

Vol. 54 · Issue 41 · 9 October 2013 · ISSN 0040-4039

Tetrahedron Letters

THE INTERNATIONAL JOURNAL FOR THE RAPID PUBLICATION OF ALL
PRELIMINARY COMMUNICATIONS IN ORGANIC CHEMISTRY

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Tetrahedron Letters Vol. 54, Issue 41, 2013

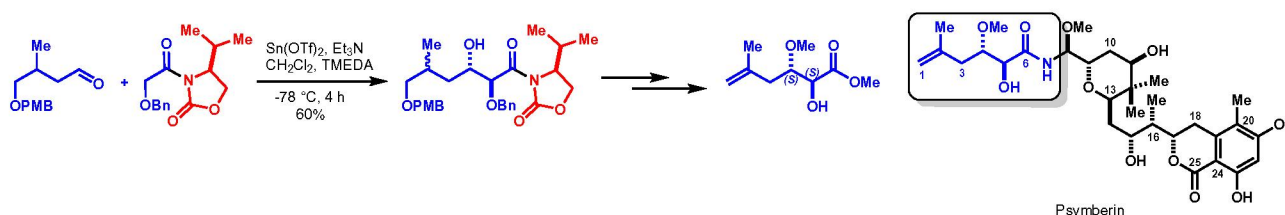
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Asymmetric synthesis of the C1–C6 portion of the psymberin using an Evans chiral auxiliary

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Ashutosh Pal, Zhenghong Peng, Paul T. Schuber Jr., Basvoju A. Bhanu Prasad, William G. Bornmann*

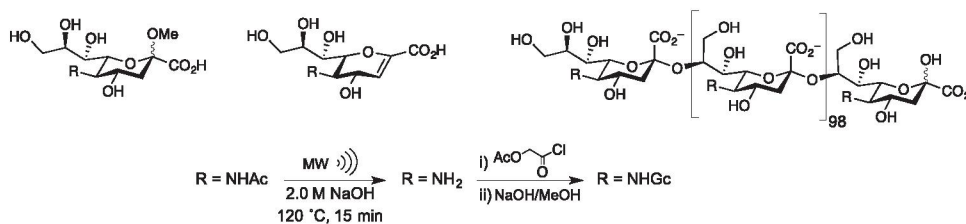


The C1–C6 region of the potent cytotoxic agent psymberin has been synthesized. The key transformations of the synthesis are an auxiliary-controlled addition of a Sn(II)-glycolate enolate to an aldehyde to yield the *anti*-aldol product and transforming the primary alcohol into a terminal olefin utilizing organoselenium chemistry.


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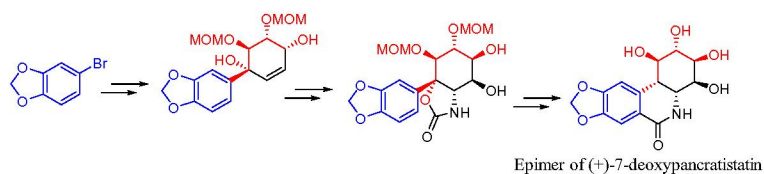
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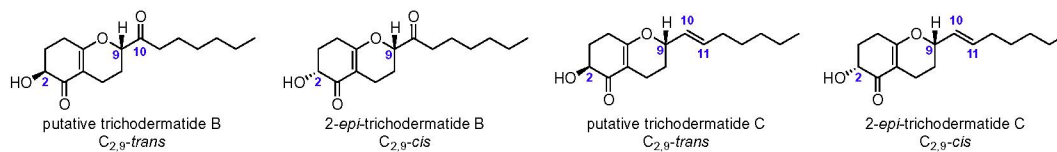
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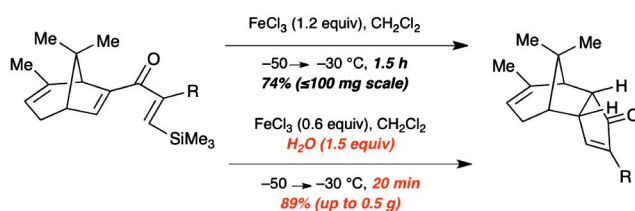
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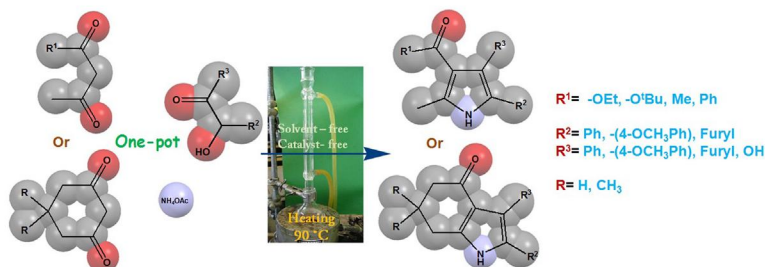
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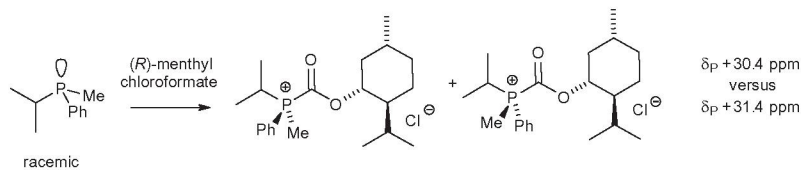


A facile method for the regioselective synthesis of tetrasubstituted pyrroles, from readily accessible 1,3-dicarbonyls, benzoin derivatives and ammonium acetate, has been developed. The one-pot three-component reactions were performed to afford tetrasubstituted pyrroles under solvent- and catalyst-free conditions.

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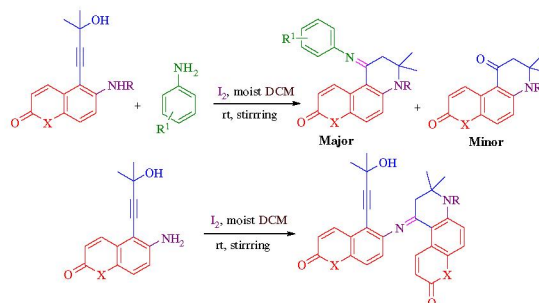
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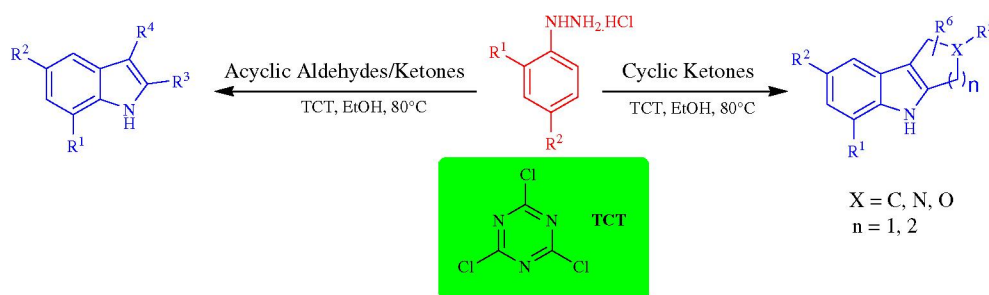
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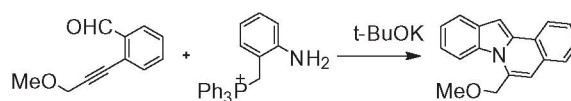
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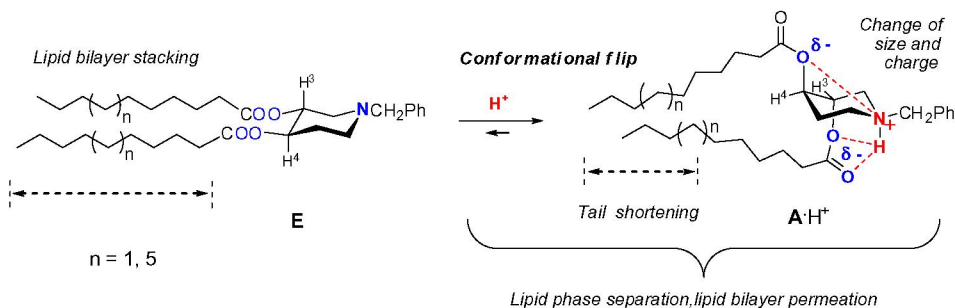
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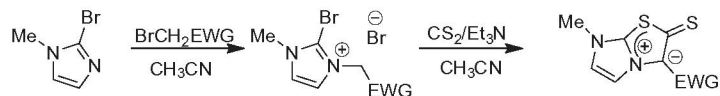
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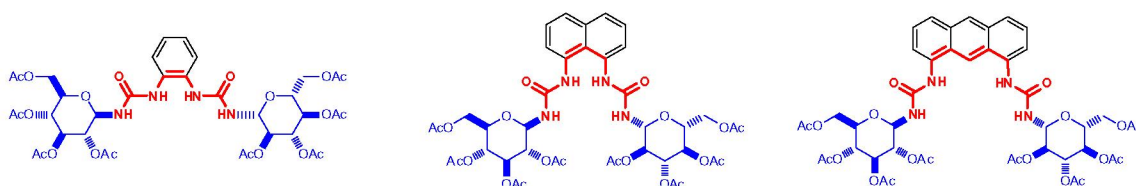
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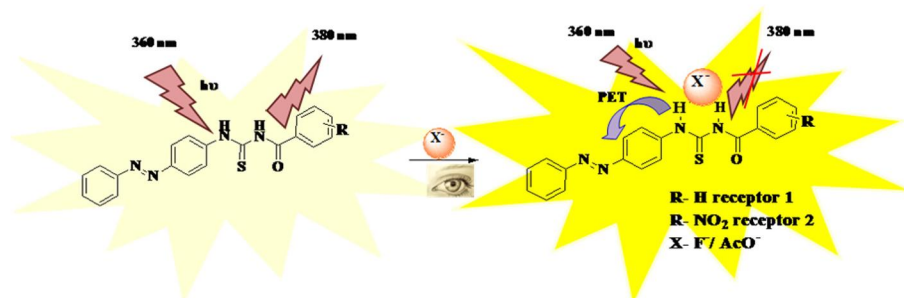
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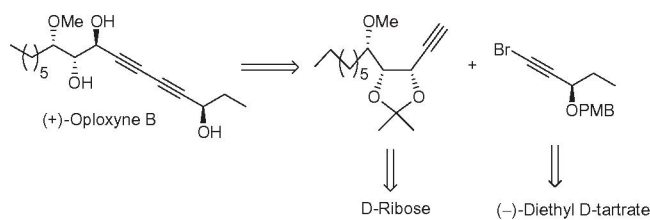
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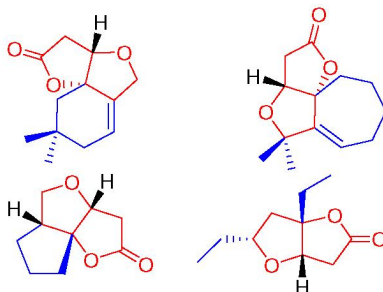
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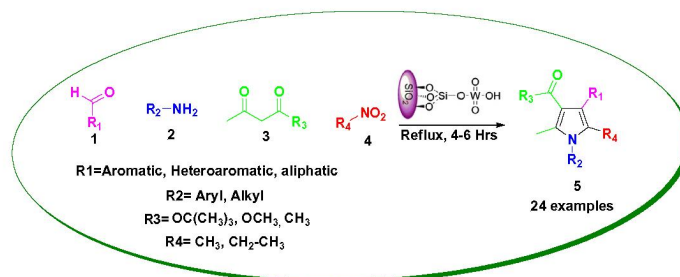
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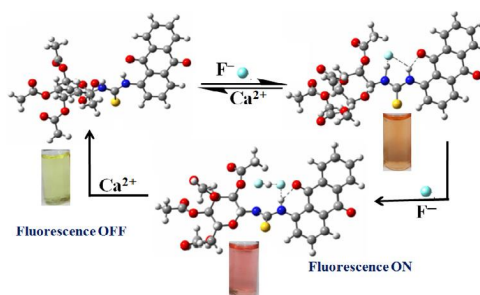
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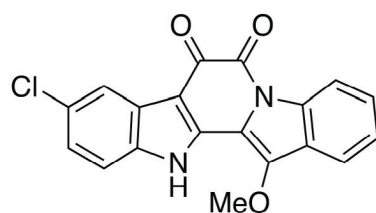
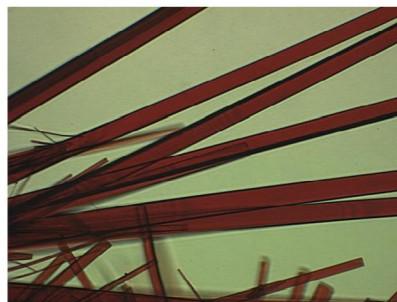
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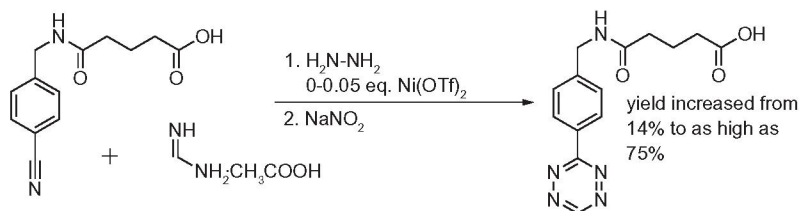
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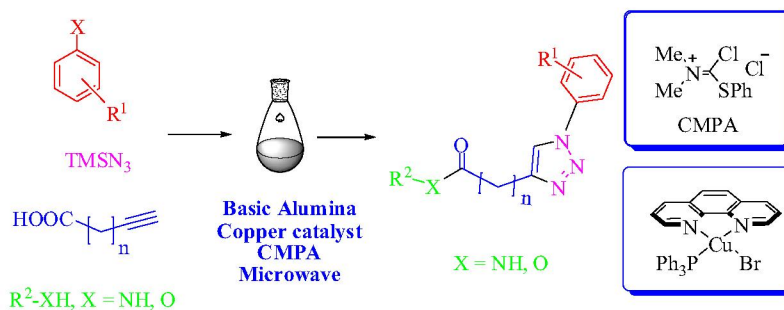
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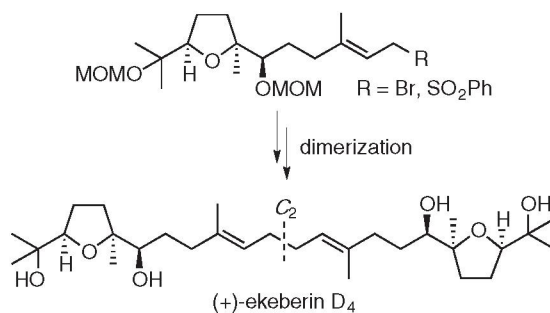
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+ Supplementary data available via ScienceDirect

Abstracted/indexed in: AGRICOLA, Beilstein, BIOSIS Previews, CAB Abstracts, Chemical Abstracts, Chemical Engineering and Biotechnology Abstracts, Current Biotechnology Abstracts, Current Contents: Life Sciences, Current Contents: Physical, Chemical and Earth Sciences, Current Contents Search, Derwent Drug File, Ei Compendex, EMBASE/Excerpta Medica, Medline, PASCAL, Research Alert, Science Citation Index, SciSearch. Also covered in the abstract and citation database Scopus[®]. Full text available on ScienceDirect[®]



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