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**Structure of Supramolecular Synthons Based on Propargylic Alcohol Derivatives.** Marilise A. Hyacinth,<sup>1</sup> Michal Sabat,<sup>1</sup> Ge Gao,<sup>1,2</sup> Lin Pu,<sup>1</sup> <sup>1</sup>Dept. of Chemistry, Univ. of Virginia, McCormick Rd., Charlottesville, VA 22904, <sup>2</sup>Dept. of Chemistry, Sichuan Univ., Chengdu, P.R.China.

Chiral secondary propargylic alcohols are versatile functional precursors in asymmetric synthesis. Recently, we have been exploring some applications of these precursors in supramolecular chemistry. The structure of several novel synthons based on propargylic alcohol derivatives has been established. Depending on the composition and chirality of the basic units, the synthons exist as hexameric assemblies stabilized by hydrogen bonds and  $\pi$ - $\pi$  stacking interactions, or as chain structures organized around the O-H...O hydrogen bonds. The significance of the synthons in chiral recognition and discrimination will be discussed.

