

This week in techniques

Approach	Summary	Licensing status	Publication and contact information
Chemistry			
Palladium (Pd)-catalyzed trifluoromethylation of aryl compounds	A chemical synthesis method could facilitate the incorporation of trifluoromethyl (CF ₃) functionalities into a wide range of drug-like molecules. The method used a Pd-based catalyst under mild reaction conditions to convert aryl chlorides into the corresponding aryl-CF ₃ products at >70% yield. The method added CF ₃ to a range of structures that occur in drug-like compounds, including indoles, quinolines and benzofurans, and to structures containing ester, amide, nitrile and other functional groups. Ongoing work includes optimizing the reaction conditions and further defining the range of structures amenable to it.	Unpatented; licensing status undisclosed	Cho, E.J. <i>et al. Science</i> ; published online June 24, 2010; doi:10.1126/science.1190524 Contact: Stephen L. Buchwald, Massachusetts Institute of Technology, Cambridge, Mass. e-mail: sbuchwal@mit.edu
	SciBX 3(26); doi:10.1038/scibx.2010.803 Published online July 1, 2010		