



This week in techniques

Approach	Summary	Licensing status	Publication and contact information
Disease models			
3D neuronal culture model of Alzheimer's disease (AD)	A 3D neuronal culture model of AD could help screen for new therapeutics. Neuronal progenitor cells overexpressing AD-linked mutant amyloid precursor protein (APP) and presenilin 1 (PSEN1; PS1) were cultured on a 3D matrigel matrix and differentiated into neural and glial cells. The neurons expressed pathogenic β -amyloid (A β) and phosphorylated microtubule-associated protein- τ (tau; MAPT; FTDP-17) and developed extracellular A β deposits and tau neurofibrillary tangles. In the 3D culture model, β -secretase and γ -secretase inhibitors that block A β production decreased A β plaques and tau fibrils compared with vehicle control. Next steps include modifying the model to incorporate additional glial cells and other cell types.	Patented; available for licensing	Choi, S.H. et al. Nature; published online Oct. 12, 2014; doi:10.1038/nature13800 Contact: Doo Yeon Kim, Harvard Medical School, Boston, Mass. e-mail: dkim@helix.mgh.harvard.edu Contact: Rudolph E. Tanzi, same affiliation as above e-mail: tanzi@helix.mgh.harvard.edu
	SciBX 7(43); doi:10.1038/scibx.2014.1272 Published online Nov. 6, 2014		