**Synthesis of Tetrasubstituted Alkenes through a Stannyllithiation**

**Significance:** The authors disclose a stannyllithiation of diarylacetylenes to yield tetrasubstituted alkenes. Relatively few methods exist to access these synthons since regio- and stereoselectivity are often a problem. The utility of this strategy is showcased by a synthesis of two isomers of hydroxytamoxifen (5 and 6) and dibenzo[g,p]-chrysene (7).


**Comment:** The regioselectivity of this transformation largely depends on the steric and electronic parameters of the aryl groups. In general, Me₃Sn adds to a carbon distal from ortho-substituted aryl groups and on the same carbon as electron-rich aromatic substituents. The alkenyllithium can be functionalized with a number of electrophiles, ranging from alkyl halides and carbonyl compounds to aryl iodides through Negishi coupling after transmetalation to zinc. The vinylstannane can undergo cross-coupling reactions or be converted into a vinyl iodide.