

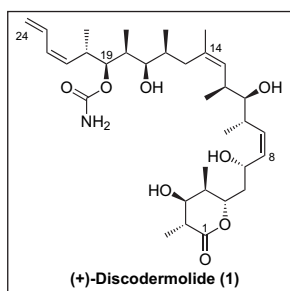
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REPORT

(+)-Discodermolide: total synthesis, construction of novel analogues, and biological evaluation

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Amos B. Smith, III* and B. Scott Freeze

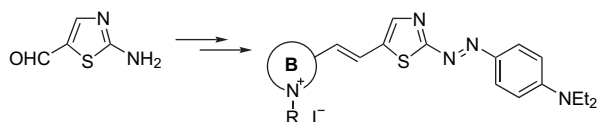


ARTICLES

Delocalized cationic azo dyes containing a thiazole moiety

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Maria A. Salvador, Lucinda V. Reis, Paulo Almeida, Paulo F. Santos*



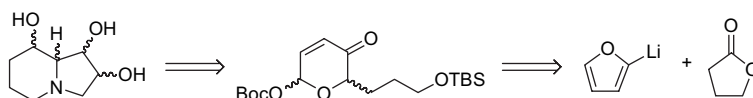
B = benzoazole or quinoline conjugated nucleus

Several new delocalized cationic azo dyes incorporating a bathochromic thiazole moiety have been prepared in moderate to good yields. All dyes display very strong absorption around 700 nm and have shown negative solvatochromic behaviour.

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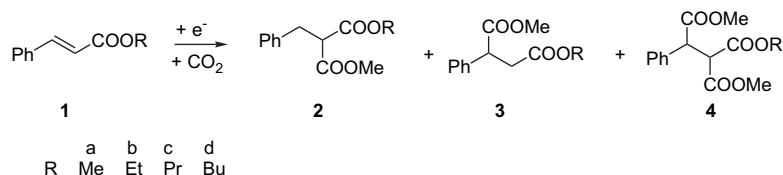
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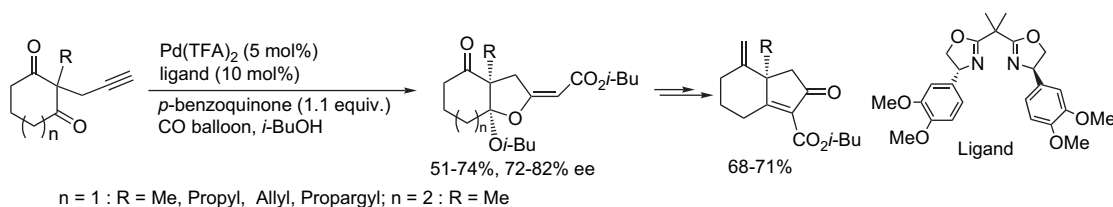
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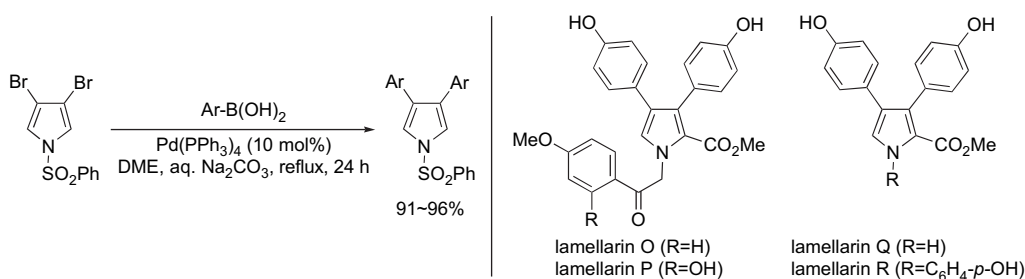
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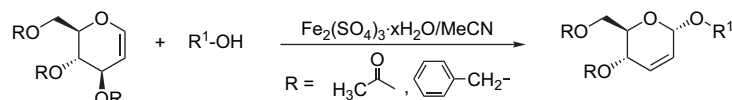
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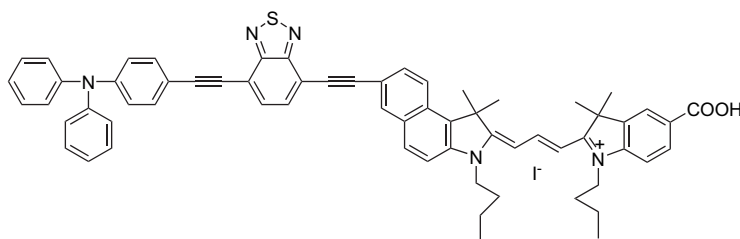
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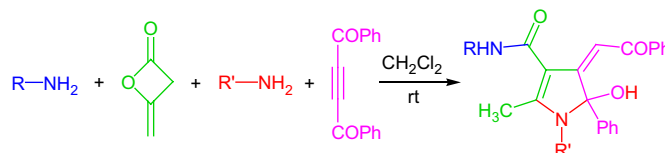
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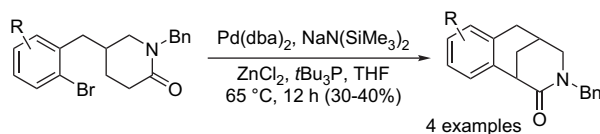
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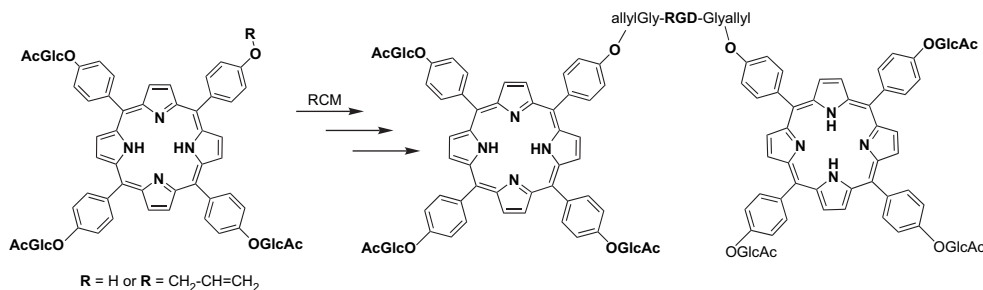
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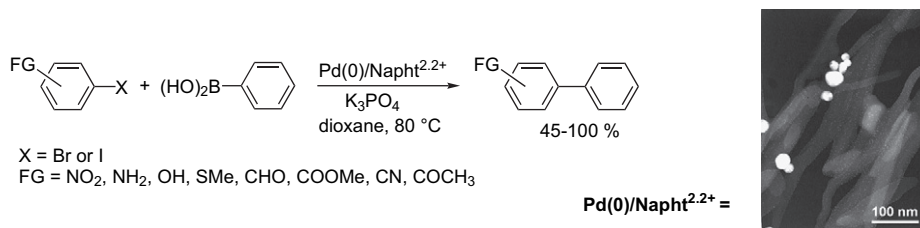
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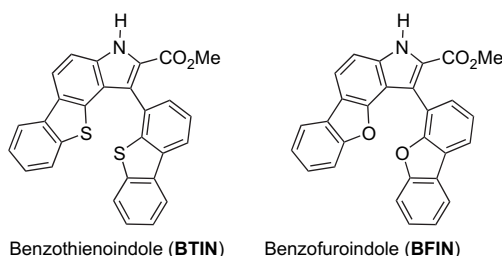
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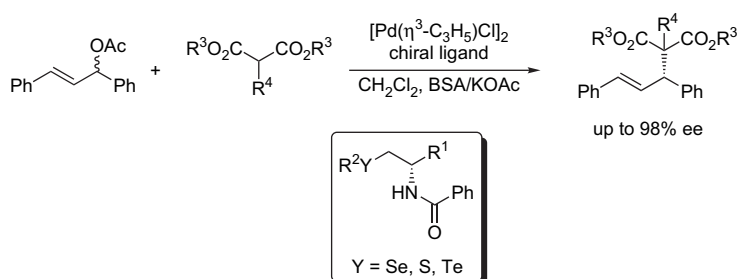
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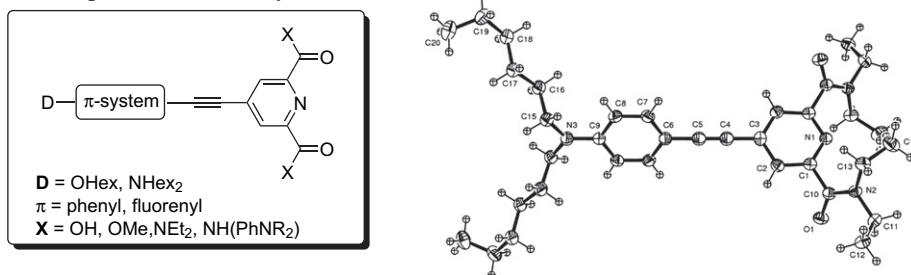
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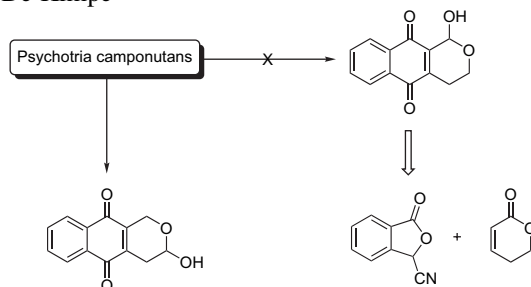
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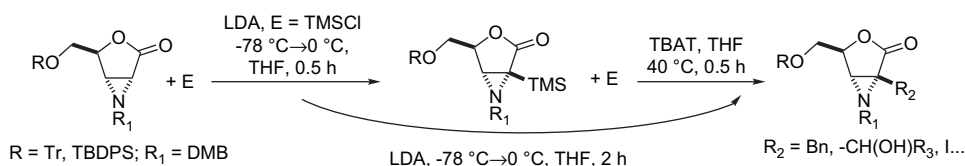
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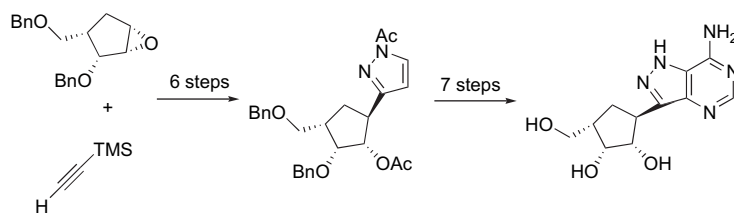
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*Corresponding author

+ Supplementary data available via ScienceDirect

COVER

Totally synthetic (+)-discodermolide (ca. 1 g) and the proposed solution and microtubule bound conformations, an architecturally novel antitumor agent isolated from the marine sponge, *Discodermia dissoluta*. For detailed accounts see: Smith, A. B., III; Kaufman, M. D.; Beauchamp, T. J.; LaMarche, M. J.; Arimoto, H. *Org. Lett.* **1999**, *1*, 1823–1826; Smith, A. B.; LaMarche, M. J.; Falcone-Hindley, M. *Org. Lett.* **2001**, *3*, 695–698; Xia, S.; Kenesky, C. S.; Rucker, P. V.; Smith, A. B., III; Orr, G. A.; Horwitz, S. B. *Biochemistry* **2006**, *45*, 11762–11775, respectively. *Tetrahedron* **2008**, *64*, 261–298.

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