

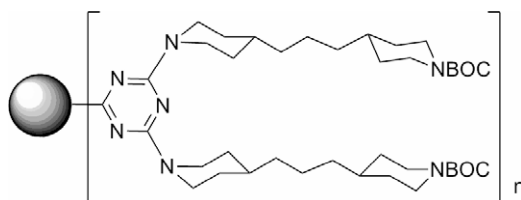
**Tetrahedron Letters Vol. 51, No. 13, 2010**

**Contents**

**COMMUNICATIONS**

**Divergent synthesis of triazine dendrimers using a trimethylene-dipiperidine linker that increases efficiency, simplifies analysis, and improves product solubility** pp 1631–1634

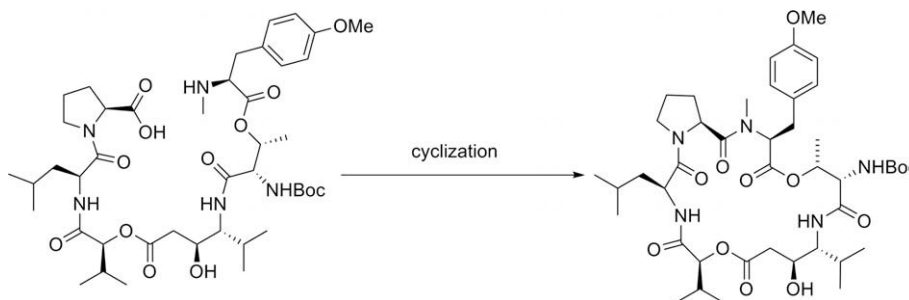
Meredith A. Mintzer, Lisa M. Perez, Eric E. Simanek\*



**An efficient synthesis of the tamandarin B macrocycle**

pp 1635–1638

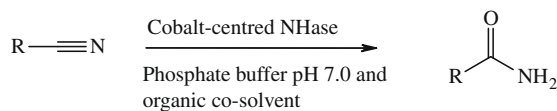
Kenneth M. Lassen, Jisun Lee, Madeleine M. Joullié\*



**Biotransformation of nitriles using the solvent-tolerant nitrile hydratase from *Rhodospseudomonas palustris* CGA009**

pp 1639–1641

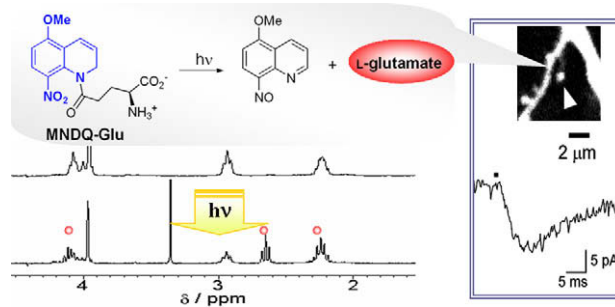
Gary W. Black, Thomas Gregson, Christopher B. McPake, Justin J. Perry\*, Meng Zhang



**1-Acyl-5-methoxy-8-nitro-1,2-dihydroquinoline: a biologically useful photolabile precursor of carboxylic acids**

pp 1642–1647

Naoko Obi, Atsuya Momotake, Yuya Kanemoto, Masanori Matsuzaki, Haruo Kasai, Tatsuo Arai\*

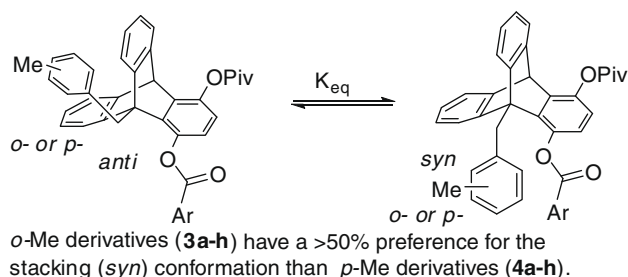


The synthesis, photochemistry, and biological application of 1-acyl-5-methoxy-8-nitro-1,2-dihydroquinoline (MNDQ)-caged carboxylic acid are described.

**Relative substituent position on the strength of  $\pi$ - $\pi$  stacking interactions**

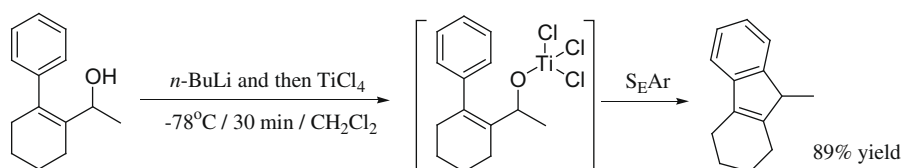
pp 1648–1650

Benjamin W. Gung\*, Bright U. Emenike, Celeste N. Alvarez, John Rakovan, Kristin Kirschbaum, Nirbhay Jain

The relative positions of the substituents on the aromatic rings strongly affect the strength of  $\pi$ - $\pi$  stacking interactions.**Intramolecular titanium-promoted deoxygenative cyclization to 9-substituted-1,2,3,4-tetrahydrofluorene skeleton**

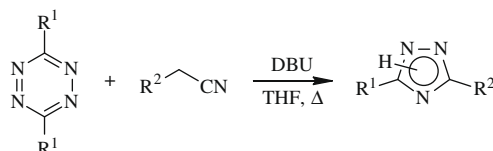
pp 1651–1653

Syun-ichi Kiyooka\*, Satoshi Matsumoto, Satoshi Umezu, Ryoji Fujiyama, Daisuke Kaneno

**A novel method for the synthesis of 3,5-disubstituted-(NH)-1,2,4-triazoles from 3,6-diaryl-1,2,4,5-tetrazines**

pp 1654–1656

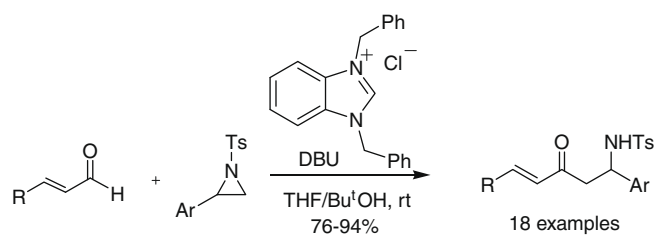
Makhluf J. Haddadin\*, Ebrahim H. Ghazvini Zadeh

The synthesis of 3,5-disubstituted-(NH)-1,2,4-triazoles from 3,6-diaryl-1,2,4,5-tetrazines and  $\alpha$ -substituted acetonitriles under basic conditions is described.

**NHC-catalyzed efficient synthesis of  $\beta$ '-amino enones via carbonyl umpolung reaction of enals with aziridines**

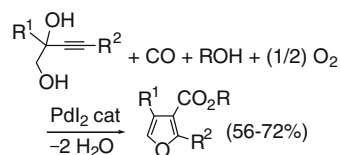
pp 1657–1662

Lal Dhar S. Yadav\*, Vijai K. Rai, Santosh Singh, Pankaj Singh

**Palladium-catalyzed oxidative heterocyclodehydration-alkoxycarbonylation of 3-yne-1,2-diols: a novel and expedient approach to furan-3-carboxylic esters**

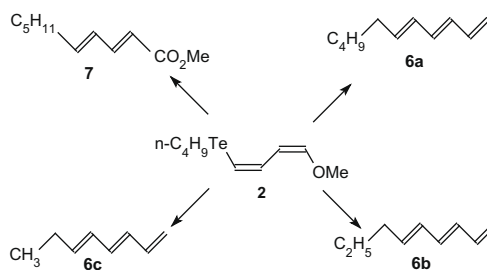
pp 1663–1665

Bartolo Gabriele\*, Lucia Veltri, Raffaella Mancuso, Pierluigi Plastina, Giuseppe Salerno, Mirco Costa

**Synthesis of naturally occurring diene and trienes by Te/Li exchange on (1Z,3Z)-butyltelluro-4-methoxy-1,3-butadiene**

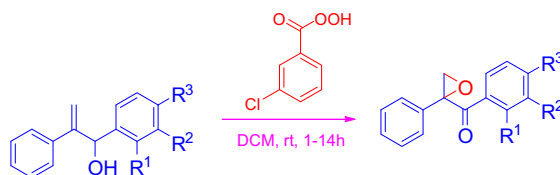
pp 1666–1670

Miguel J. Dabdoub\*, Vânia B. Dabdoub, Adriano C. M. Baroni, Gabriela R. Hurtado, Sandro L. Barbosa\*

**One-pot synthesis of  $\alpha,\beta$ -epoxy ketones by palladium-catalyzed epoxidation–oxidation of terminal allylic alcohols**

pp 1671–1673

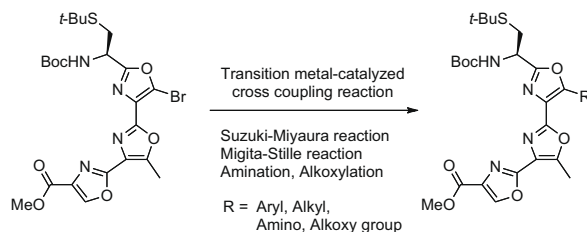
Fateh V. Singh, Jesus M. Pena, Hélio A. Stefani\*



**Derivatization of a tris-oxazole using Pd-catalyzed coupling reactions of a 5-bromooxazole moiety**

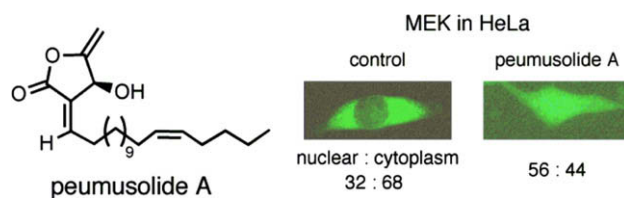
pp 1674–1677

Kazuaki Shibata, Masahito Yoshida, Takayuki Doi\*, Takashi Takahashi\*

**Peumusolide A, unprecedented NES non-antagonistic inhibitor for nuclear export of MEK**

pp 1678–1681

Satoru Tamura, Yuuhi Hattori, Masafumi Kaneko, Nobuhiro Shimizu, Susumu Tanimura, Michiaki Kohno, Nobutoshi Murakami\*

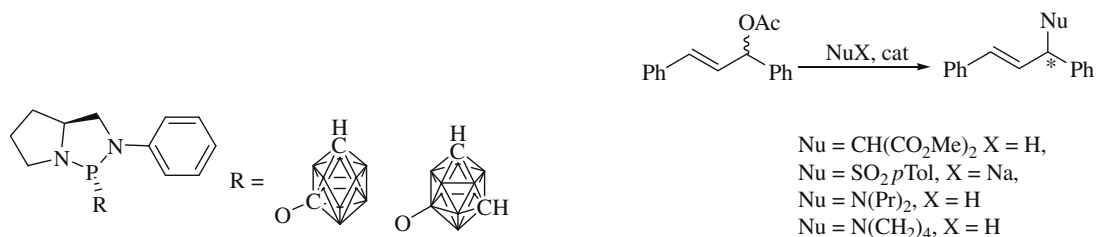


The absolute structure of peumusolide A, an unprecedented NES non-antagonistic inhibitor for nuclear export of MEK was established by spectroscopic and chemical means.

**Diamidophosphites with isomeric carborane fragments: a comparison of catalytic activity in asymmetric Pd-catalyzed allylic substitution reactions**

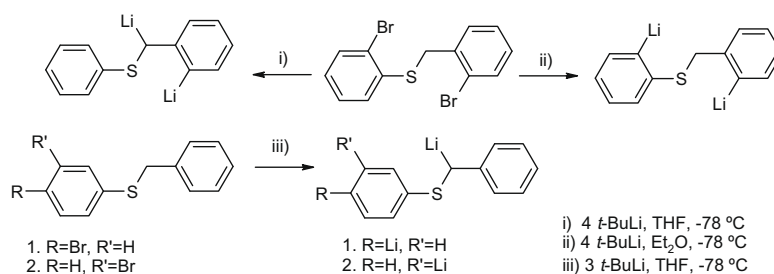
pp 1682–1684

Sergey E. Lyubimov\*, Vadim A. Davankov, Konstantin N. Gavrilov, Tatiana B. Grishina, Eugenie A. Rastorguev, Andrey A. Tyutyunov, Tatiana A. Verbitskaya, Valery N. Kalinin, Evamarie Hey-Hawkins

**Halogen–lithium exchange versus deprotonation: regioselective mono- and dilithiation of aryl benzyl sulfides. A simple approach to  $\alpha,2$ -dilithiotoluene equivalents**

pp 1685–1689

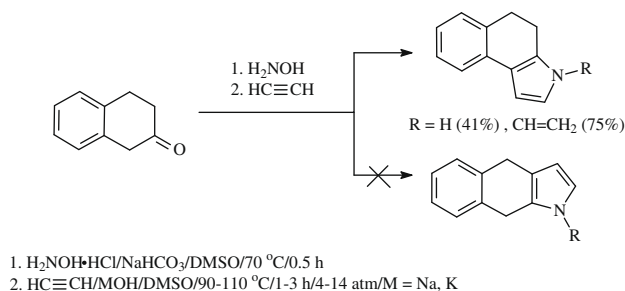
Tomasz Kliś\*, Janusz Serwatowski, Grzegorz Wesela-Bauman, Magdalena Zadrożna



### A three-component domino reaction of 2-tetralone, hydroxylamine and acetylene: a one-pot, highly regioselective synthesis of 4,5-dihydrobenz[e]indoles

pp 1690–1692

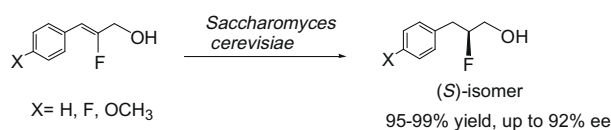
Alexander M. Vasil'tsov, Andrei V. Ivanov, Al'bina I. Mikhaleva, Boris A. Trofimov\*



### Highly enantioselective bioreduction of 2-fluorocinnamyl alcohols mediated by *Saccharomyces cerevisiae*

pp 1693–1695

Fan Luo, Ping Wang, Yuefa Gong\*



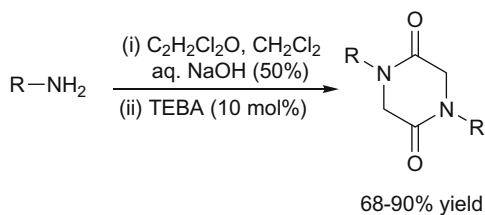
Biocatalytic reduction of 2-fluorocinnamyl alcohols mediated by *Saccharomyces cerevisiae* was investigated in phosphate buffer solutions. Product analysis clearly showed that (S)-2-fluoro-3-arylpropanols were afforded in high yields with up to 92% ee.



### From amines to diketopiperazines: a one-pot approach

pp 1696–1697

Elaine O'Reilly, Lara Pes, Francesca Paradisi\*

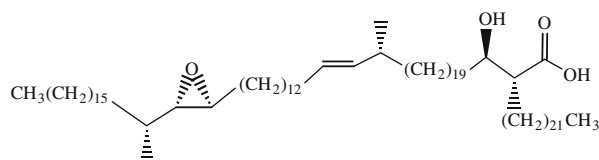


An efficient one-pot synthesis is described for the preparation of 1,4-disubstituted piperazine-2,5-diones starting from a suitable amine and chloroacetyl chloride in the presence of an aqueous base, under phase-transfer conditions.

### The first synthesis of epoxy-mycolic acids

pp 1698–1701

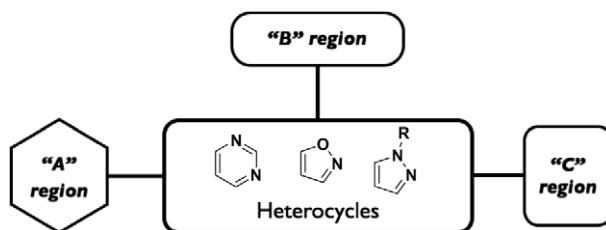
Dakhil Z. Al Kremawi, Juma'a R. Al Dulayymi, Mark S. Baird\*



**Solid phase synthesis of a molecular library of pyrimidines, pyrazoles, and isoxazoles with biological potential**

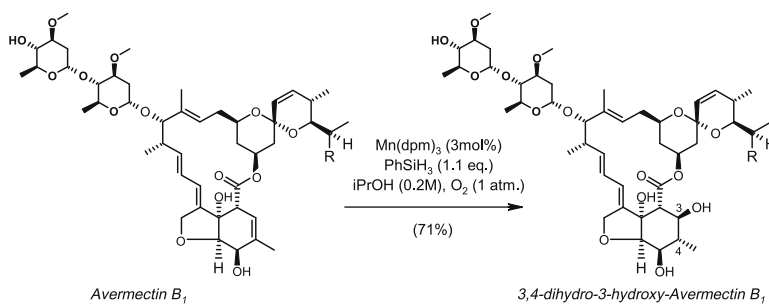
pp 1702–1705

Giovanni Pellegrino, Francesco Leonetti\*, Angelo Carotti, Orazio Nicolotti, Leonardo Pisani, Angela Stefanachi, Marco Catto

**Application of Mn(III)-catalysed olefin hydration reaction to the selective functionalisation of avermectin B<sub>1</sub>**

pp 1706–1709

Jérôme Cassayre\*, Tammo Winkler, Thomas Pitterna, Laura Quaranta

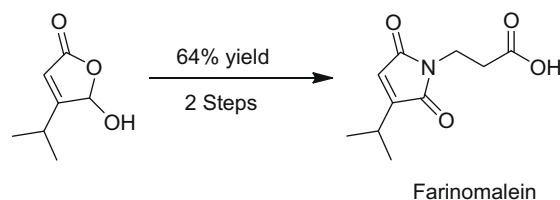


New avermectin derivatives were prepared by Mn(III)-catalysed hydration reaction of different substrates.

**Synthesis of farinomalein**

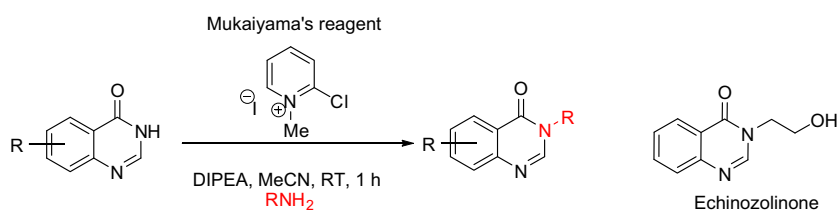
pp 1710–1712

William H. Miles\*, Ming Yan

**Mukaiyama's reagent promoted C–N bond formation: a new method to synthesize 3-alkylquinazolin-4-ones**

pp 1713–1716

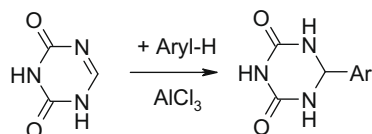
Puminun Punthasee, Avassaya Vanitcha, Sumrit Wacharasindhu\*



**The direct arylation of 1,3,5-triazin-2,4(1H,3H)-dione**

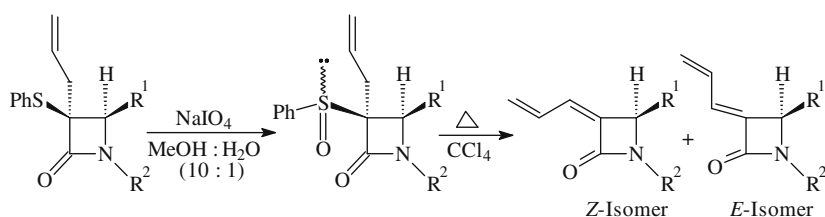
pp 1717–1718

Ilya N. Egorov\*, Vladimir L. Rusinov, Oleg N. Chupakhin

**Facile synthesis of (Z)- and (E)-3-allylidene-β-lactams via thermal β-elimination of trans-3-allyl-3-sulfinyl-β-lactams**

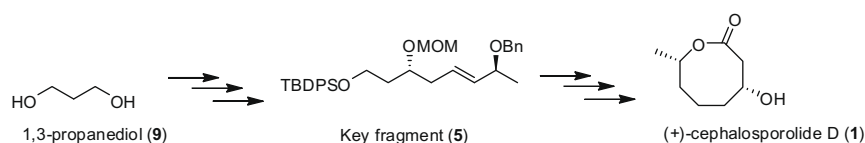
pp 1719–1722

Shamsher S. Bari\*, Renu Arora, Aman Bhalla, Paloth Venugopalan

**Stereoselective synthesis (+)-cephalosporolide D**

pp 1723–1726

G. Venkateswar Reddy, R. Sateesh Chandra Kumar, Eppakayala Sreedhar, K. Suresh Babu, J. Madhusudana Rao\*

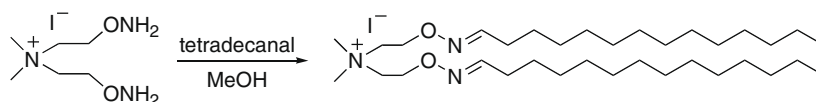


A simple and efficient stereoselective synthesis of (+)-cephalosporolide D is described.

**Nucleophilic cationization reagents**

pp 1727–1729

Souvik Biswas, Xuan Huang, Wesley R. Badger, Michael H. Nantz\*



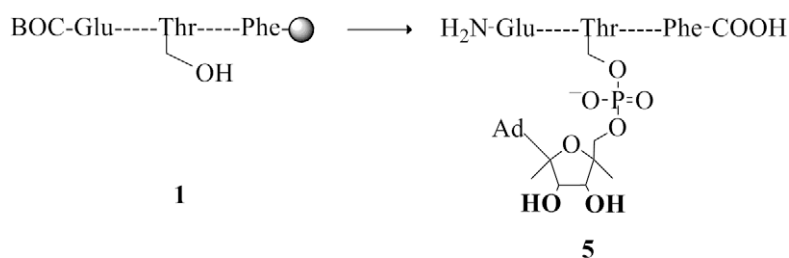
The first aminoxy-based cationization reagents are reported.



**Chemical synthesis of Ser/Thr AMPylated peptides**

pp 1730–1731

Rwaida A. Al-Eryani, Yan Li, Haydn L. Ball\*

**Syntheses and fluorescence of RNA conjugates having pyrene-modified adenosine and nitrobenzene-modified uridine base pairs**

pp 1732–1735

Minoru Fukuda, Mitsunobu Nakamura\*, Tadao Takada, Kazushige Yamana\*

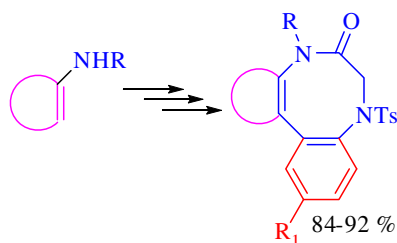


RNA duplexes possessing 2'-O-(1-pyrenylmethyl)adenosine and 5-(4-nitrophenyl)uridine base pairs were prepared. The RNA duplexes showed very weak fluorescence due to pyrene monomer and excimer emissions, which resulted from the electron transfer from the excited pyrene to the nitrobenzene acceptor.

**Synthesis of benzodiazocine-annulated heterocycles by the implementation of Pd-catalyzed intramolecular Heck reaction**

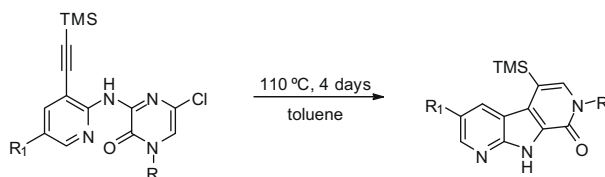
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K. C. Majumdar\*, Krishanu Ray, Sintu Ganai

**Intramolecular Diels–Alder synthesis of 7-aza- $\alpha$ -carboline compounds**

pp 1739–1741

Michael B. Wallace\*, Nicholas Scorch, Phong H. Vu, Jason W. Brown, Jeffrey A. Stafford, Qing Dong

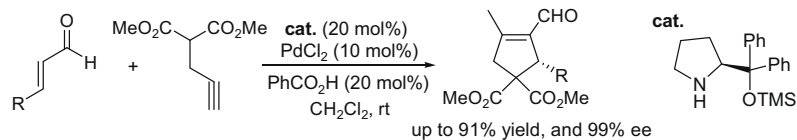




**Highly enantioselective Michael-cyclization cascade promoted by synergistic asymmetric aminocatalysis and Lewis acid catalysis**

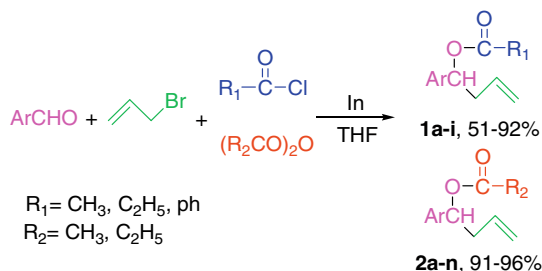
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Chenguang Yu, Yinan Zhang, Shilei Zhang, Jing He\*, Wei Wang\*

**Indium-mediated one-pot, three-component synthesis of homoallyl alcohol esters without catalysts and dehydrants**

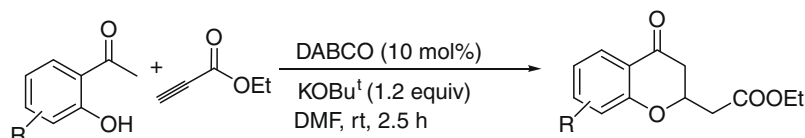
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Zhengyin Du\*, Yanchun Li, Fen Wang, Wanwei Zhou, Jin-Xian Wang

**One-pot reaction of *ortho*-acylphenols and terminal alkynoates for synthesis of 2-alkyl-substituted chromanones**

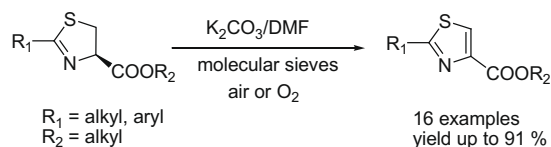
pp 1748–1750

Ling-Guo Meng, Hui-Fang Liu, Jian-Long Wei, Sun-Na Gong, Song Xue\*

**Oxidation of 4-carboxylate thiazolines to 4-carboxylate thiazoles by molecular oxygen**

pp 1751–1753

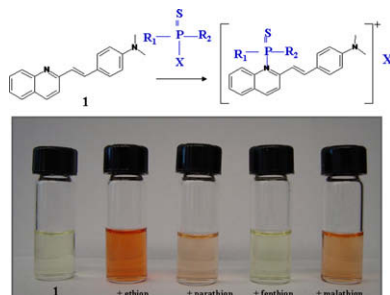
Yue Huang, Haifeng Gan, Shang Li, Jinyi Xu, Xiaoming Wu\*, Hequan Yao\*



**Dual colorimetric and electrochemical sensing of organothiophosphorus pesticides by an azastilbene derivative**

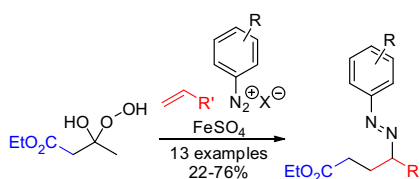
pp 1754–1757

Chandrima De, Tova A. Samuels, Tajay L. Haywood, Ginger A. Anderson, Keith Campbell, Kenneth Fletcher, Desmond H. Murray, Sherine O. Obare\*

An azastilbene derivative **1** shows specific color changes when bound to either ethion, parathion, fenthion or malathion.**Hydroperoxides and aryl diazonium salts as reagents for the functionalization of nonactivated olefins**

pp 1758–1760

Olga Blank, Nicole Raschke, Markus R. Heinrich\*

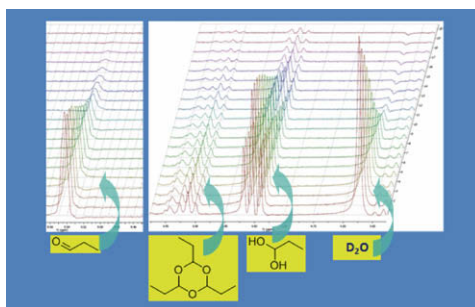


Hydroperoxides, olefins, and arenediazonium salts selectively combine to give azo compounds via an iron(II)-mediated three-component reaction. Starting with a fragmentation liberating acetic acid, the hydroperoxides act as radical source and the diazonium ions as nitrogen-centered radical scavengers.

**Spontaneous cyclo-trimerization of propionaldehyde in aqueous solution**

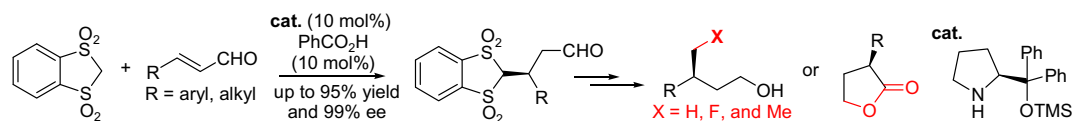
pp 1761–1765

Pablo Corrochano, Luis García-Río\*, Francisco Javier Poblete, Pedro Rodríguez-Dafonte

**1,3-Benzodithiole-1,1,3,3-tetraoxide (BDT) as a versatile methylation reagent in catalytic enantioselective Michael addition reaction with enals**

pp 1766–1769

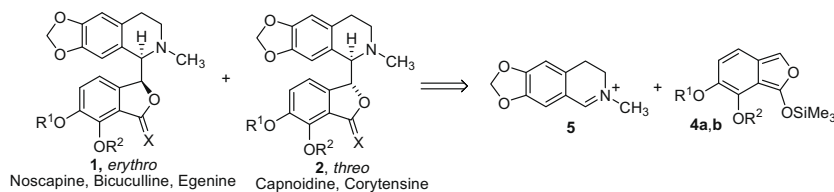
Shilei Zhang, Jian Li\*, Sihao Zhao, Wei Wang\*



**Short synthesis of noscapine, bicuculline, egenine, capnoidine, and corytensine alkaloids through the addition of 1-siloxy-isobenzofurans to imines**

pp 1770–1773

Maria Del Pilar C. Soriano, Nagula Shankaraiah, Leonardo Silva Santos\*

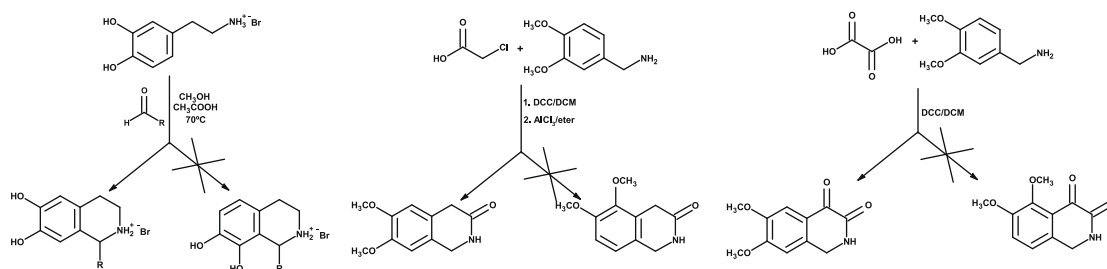


A concise diastereoselective strategy for the syntheses of several isoquinoline alkaloids was developed via a divergent route by the addition of 1-siloxy-isobenzofurans **4a** and **4b** to iminium **5** in a one-pot approach.

**Regioselectivity in isoquinoline alkaloid synthesis**

pp 1774–1778

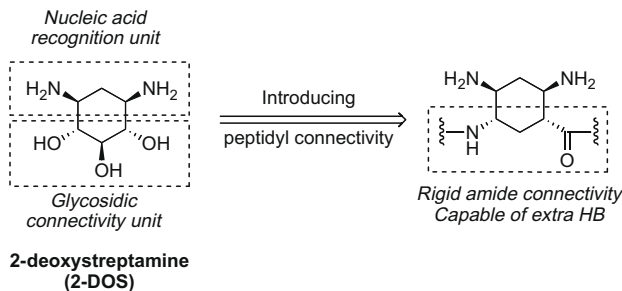
Rodolfo Quevedo\*, Edwin Baquero, Mario Rodriguez



**Synthesis of 2,4,5-triaminocyclohexanecarboxylic acid as a novel 2-deoxystreptamine mimic**

pp 1779–1781

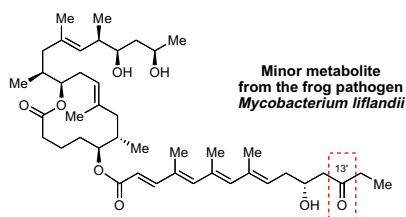
Sarah Roberts, Maruthi Chittapragada, Krishnaiah Pendem, Brandon J. Leavitt, John W. Mahler, Young Wan Ham\*



**Synthesis and structure assignment of the minor metabolite arising from the frog pathogen *Mycobacterium liflandii***

pp 1782–1785

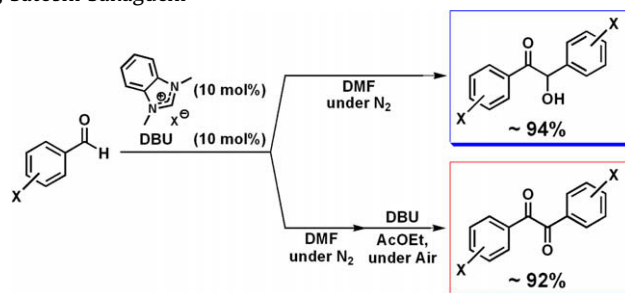
Thomas Spangenberg, Sylvain Aubry, Yoshito Kishi\*



**Facile route to benzils from aldehydes via NHC-catalyzed benzoin condensation under metal-free conditions**

pp 1786–1789

Yuuki Shimakawa, Takashi Morikawa, Satoshi Sakaguchi\*

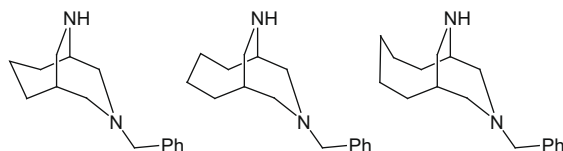


A simple and efficient one-pot procedure for the synthesis of  $\alpha$ -diketones from aldehydes via benzoin condensation under the influence of a catalytic amount of azolium salt combined with DBU has been developed.

**Synthesis of bridged 1,4-diazepane derivatives via Schmidt reactions**

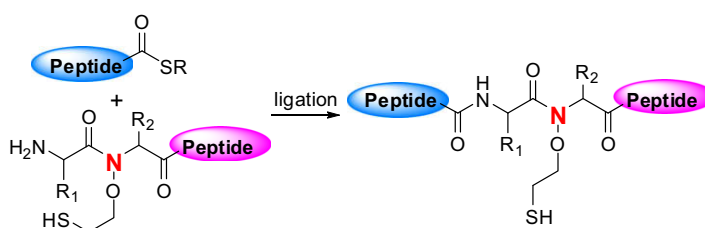
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Andrey P. Mityuk, Aleksandr V. Denisenko, Oleksandr P. Dacenko, Oleksandr O. Grygorenko\*, Pavel K. Mykhailiuk\*, Dmitriy M. Volochnyuk, Andrey A. Tolmachev

**Peptide ligation assisted by an auxiliary attached to amidyl nitrogen**

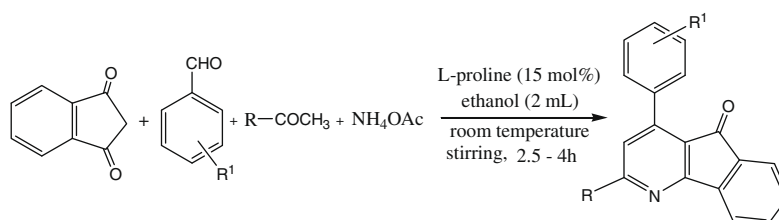
pp 1793–1796

Juan Li, Hong-Kui Cui, Lei Liu\*

**L-Proline-catalyzed one-pot expeditious synthesis of highly substituted pyridines at room temperature**

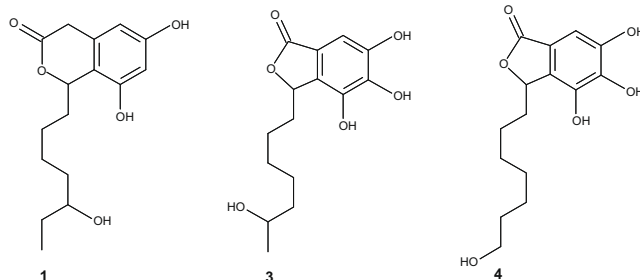
pp 1797–1802

Chhanda Mukhopadhyay\*, Pradip Kumar Tapaswi, Ray J. Butcher



**Cytosporones O, P and Q from an endophytic *Cytospora* sp.****pp 1803–1805**

Lucas M. Abreu\*, Richard K. Phipps, Ludwig H. Pfenning, Charlotte H. Gotfredsen, Jacqueline A. Takahashi, Thomas O. Larsen



\*Corresponding author

+ Supplementary data available via ScienceDirect

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