

# Celebrating the 50th Anniversary of Tetrahedron 1957–2007

Guest editor: Stephen F. Martin

Chemistry and Biochemistry Department, The University of Texas, 1 University Station A5300, Austin, TX 78712-0165, USA

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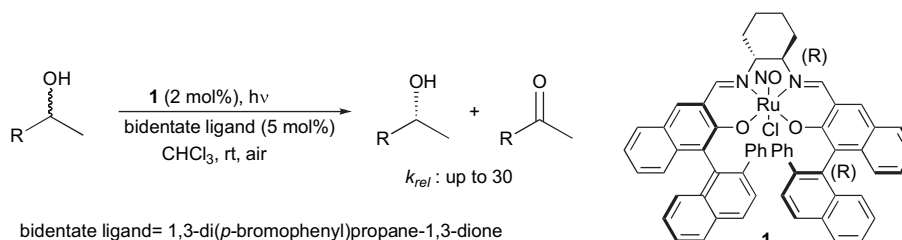
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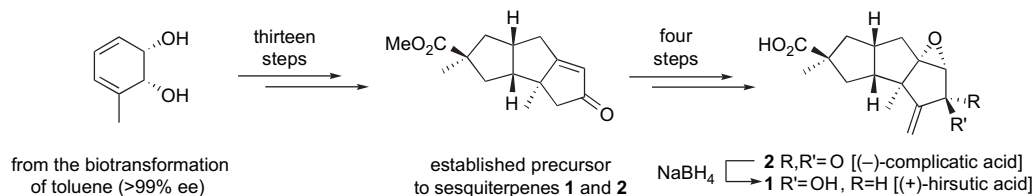
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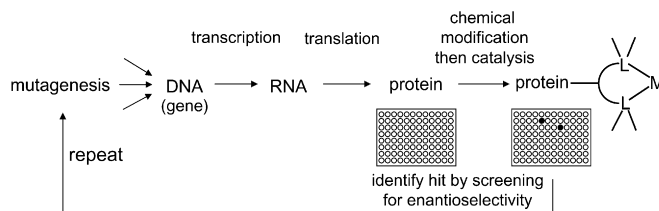
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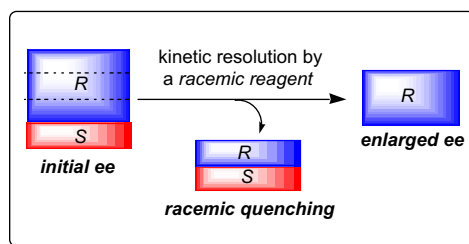
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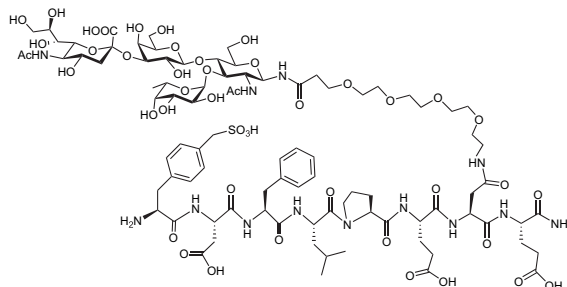
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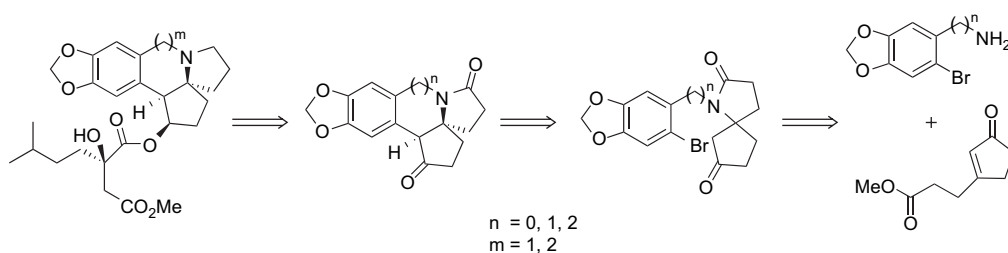
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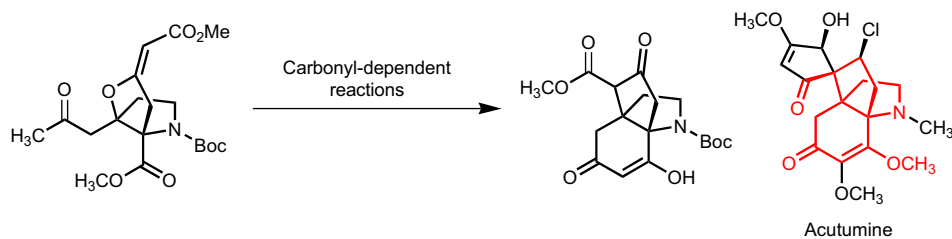
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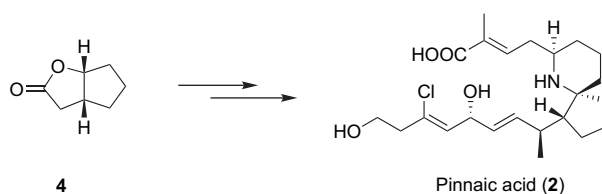
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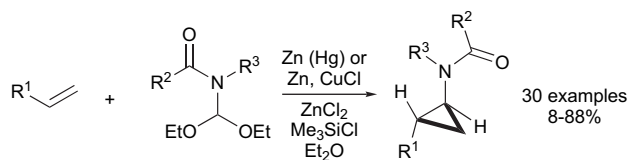
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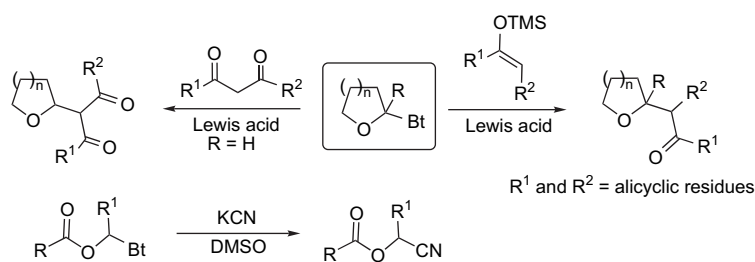
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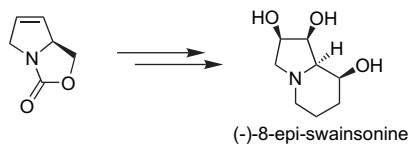
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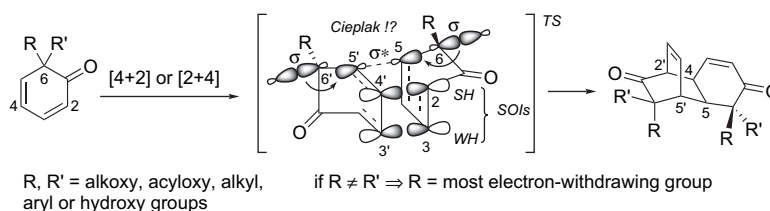
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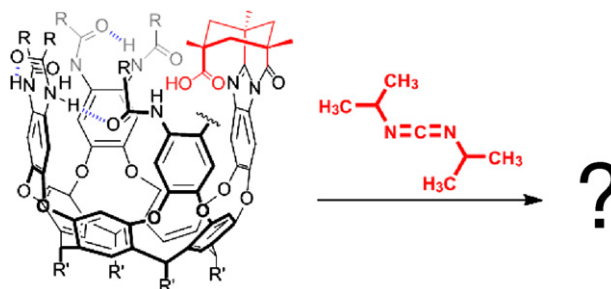
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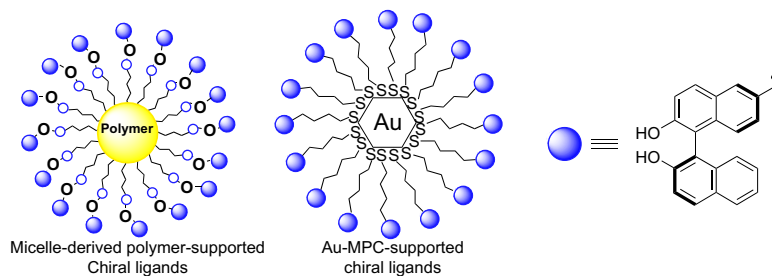
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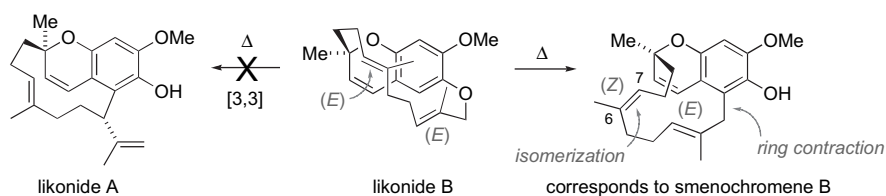
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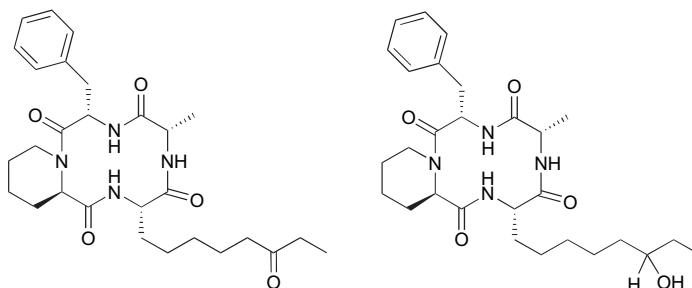
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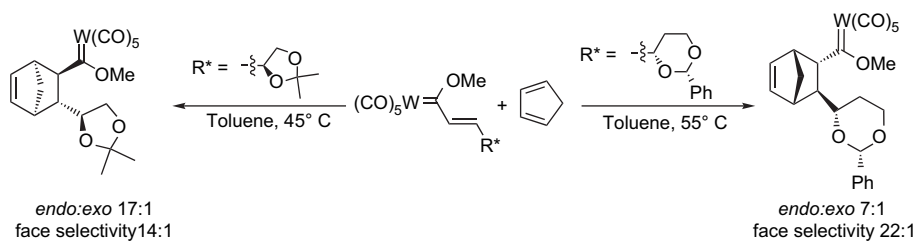
***Microsporium* cf. *gypseum* and the solid-phase synthesis of microsporin A**

Wenxin Gu, Mercedes Cueto, Paul R. Jensen, William Fenical\* and Richard B. Silverman\*

**[4 + 2] Cyclization reactions of chiral  $C_{\beta}$ -substituted Fischer alkenyl carbene complexes: efficient synthesis of enantiopure cyclohexenone and norbornene derivatives**

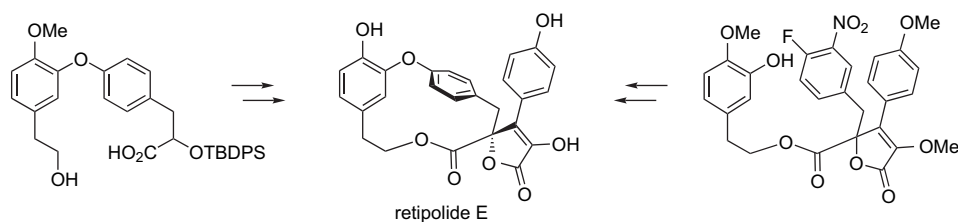
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José Barluenga,\* Aránzazu Gómez, Ana de Prado, Narendra Panday, Javier Santamaría and Miguel Tomás

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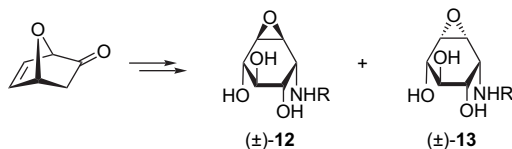
Andrea Ingerl, Karl Justus, Veronika Hellwig and Wolfgang Steglich\*



**Conduramine F-1 epoxides: synthesis and their glycosidase inhibitory activities**

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Robert Łysek, Sylvain Favre and Pierre Vogel\*

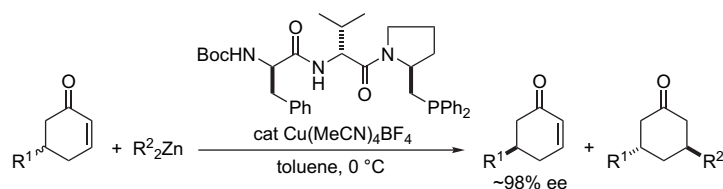


Compound  $(\pm)\text{-12}$  ( $R=4\text{-CF}_3\text{C}_6\text{H}_4\text{CH}_2$ ) is non-competitive inhibitor of  $\beta$ -xylosidase ( $K_i=2.2\ \mu\text{M}$ ) and  $(\pm)\text{-13}$  ( $R=4\text{-PhC}_6\text{H}_4\text{CH}_2$ ) is non-competitive inhibitor of  $\alpha$ -glucosidase ( $K_i=2.8\ \mu\text{M}$ ).

**Kinetic resolution of 5-substituted cycloalkenones by peptidic amidophosphane-copper-catalyzed asymmetric conjugate addition of dialkylzinc**

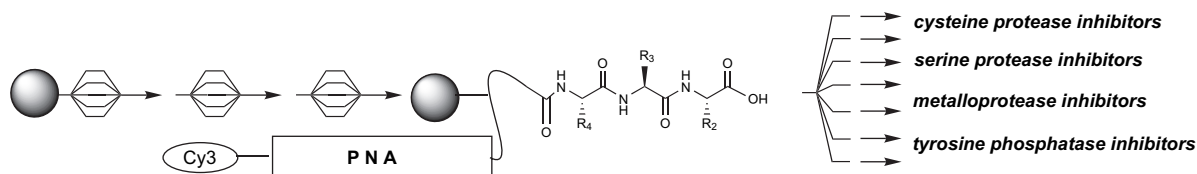
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Takahiro Soeta, Khalid Selim, Masami Kuriyama and Kiyoshi Tomioka\*

**Expanding the scope of PNA-encoded libraries: divergent synthesis of libraries targeting cysteine, serine and metallo-proteases as well as tyrosine phosphatases**

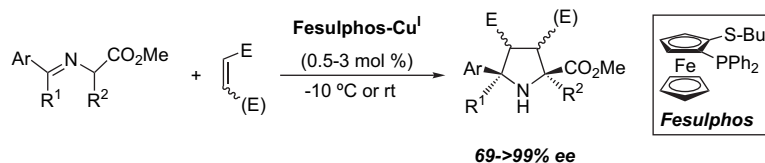
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François Debaene, Julien A. Da Silva, Zbigniew Pianowski, Fernando J. Duran and Nicolas Winssinger\*

**Cu<sup>I</sup>-Fesulphos complexes: efficient chiral catalysts for asymmetric 1,3-dipolar cycloaddition of azomethine ylides**

pp 6587–6602

Silvia Cabrera, Ramón Gómez Arrayás, Belén Martín-Matute, Fernando P. Cossío and Juan C. Carretero\*



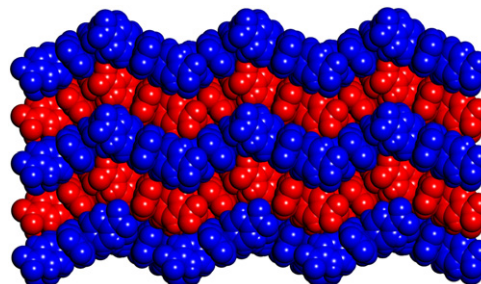
**dipolarophiles** : maleimides, dimethyl maleate, dimethyl fumarate, fumaronitrile, methyl acrylate, 2-butenolide, methacrolein or  $\beta$ -nitrostyrene

## The potential of intermolecular N···O interactions of nitro groups in crystal engineering, as revealed by structures of hexakis(4-nitrophenyl)benzene

pp 6603–6613

Eric Gagnon, Thierry Maris, Kenneth E. Maly and James D. Wuest\*

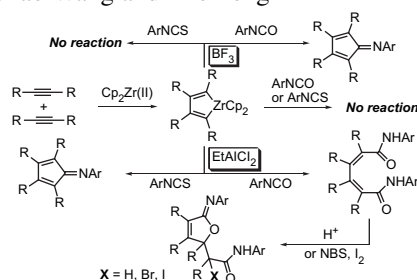
The behavior of hexakis(4-nitrophenyl)benzene confirms that intermolecular N···O interactions of NO<sub>2</sub> groups can help crystal engineers to position molecules with a useful degree of predictability, particularly when stronger interactions such as hydrogen bonds are absent, and when competition with other weak interactions is limited.



## Lewis acid-controlled reactions of zirconacyclopentadienes with isocyanates and isothiocyanates. One-pot three- or four-component synthesis of multiply substituted iminocyclopentadienes and butadiene-tethered 1,6-bisamides and electrophilic cyclization

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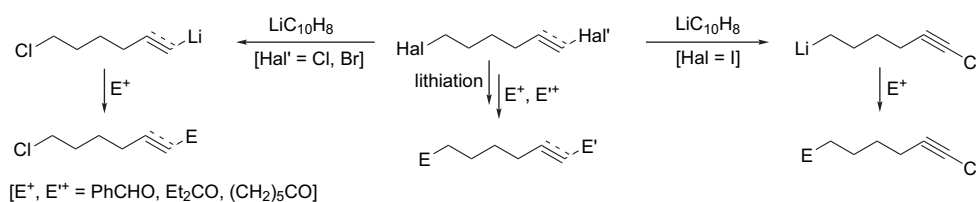
Qiaoshu Hu, Jiang Lu, Congyang Wang, Chao Wang and Zhenfeng Xi\*



## Selective lithiation of 1,6-dihalohept-1-enes and 1,6-dihalohept-1-yne

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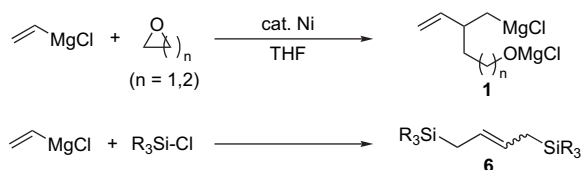
Abdeslam Abou, Francisco Foubelo and Miguel Yus\*



## Nickel-catalyzed dimerization coupling reactions of vinyl Grignard reagents with 3, 4-membered cyclic ethers and chlorosilanes

pp 6635–6641

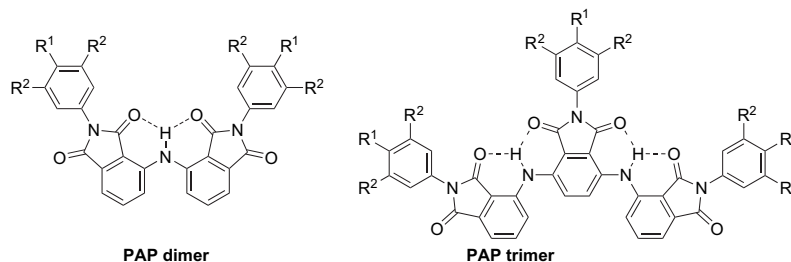
Yuuki Fujii, Jun Terao,\* Hiroyasu Watabe, Hiroyuki Watanabe and Nobuaki Kambe\*



**Toward poly(aminophthalimide), structures of dimers and trimers**

pp 6642–6653

Hiroyuki Katayama, Tom F. A. de Greef, Huub Kooijman, Anthony L. Spek, Jef A. J. M. Vekemans and E. W. Meijer\*

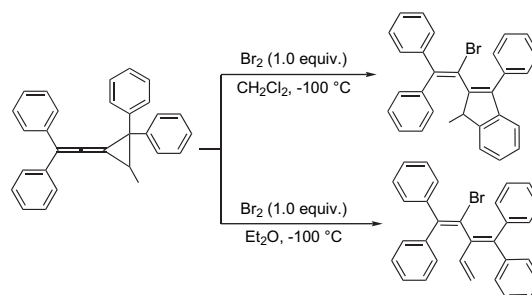


Poly(aminophthalimide) (PAP) dimers and trimers have been synthesized by palladium-catalyzed cross-coupling reactions of 3-aminophthalimides with 3-chloro- and 3,6-dichlorophthalimide, respectively.

**Reactions of diarylvinylicyclopropanes with bromine at –100 °C in dichloromethane and ether. A drastic solvent effect** pp 6654–6660

Min Shi\* and Wei Li

The reaction of diarylvinylicyclopropanes with bromine produces the corresponding brominated indene derivatives and conjugated triene derivatives in good to high yields in dichloromethane and ether, respectively, at –100 °C within 10 min.



\*Corresponding author

Supplementary data available via ScienceDirect

**COVER**

The cover graphic of this issue depicts the five different cover designs of *Tetrahedron*, since its launch in 1957.  
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