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Synthesis of heteroarylated ketones via bismuth(III) triflate-promoted regioselective 1,4- and 1,6-additions of electron-rich heteroarenes to cyclic enones and dienones

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PII: S0040-4020(18)30370-3

DOI: 10.1016/j.tet.2018.04.002

Reference: TET 29417

To appear in: Tetrahedron

Received Date: 15 January 2018

Revised Date: 2 April 2018 Accepted Date: 3 April 2018

Please cite this article as: Metz TL, Leng M, Evans J, Stanley LM, Synthesis of heteroarylated ketones via bismuth(III) triflate-promoted regioselective 1,4- and 1,6-additions of electron-rich heteroarenes to cyclic enones and dienones, *Tetrahedron* (2018), doi: 10.1016/j.tet.2018.04.002.

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Synthesis of heteroarylated ketones via bismuth(III) triflate-promoted regioselective 1,4- and 1,6-additions of electron-rich heteroarenes to cyclic enones and dienones

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heteroarene cat. Bi(OTf)₃

$$R^1 = vinyl$$

$$R^5$$

$$R^1 = alkyl$$

$$R^3$$

$$R^4$$

$$R^3$$

$$R^4$$

$$R^4$$

$$R^5$$

$$R^4$$

$$R^5$$

$$R^4$$

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$$R^4$$

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