



Tetrahedron Vol. 69, Issue 5, 2013

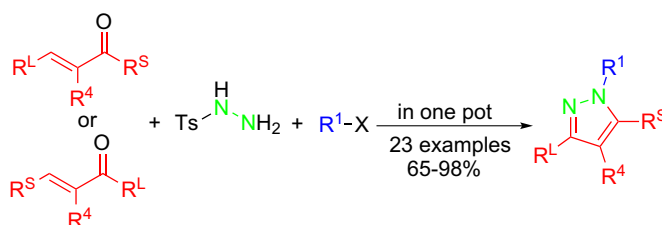
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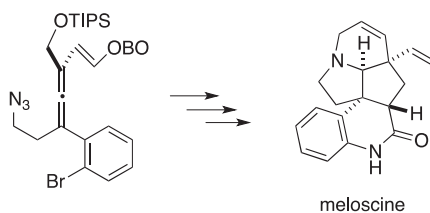
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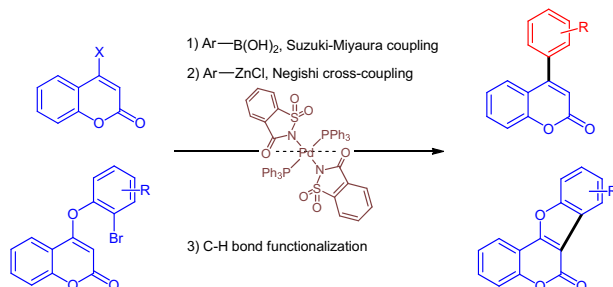
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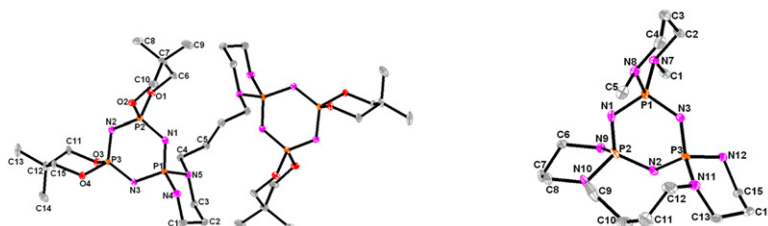
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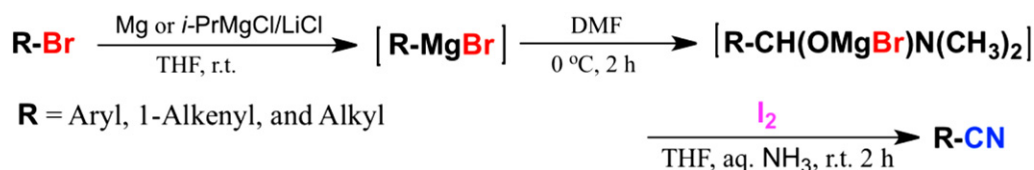


Spiro (**1a**), dispiro (**1b**, **2**, **3**), per-substituted spermine-bridged (**6–9**) and dispiroansa spermine (**10**) derivatives of cyclotriphosphazene were synthesized. The structures of the novel compounds (**1b**, **6–10**) have been characterized by elemental analysis, FTIR, mass spectrometry, X-ray (for **1b**, **2**, **8**, **10**), ¹H and ³¹P NMR spectroscopy. Newly synthesized compounds and their cytotoxic effect on cancer cell lines were investigated.

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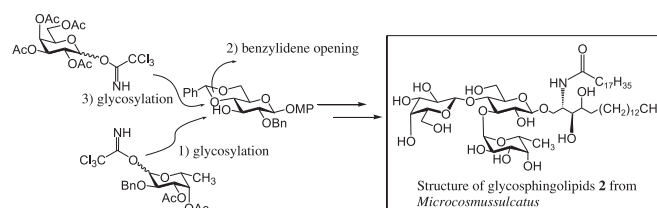
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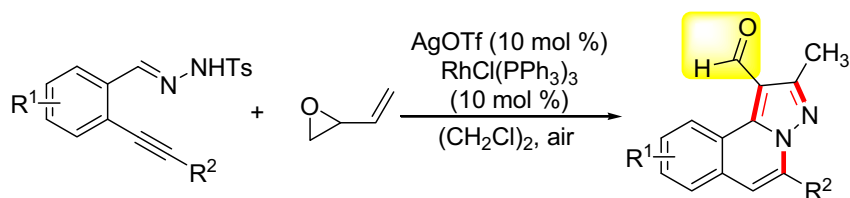
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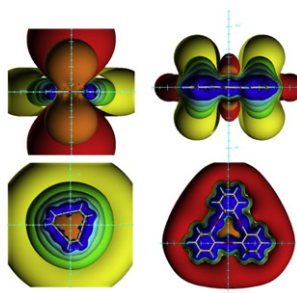
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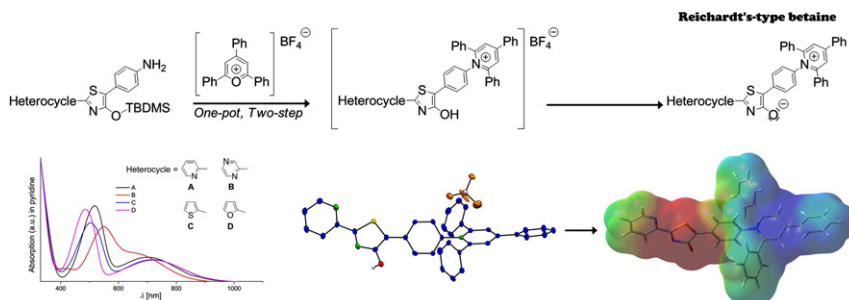
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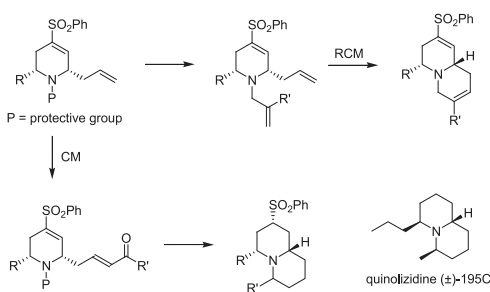
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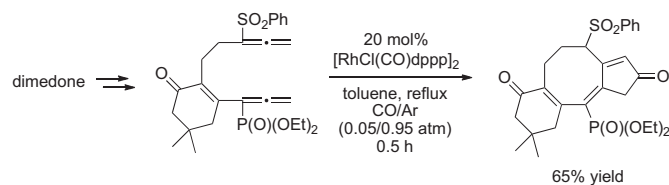
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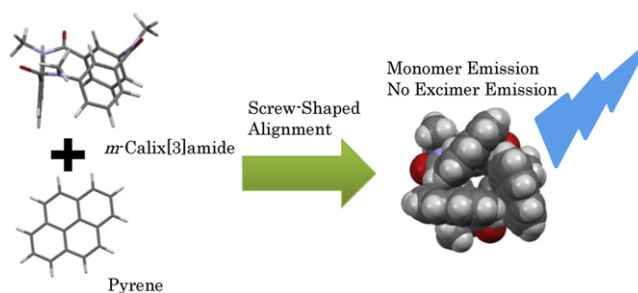
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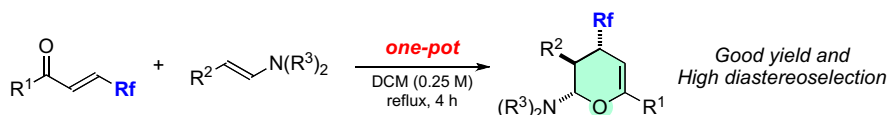
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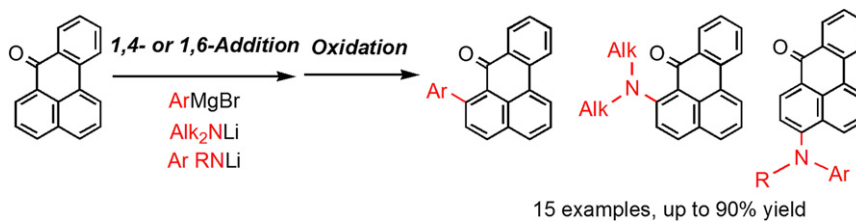
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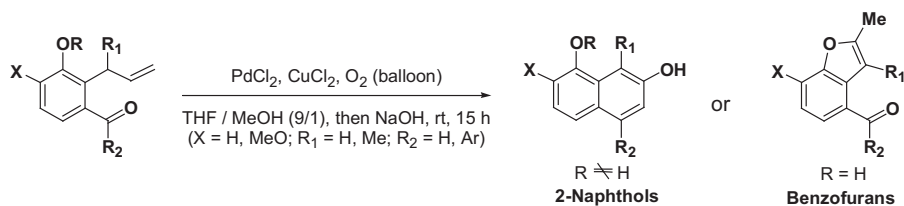
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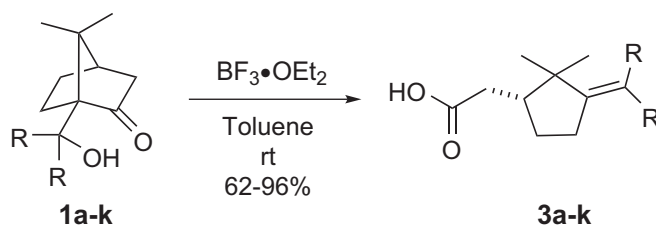
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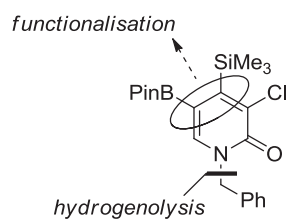
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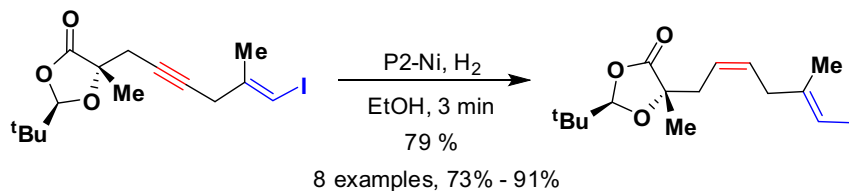
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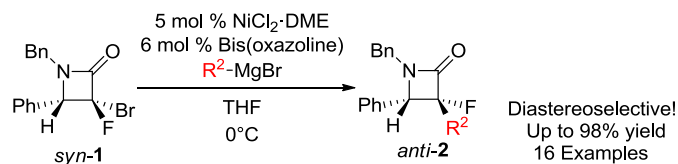
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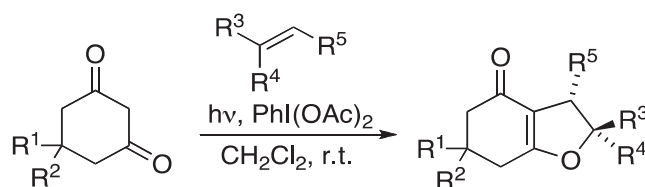
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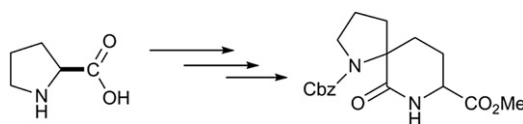
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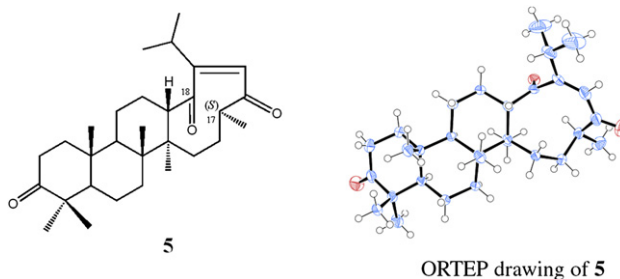
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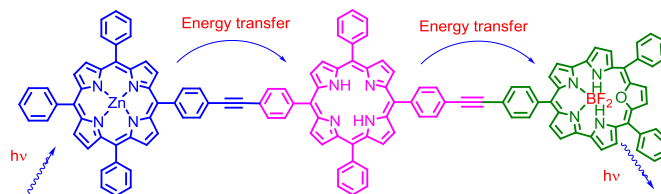
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Yogita Pareek, Mangalampalli Ravikanth*

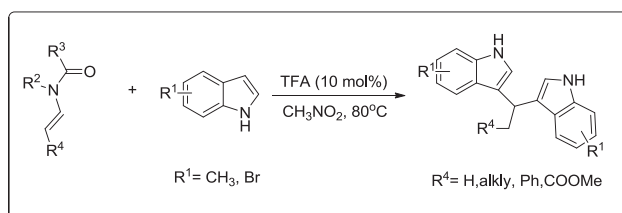


Two covalently linked diphenyl ethyne bridged unsymmetrical dyads containing porphyrin and BF₂-oxasmaragdyrin and Zn(II)porphyrin and BF₂-oxasmaragdyrin units and one covalently linked triad containing Zn(II)porphyrin, porphyrin and BF₂-oxasmaragdyrin units were synthesized and characterized using different spectroscopic techniques.

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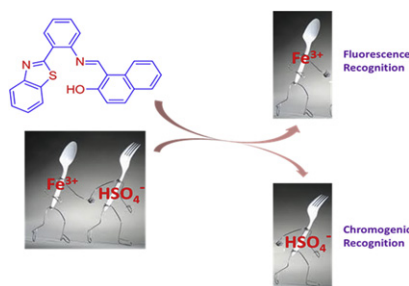
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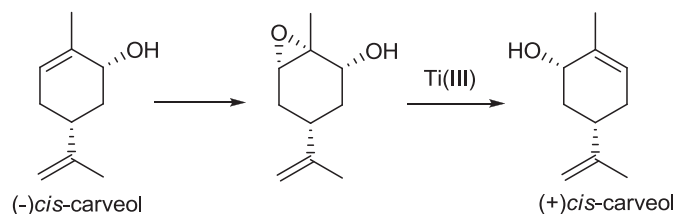
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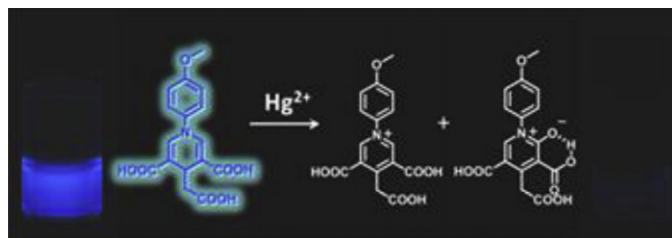
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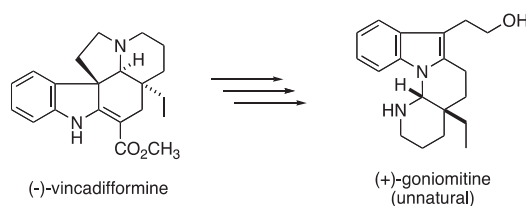
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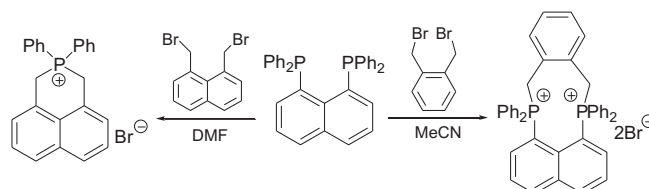
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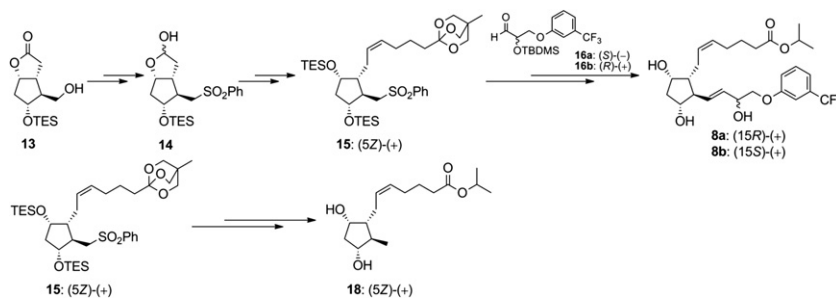
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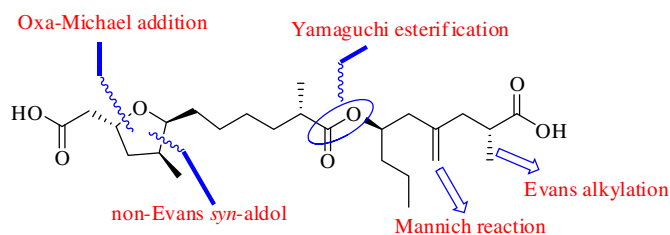
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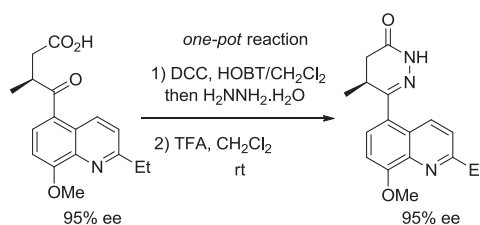
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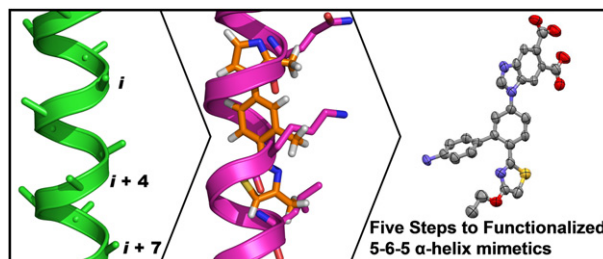
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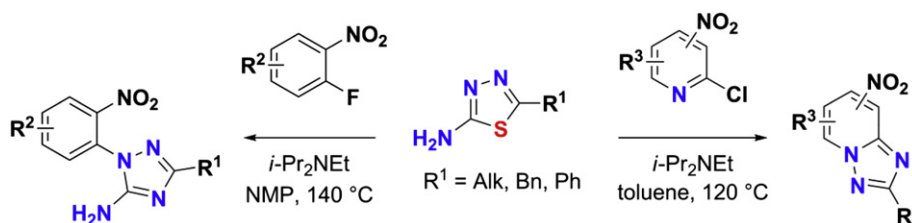
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**Direct access to 1-aryl-5-amino-1,2,4-triazoles and [1,2,4]triazolo[1,5-a]pyridines by two new single-step reactions from 1,3,4-thiadiazol-2-amines**

Oscar Mammoliti*, Evelyne M. Quinton, Kristof T.J. Loones, Anh Tho Nguyen, Johan Wouters, Guy Van Lommen

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*Corresponding author

 Supplementary data available via SciVerse ScienceDirect

COVER

The first biomimetic semisynthesis of both enantiomers of goniomitine has been accomplished in nine steps starting from (–)- and (+)- vincadifformine. As (–)-vincadifformine is readily available from (–)-tabersonine, the major alkaloid from seeds of *Voacanga africana* Stapf., our process thus constitutes an original access to unnatural (+)-goniomitine, which was only accessible by total synthesis so far. © 2012 G. Lewin, G. Bernadat, G. Aubert, T. Cresteil

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