

This week in techniques

Approach	Summary	Licensing status	Publication and contact information
Assays & screens			
Puromycin-associated nascent chain proteomics (PUNCH-P) for monitoring protein synthesis	PUNCH-P could be used to identify and quantify rapid proteome responses in disease states. The PUNCH-P process involves cell-free labeling of nascent proteins with biotinylated puromycin followed by a streptavidin-affinity purification step and analysis with liquid chromatography-tandem mass spectrometry. In human cell lines, PUNCH-P quantified mRNA translation products with accuracy comparable to that of two established proteomic approaches and was able to monitor cell cycle-specific fluctuations in mRNA translation for over 5,000 proteins. PUNCH-P also was used to generate a protein translation profile of the mouse brain from <i>ex vivo</i> samples. Next steps include evaluating PUNCH-P for diseases of the brain and for monitoring cancer progression.	Unpatented; licensing status not applicable	Aviner, R. <i>et al. Genes Dev.</i> ; published online Aug. 9, 2013; doi:10.1101/gad.219105.113 Contact: Orna Elroy-Stein, Tel Aviv University, Tel Aviv, Israel e-mail: ornaes@tauex.tau.ac.il Contact: Tamar Geiger, same affiliation as above e-mail: geiger@post.tau.ac.il
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