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Editor's Choice

This week the ChemInform editors have been strongly impressed by the following remarkable study:

Carbazole derivatives

R 0150

DOI: 10.1002/chin.201422129

22- 129

Rhodium-Catalyzed Tandem Annulation and [5 + 1] Cycloaddition: 3-Hydroxy-1,4-enyne as the 5-Carbon Component. — A variety of substituted carbazoles and dibenzofuran (XIV) are efficiently prepared via a Rh-catalyzed tandem annulation/ [5 + 1]-cycloaddition sequence using 3-hydroxy-1,4-enynes as a new 5-carbon component in the cycloaddition step. — (LI, X.; SONG, W.; TANG*, W.; J. Am. Chem. Soc. 135 (2013) 45, 16797-16800, http://dx.doi.org/10.1021/ja408829y; Sch. Pharm., Univ. Wis., Madison, WI 53705, USA; Eng.) — U. Scheffler

A): Rh₂Cl₂(CO)₄ (cat.), 60°C

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Me C OH HN Boc IX
$$X$$
 75%

H2C OH HN Boc A), DCE HO Boc Boc IX X 75%

1 atm (II)
20 mol% P(O-CH₂-CF₃)₃ (cat.)
A), THF HO R4 Boc c R4: -Ph 56%

XI XII XII

XIV 67%

XIII