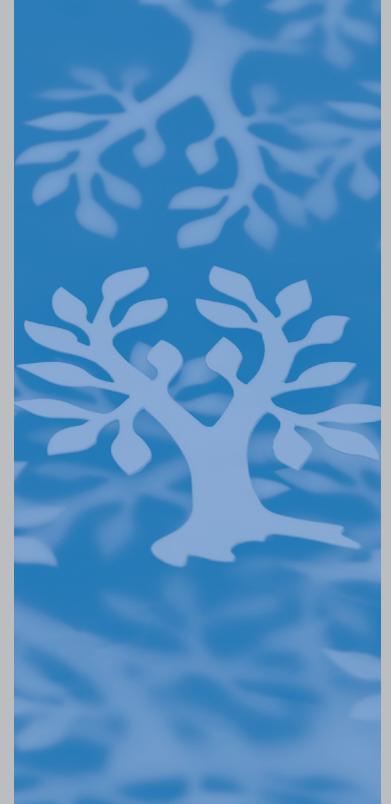
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# SYNFACTS Highlights in Current Synthetic Organic Chemistry

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#### Category

Metal-Mediated Synthesis

#### Key words

enantiospecificity phenol boronic esters coupling C. M. WILSON, V. GANESH, A. NOBLE, V. K. AGGARWAL\* (UNIVERSITY OF BRISTOL, UK) Enantiospecific sp<sup>2</sup>–sp<sup>3</sup> Coupling of *ortho*- and *para*-Phenols with Secondary and Tertiary Boronic Esters *Angew. Chem. Int. Ed.* **2017**, *56*, 16318–16322.

## **Enantiospecific Coupling of Phenols with Boronic Esters**

#### Coupling of para-bromphenols:

#### Coupling of ortho-bromphenols:

#### Selected examples:

**Significance:** The authors report an enantiospecific coupling of *ortho-* and *para-*phenols with secondary and tertiary boronic esters. For *para-*phenols, reaction with Ph<sub>3</sub>BiF<sub>2</sub> or Martin's sulfurane led to the product, whereas for *ortho-*phenols initial incorporation of a benzotriazole on the phenol oxygen was necessary.

**Comment:** The utility of the methodology was demonstrated by application to the synthesis of the broad spectrum antibacterial natural product (–)-4-(1,5-dimethylhex-4-enyl)-2-methyl phenol in good yield and with high enantioselectivity.

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