S. REGATI, Y. HE, M. THIMMAIAH, P. LI, S. XIANG, B. CHEN,* J. C.-G. ZHAO*
 (UNIVERSITY OF TEXAS AT SAN ANTONIO, USA AND FUJIAN NORMAL UNIVERSITY,
 FUZHOU, P. R. OF CHINA)
 Enantioselective Ring-Opening of *meso*-Epoxides by Aromatic Amines Catalyzed by a Homochiral Metal-Organic Framework
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Asymmetric Ring-Opening of *meso*-Epoxides with a Chiral Metal-Organic Framework

Typical results:

Significance: A chiral MOF (**UTSA-32**) was prepared from (*S*)-4,4'-dibromo-6,6'-dichloro-2,2'-diethoxy-1,1'-binaphthyl in three steps (eq. 1). **UTSA-32** catalyzed the enantioselective ring opening of *meso*-epoxides with anilines to give the corresponding α -hydroxyamines in 69–95% yield with 12–89% ee (11 examples, eq. 2).

Comment: **UTSA-32** was characterized by single-crystal X-ray diffraction, PXRD, TGA, and BET analyses. Single-crystal X-ray diffraction analysis of **UTSA-32** revealed that the binuclear zinc clusters are bridged by the carboxylic groups of organic linker **L** to form a three-dimensional framework.

SYNFACTS Contributors: Yasuhiro Uozumi, Takao Osako
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