



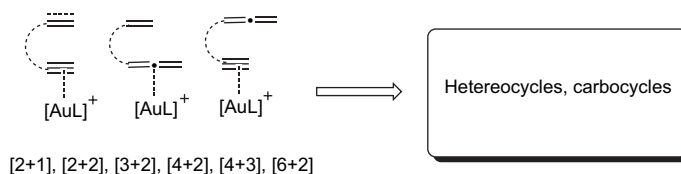
## Tetrahedron Vol. 64, No. 34, 2008

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## REPORT

Recent advances in syntheses of carbocycles and heterocycles via homogeneous gold catalysis. Part 2: Cyclizations and cycloadditions  
Hong C. Shen

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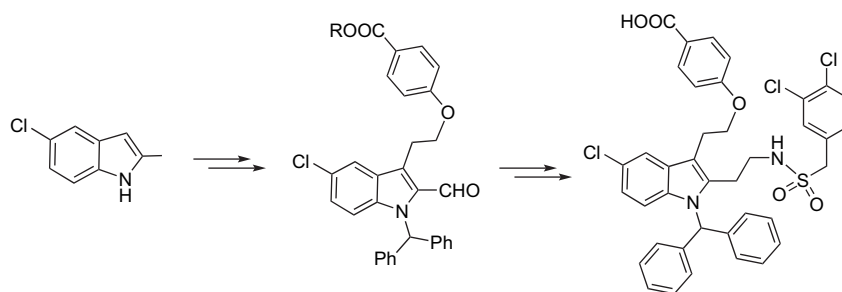


## ARTICLES

## An efficient synthesis of Ecopladib

Wei Li\*, Jianchang Li, Dianne DeVincentis, Tarek S. Mansour

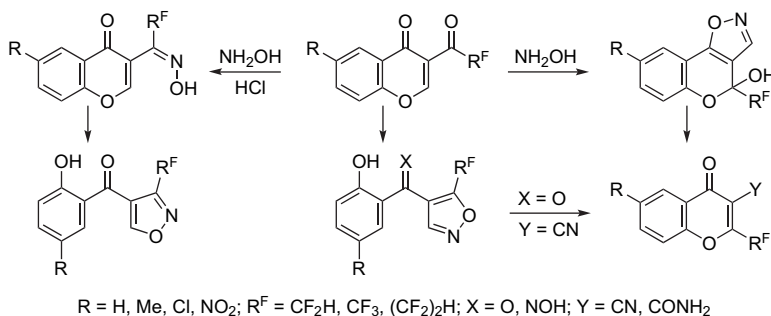
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### Reactions of 3-(polyfluoroacyl)chromones with hydroxylamine: synthesis of novel R<sup>F</sup>-containing isoxazole and chromone derivatives

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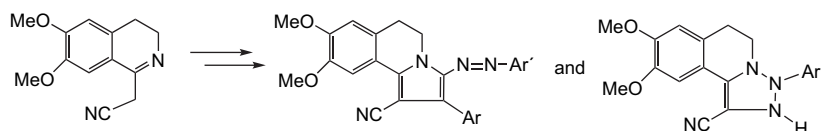
Vyacheslav Ya. Sosnovskikh\*, Vladimir S. Moshkin, Mikhail I. Kodess



### Synthesis of annulated dihydroisoquinoline heterocycles via their nitrogen ylides

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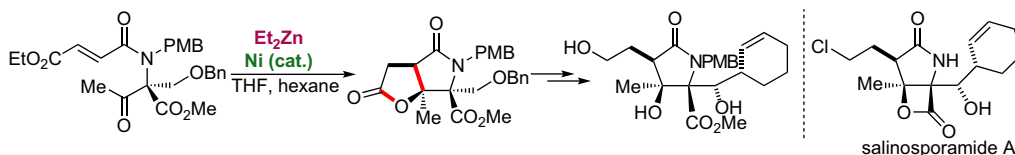
Tayseer A. Abdallah\*, Kamal M. Dawood



### Formal synthesis of salinosporamide A using a nickel-catalyzed reductive aldol cyclization–lactonization as a key step

pp 7896–7901

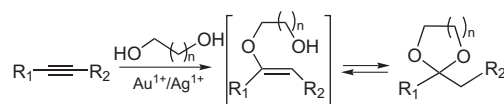
Isabel Villanueva Margalef, Leszek Rupnicki, Hon Wai Lam\*



### Regioselective transformation of alkynes into cyclic acetals and thioacetals with a gold(I) catalyst: comparison with Brønsted acid catalysts

pp 7902–7909

Laura L. Santos, Violeta R. Ruiz, Maria J. Sabater, Avelino Corma\*

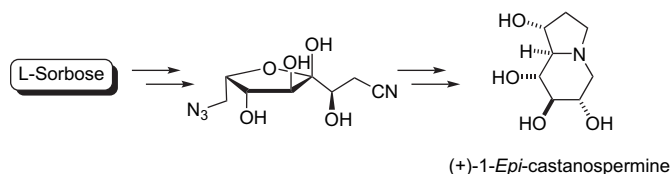


Gold(I)/AgBF<sub>4</sub> catalyzes the transformation of alkynes into cyclic acetals and thioacetals. The reaction appears to be general for a range of alkynes and diols or dithiols, which are efficiently transformed with high selectivities.

**Synthesis of (+)-1-*epi*-castanospermine from L-sorbose**

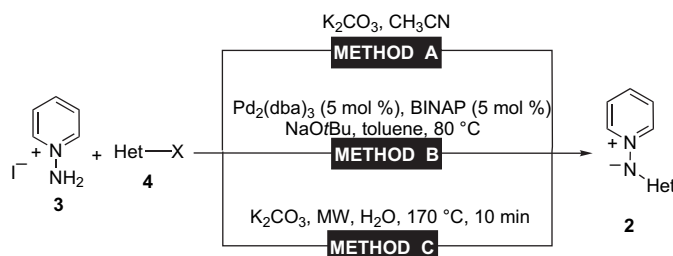
pp 7910–7913

Isidoro Izquierdo\*, Juan A. Tamayo\*, Miguel Rodríguez, Francisco Franco, Daniele Lo Re

**New approaches to the synthesis of pyridinium *N*-heteroarylaminides**

pp 7914–7919

Marta Córdoba, M. Luisa Izquierdo, Julio Alvarez-Builla\*

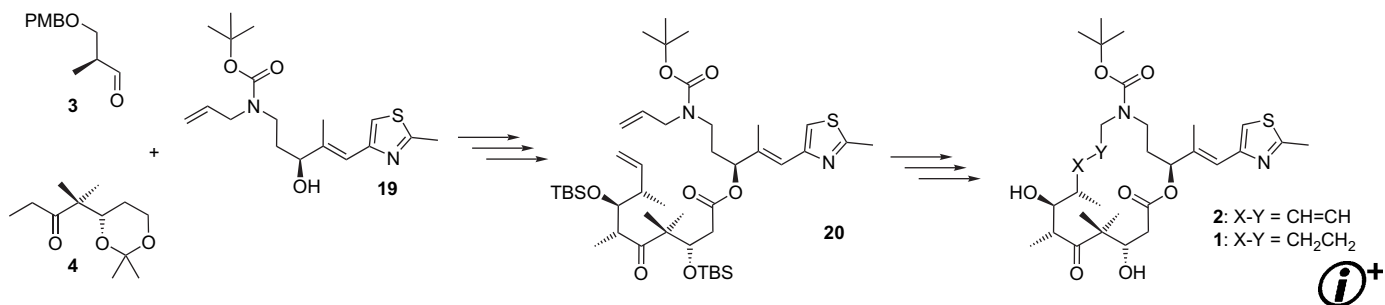


Different substituted pyridinium *N*-heteroarylaminides **2** have been prepared in one step from *N*-aminopyridinium iodide **3** and the corresponding heteroaryl halide **4** by alternative routes.

**Synthesis of 12-aza analogs of epothilones and (*E*)-9,10-dehydroepothilones**

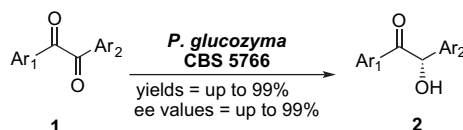
pp 7920–7928

Fabian Feyen, Andrea Jantsch, Kurt Hauenstein, Bernhard Pfeiffer, Karl-Heinz Altmann\*

**Enantioselective monoreduction of different 1,2-diaryl-1,2-diketones catalysed by lyophilised whole cells from *Pichia glucozyma***

pp 7929–7936

Pilar Hoyos, Giacomo Sansottera, María Fernández, Francesco Molinari\*, José Vicente Sinisterra, Andrés R. Alcántara\*

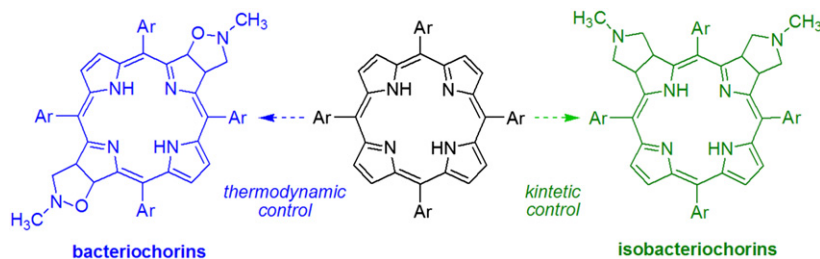


The reduction of different benzils (1,2-diaryl-ethanediones, **1**, symmetric or asymmetric) with lyophilised cells from *Pichia glucozyma* leads to the enantiopure benzoin **2** in good yields in short times with no traces of diol.

**Mechanistic insights on the site selectivity in successive 1,3-dipolar cycloadditions to meso-tetraarylporphyrins**

pp 7937–7943

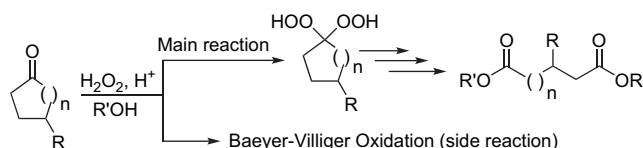
G. Jiménez-Osés\*, J. I. García, A.M.G. Silva, A.R.N. Santos, A.C. Tomé, M.G.P.M.S. Neves, J.A.S. Cavaleiro

**Oxidation of cycloalkanones with hydrogen peroxide: an alternative route to the Baeyer–Villiger reaction.**

pp 7944–7948

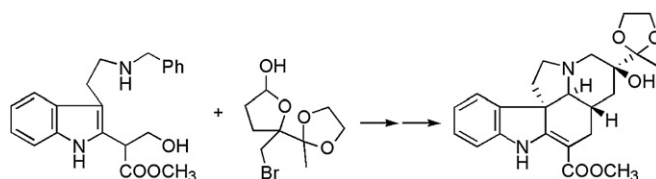
**Synthesis of dicarboxylic acid esters**

Alexander O. Terent'ev\*, Maxim M. Platonov, Alexey S. Kashin, Gennady I. Nikishin

**Synthesis of vinca alkaloids and related compounds. Part 110: A new synthetic method for the preparation of pandoline-type alkaloid-like molecules**

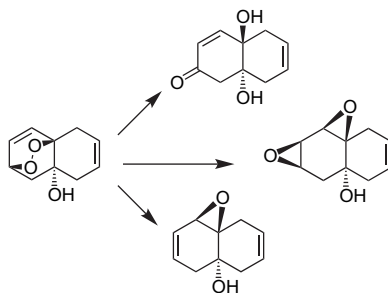
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Flórián Tóth, Julianna Oláh, György Kalaus\*, István Greiner, Áron Szöllősy, Ágnes Gömöry, László Hazai, Csaba Szántay

**Reactions of 9,10-dioxatricyclo[6.2.2.0<sup>1,6</sup>]dodeca-3,11-dien-6-yl hydroperoxide: synthesis of oxygenated naphthalene derivatives**

pp 7956–7959

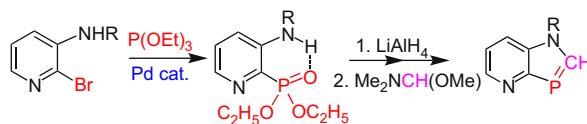
Nurhan Horasan Kishali\*, Yunus Kara\*



**3-Amino- and 3-acylamido-2-phosphonopyridines: synthesis by Pd-catalyzed P–C coupling, structure and conversion to pyrido[*b*]-annelated P=C–N heterocycles**

pp 7960–7967

Mohamed Shaker S. Adam, Olaf Kühn, Markus K. Kindermann, Joachim W. Heinicke\*, Peter G. Jones

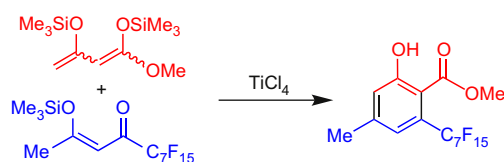


3-Amino- and 3-acylamido pyridine-2-phosphonic acid diethyl esters were synthesized by palladium catalyzed C–P cross-coupling of NH-functional 2-bromopyridines with triethyl phosphite and subsequently converted to novel pyrido-anellated P=C–N heterocycles.

**Regioselective synthesis of 4-alkyl- and 4-aryl-6-(perfluoroalkyl)salicylic acid derivatives by formal [3 + 3] cyclocondensation of 1,3-bis(silyloxy)-1,3-butadienes with 3-silyloxy-1-(perfluoroalkyl)prop-2-en-1-ones**

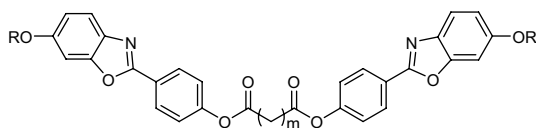
pp 7968–7976

Stefan Büttner, Mathias Lubbe, Helmut Reinke, Christine Fischer, Peter Langer\*

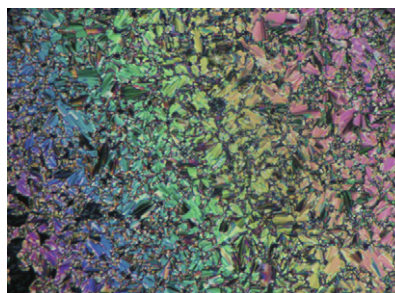
**Symmetrical dimer liquid crystals derived from benzoxazoles**

pp 7977–7985

Cheng-Chung Liao, Chung-Shu Wang, Hwo-Shuenn Shen, Chung K. Lai\*

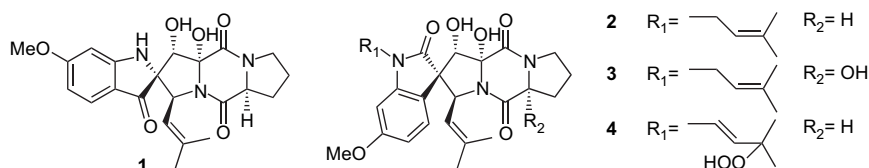


R = (CH<sub>2</sub>)<sub>n</sub>H  
**1a** m = 3; n = 6, 8, 10, 12, 14, 16  
**1b** m = 4; n = 12  
**1c** m = 5; n = 8, 12, 16  
**1d** m = 6; n = 12  
**1e** m = 7; n = 12  
**1f** m = 11; n = 12

**Seven new prenylated indole diketopiperazine alkaloids from holothurian-derived fungus *Aspergillus fumigatus***

pp 7986–7991

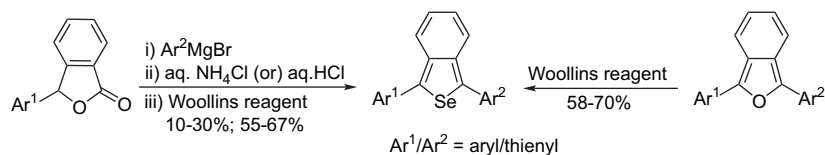
Fazuo Wang, Yuchun Fang, Tianjiao Zhu, Min Zhang, Aiqun Lin, Qianqun Gu\*, Weiming Zhu\*



### Synthesis and characterization of 1,3-diarylbenzo[*c*]selenophenes

pp 7992-7998

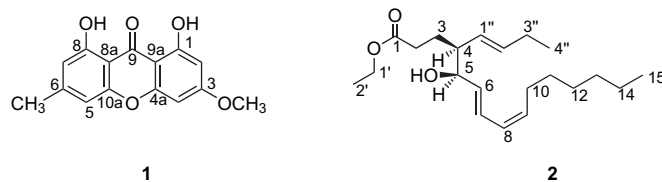
P. Amaladass, Natarajan Senthil Kumar, Arasambattu K. Mohanakrishnan\*



### A xanthone and a polyketide derivative from the leaves of *Cassia obtusifolia* (Leguminosae)

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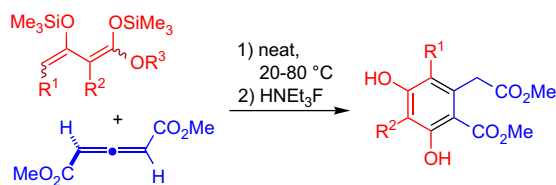
Sylvain Valère T. Sob, Hippolyte K. Wabo, Pierre Tane\*, Bonaventure T. Ngadjui\*, Dawei Ma



### Synthesis of 4-hydroxy- and 2,4-dihydroxy-homophthalates by [4 + 2] cycloaddition of 1,3-bis(silyloxy)-1,3-butadienes with dimethyl allene-1,3-dicarboxylate

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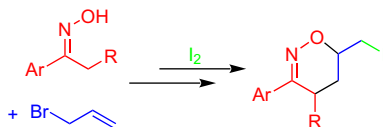
Ibrar Hussain, Mirza A. Yawer, Bettina Appel, Muhammad Sher, Ahmed Mahal, Alexander Villinger, Christine Fischer, Peter Langer\*



### Regioselective synthesis of 6-halomethyl-5,6-dihydro-4*H*-1,2-oxazines based on cyclizations of arylalkenyl-oximes

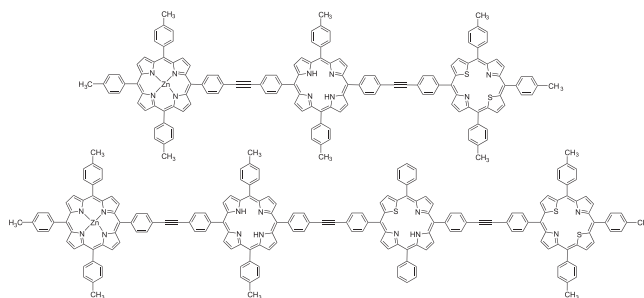
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Vahuni Karapetyan, Satenik Mkrtchyan, Tung T. Dang, Alexander Villinger, Helmut Reinke, Peter Langer\*



**Synthesis of covalently linked linear porphyrin triad and tetrad containing different porphyrin sub-units****pp 8016–8028**

S. Punidha, M. Ravikanth\*



Synthesis of diarylethylene bridged covalently linked porphyrin triad and tetrad containing three different porphyrin sub-units and their singlet–singlet energy transfer properties are reported.

\*Corresponding author

 Supplementary data available via ScienceDirect

Full text of this journal is available, on-line from **ScienceDirect**. Visit [www.sciencedirect.com](http://www.sciencedirect.com) for more information.

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