



## This week in techniques

Approach	Summary	Licensing status	Publication and contact information
Computational models			
Computational model to predict tumor genotype and response to oncogene-targeted treatments	A computational model based on quantitative imaging and markers of survival and death signaling could help predict which patients will respond to oncogene-targeted cancer therapy. In mice with lung cancer or lymphoma, a computational model that incorporates quantitative tumor imaging data plus survival and death process measurements was able to model tumor growth and response to oncogene-targeted therapy. In human lung cancer patients, the model predicted which patients had epidermal growth factor receptor (EGFR)-driven cancers and would respond to erlotinib with 93% accuracy. Next steps include larger prospective clinical trials.  Tarceva erlotinib, a small molecule EGFR inhibitor from Astellas Pharma Inc., Chugai Pharmaceutical Co. Ltd. and Roche, is marketed to treat non–small cell lung cancer (NSCLC) and pancreatic cancer.	Unpatented; licensing status not applicable	Tran, P.T. et al. Sci. Transl. Med.; published online Oct. 5, 2011; doi:10.1126/scitranslmed.3002018 Contact: Dean W. Felsher, Stanford University School of Medicine, Stanford, Calif. e-mail: dfelsher@stanford.edu Contact: David Paik, same affiliation as above e-mail: david.paik@stanford.edu

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