MIBI) for detection of up to 100 target proteins in clinical samples | Imaging studies suggest MIBI could simultaneously detect up to 100 antigen targets for clinical diagnostics. MIBI involves incubation of biological samples with antibodies coupled to lanthanides, which release secondary ions when exposed to an ion beam. The ions are detected by a magnetic sector mass spectrometer that analyzes each isotope and measures levels of each target. In peripheral blood mononuclear cells, staining with several coupled antibodies generated signals with intensities similar to those for mass spectrometry. In formalin-fixed, paraffin-embedded human breast tumor specimens, MIBI simultaneously and quantitatively detected 10 antigen labels. Next steps include prototype construction and validation. | Patent application filed; available for licensing | Angelo, M. <i>et al. Nat. Med.</i> ; published online March 2, 2014; doi:10.1038/nm.3488 Contact: Garry P. Nolan, Stanford University, Stanford, Calif. e-mail: gnolan@stanford.edu |
| | SciBX 7(13); doi:10.1038/scibx.2014.387 Published online April 3, 2014 | | |