

Tetrahedron Letters Vol. 49, No. 31, 2008

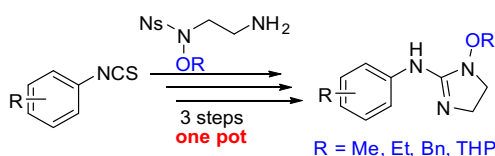
Contents

COMMUNICATIONS

Efficient one-pot synthesis of 1-alkoxy-2-arylaminoimidazolines from *N*-alkoxy-*N*-(2-aminoethyl)-2-nitrobenzenesulfonamides and arylisothiocyanates

pp 4571–4574

Ainhoa Mascaraque, Lidia Nieto, Christophe Dardonville \*

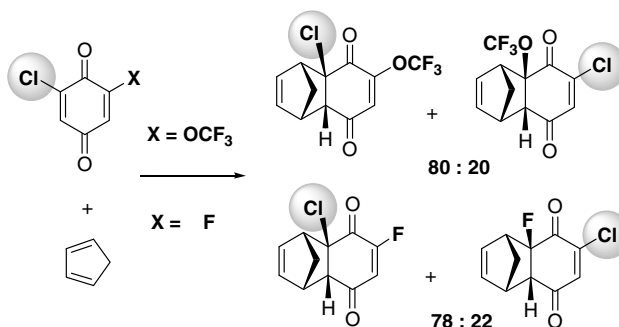


The synthesis of 1-alkoxy-2-aminoimidazolines using *N*-alkoxy-*N*-(2-aminoethyl)-2-nitrobenzenesulfonamides as nucleophile reagents was performed in high yield with a one-pot procedure involving thiourea formation, nosyl group removal and spontaneous cyclization.

The trifluoromethoxy group as a fluorine twin in the Diels–Alder reactions of halogenated quinones

pp 4575–4578

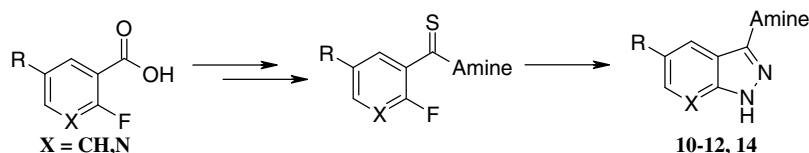
Emmanuel Magnier, Patrick Diter, Jean-Claude Blazejewski \*



An efficient route to 3-aminoindazoles and 3-amino-7-azaindazoles

pp 4579–4581

Michael J. Burke \*, Brian M. Trantow



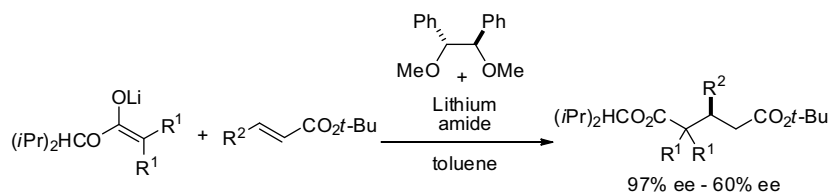
A non-acidic three-step procedure for the synthesis of 3-aminoindazoles and 3-amino-7-azaindazoles is reported starting from 2-fluoroarylcarboxylic acids.



**A ternary complex reagent for an asymmetric Michael reaction of lithium ester enolates with enoates**

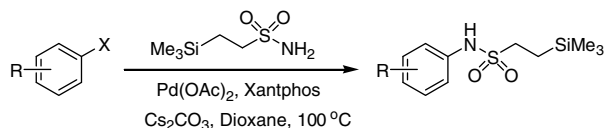
pp 4582–4584

Yasutomo Yamamoto, Hirokazu Suzuki, Yorinobu Yasuda, Akira Iida, Kiyoshi Tomioka \*

**2-(Trimethylsilyl)ethanesulfonyl amide as a new ammonia equivalent for palladium-catalyzed amination of aryl halides**

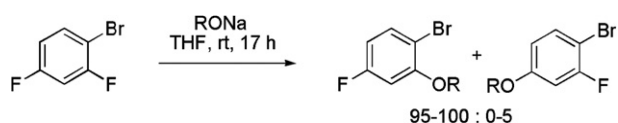
pp 4585–4587

Prakash Anjanappa, Dibakar Mullick, Kumaravel Selvakumar \*, Manickam Sivakumar \*

**Regioselectivity of fluorine substitution by alkoxides on unsymmetrical difluoroarenes**

pp 4588–4590

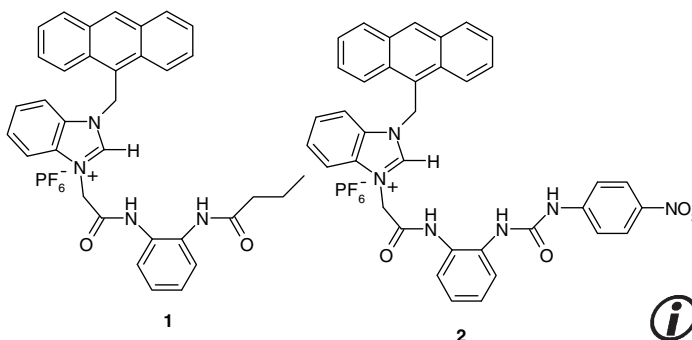
Ronan Dirr, Cyril Anthaume, Laurent Désaubry \*

**Anthracene-based *ortho*-phenylenediamine clefts for sensing carboxylates**

pp 4591–4595

Kumaresh Ghosh \*, Indrajit Saha

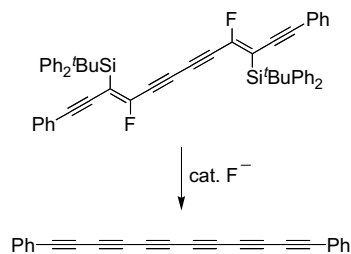
Two *ortho*-phenylenediamine-based new receptors **1** and **2** with an anthracene-coupled benzimidazolium motif have been designed and synthesized. The directed hydrogen bonds and charge–charge interactions allowed the open clefts of both **1** and **2** to bind carboxylate, fluoride and dihydrogenphosphate anions with moderate binding constant values. The binding cleft of **2** is found to be more effective than that of **1**.



**$\beta$ -Halovinylsilanes in oligoynes synthesis: a fluoride-catalysed unmasking of alkynes from  $\beta$ -fluorovinylsilanes**

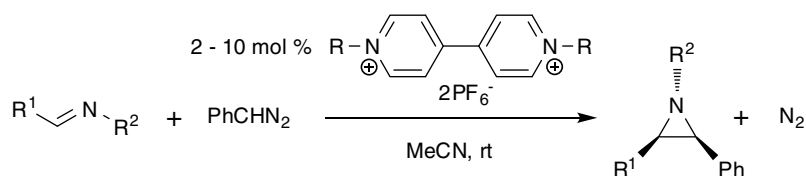
pp 4596–4600

Michael D. Weller, Benson M. Kariuki, Liam R. Cox \*

**Aziridine synthesis in the presence of catalytic amounts of pyridiniums or viologens**

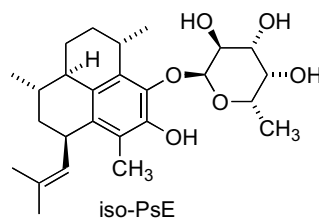
pp 4601–4603

Zheng Xue, Arindam Mazumdar, Louisa J. Hope-Weeks, Michael F. Mayer \*

**iso-PsE, a new pseudopterosin**

pp 4604–4606

Christophe Hoarau, Daniel Day, Claudia Moya, Guang Wu, Abdul Hackim, Robert S. Jacobs, R. Daniel Little \*

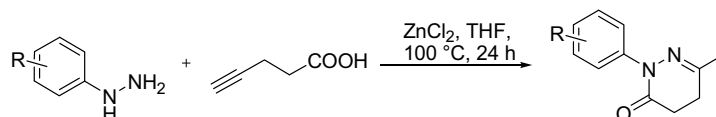


A new anti-inflammatory agent, called iso-PsE, is described.

**First synthesis of 4,5-dihydro-3(2H)-pyridazinones via Zn-mediated hydrohydrazination**

pp 4607–4609

Karolin Alex, Annegret Tillack, Nicole Schwarz, Matthias Beller \*

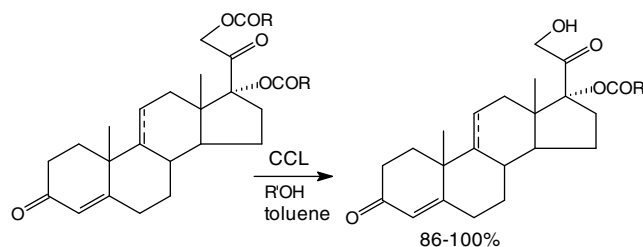


The hydrohydrazination of 4-pentynoic acid in the presence of zinc chloride gave access to different aryl-substituted 4,5-dihydro-3-pyridazinones in good yields.

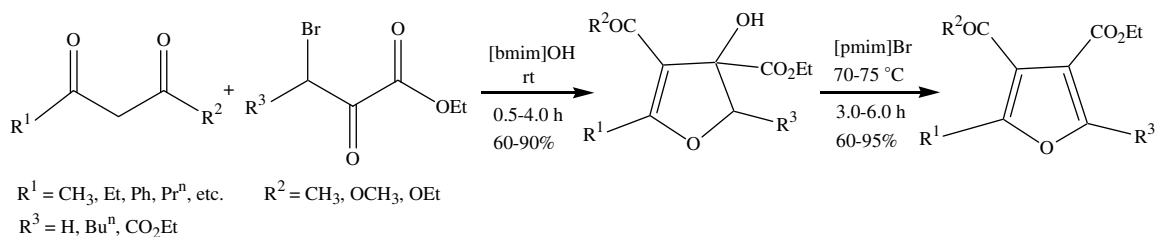


**Lipase-catalyzed preparation of corticosteroid 17 $\alpha$ -esters endowed with antiandrogenic activity**

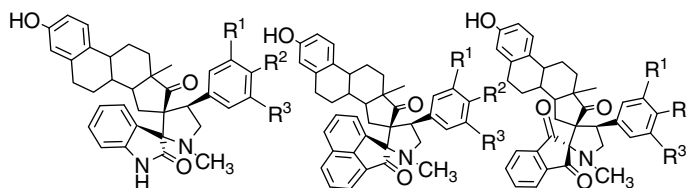
pp 4610–4612

Patrizia Ferraboschi <sup>\*</sup>, Maria De Mieri, Laura Ragonesi**Ionic liquid promoted interrupted Feist–Benary reaction with high diastereoselectivity**

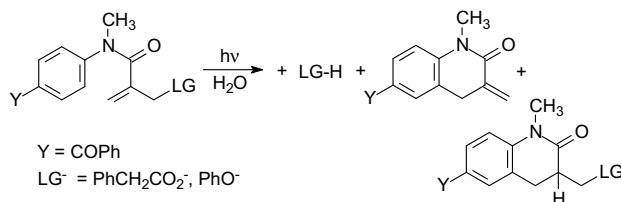
pp 4613–4617

Brindaban C. Ranu <sup>\*</sup>, Laksmikanta Adak, Subhash Banerjee**An easy access to novel steroidal dispiropyrrolidines through 1,3-dipolar cycloaddition of azomethine ylides**

pp 4618–4620

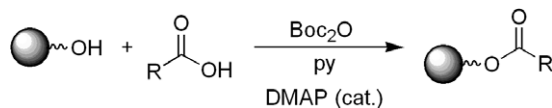
A. R. Suresh Babu, R. Raghunathan <sup>\*</sup>**Photochemical electrocyclicization of  $\alpha,\beta$ -unsaturated anilides to give zwitterionic intermediates which eliminate carboxylate and phenolate leaving groups**

pp 4621–4623

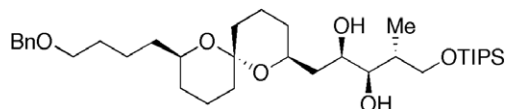
Jinli Jia, Mark G. Steinmetz <sup>\*</sup>, Ruchi Shukla, Rajendra Rathore

**Di-*tert*-butyl dicarbonate as an efficient coupling reagent for the immobilization of carboxylic acid moieties**

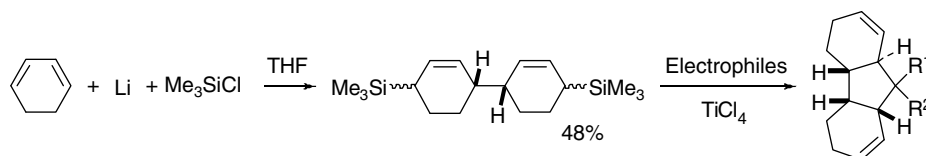
pp 4624–4625

María de los Angeles Laborde <sup>\*</sup>, Paula Bermejo, Dora B. Boggián, Ernesto G. Mata <sup>\*</sup>**Stereocontrolled synthesis of the C79–C96 fragment of symbiodinolide**

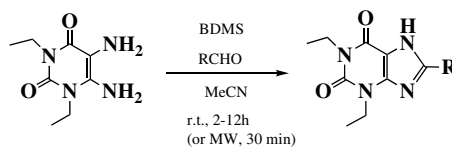
pp 4626–4629

Hiroyoshi Takamura <sup>\*</sup>, Junki Ando, Takashi Abe, Takeshi Murata, Isao Kadota <sup>\*</sup>, Daisuke Uemura**Ti-catalyzed reactions of 4,4'-bis(trimethylsilyl)bicyclohexyl-2,2'-diene with various electrophiles**

pp 4630–4632

Chahinez Aouf, Douniazad El Abed, Michel Giorgi, Maurice Santelli <sup>\*</sup>**Synthesis of 8-substituted xanthenes via 5,6-diaminouracils: an efficient route to A<sub>2A</sub> adenosine receptor antagonists**

pp 4633–4635

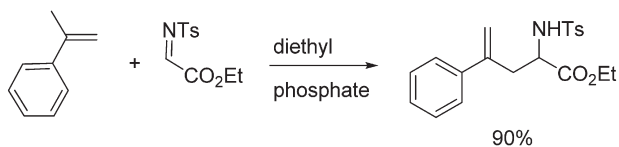
Ma Dong, Mikhail Sitkovsky, Amy E. Kallmerten, Graham B. Jones <sup>\*</sup>

A one-pot route to 8-substituted xanthenes has been developed from 5,6-diaminouracils and carboxaldehydes. The process, promoted by (bromodimethyl)sulfonium bromide, is mild and efficient and eliminates the need for oxidants. Yields are good and the process applicable to a range of substrates including a family of A<sub>2A</sub> adenosine receptor antagonists. Preparation of a new analog of the antagonist KW-6002 is presented.

**Bronsted acid promoted imino-ene reactions**

pp 4636–4639

Lindsey H. Oliver, Lauren A. Puls, Suzanne L. Tobey \*

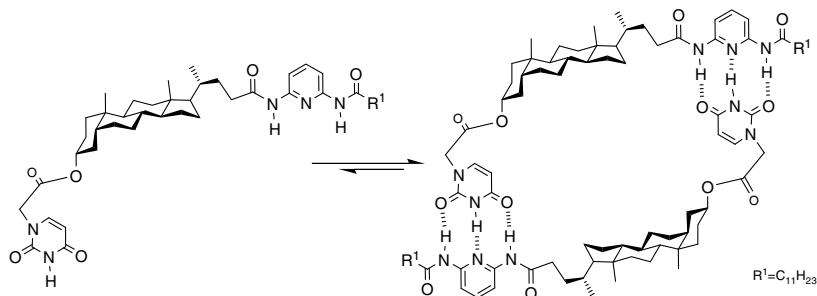


A series of all-carbon olefins react with glyoxylate-derived imines in the presence of a phosphonic acid through an ene reaction. The isolation of the  $\alpha$ -aminoester products is a clear indication that Bronsted acids efficiently promote the imino-ene reaction with hydrocarbon nucleophiles to deliver functionalized  $\alpha$ -aminoesters in good yield. The reaction scope and preliminary mechanistic investigations are discussed.

**Synthesis of a novel uracil-2,6-diaminopyridine-lithocholic acid conjugate that self-assembles into a cyclic dimer**

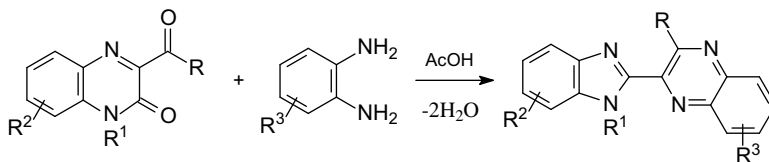
pp 4640–4643

Prosenjit Chattopadhyay, Pramod S. Pandey \*

**A versatile one-step method for the synthesis of benzimidazoles from quinoxalinones and arylenediamines via a novel rearrangement**

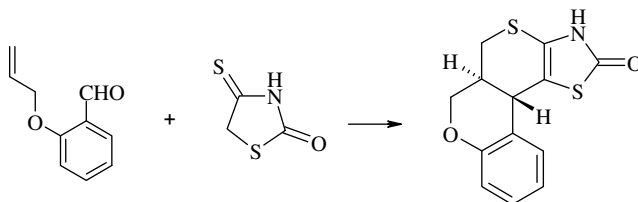
pp 4644–4647

Vakhid A. Mamedov \*, Dina F. Saifina, Il'dar Kh. Rizvanov, Aidar T. Gubaidullin

**A new domino-Knoevenagel–hetero-Diels–Alder reaction**

pp 4648–4651

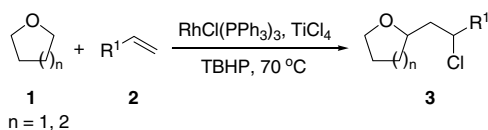
Vasyl S. Matyichuk, Roman B. Lesyk, Mykola D. Obushak \*, Andrzej Gzella, Dmytro V. Atamanyuk, Yuri V. Ostapiuk, Anna P. Kryshchshyn



**A coupling reaction between tetrahydrofuran and olefins by Rh-catalyzed/Lewis acid-promoted C–H activation**

pp 4652–4654

Ke Cao, Yi-Jun Jiang, Shu-Yu Zhang, Chun-An Fan, Yong-Qiang Tu\*, Yuan-Jiang Pan

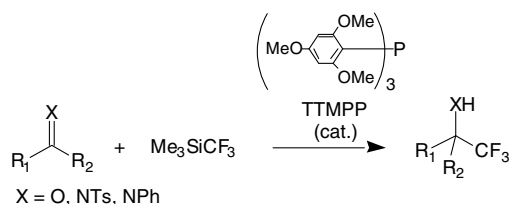


A novel coupling reaction between tetrahydrofuran and olefins is discovered, in which the consecutive C–C and C–Cl bond-forming process takes place via Rh-catalyzed/Lewis acid-promoted C–H activation. This reaction could be developed into a straightforward and effect method for rapid access to 2-(2-chloro-2-arylethyl)-tetrahydrofuran compounds.

**TTMPP-catalyzed trifluoromethylation of carbonyl compounds and imines with trifluoromethylsilane**

pp 4655–4657

Satoru Matsukawa\*, Marina Saijo

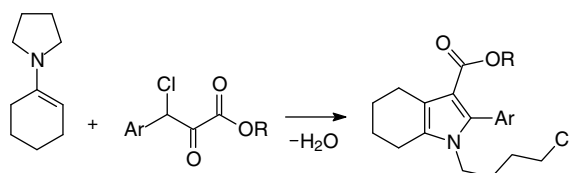


A highly basic phosphine, tris(2,4,6-trimethoxy phenyl)phosphine (TTMPP), catalyzes trifluoro-methylation using trifluoromethyltrimethylsilane to give the corresponding alcohols and amines in good to high yield.

**A novel one-step efficient method for the synthesis of tetrahydroindoles from 1-(1-pyrrolidino)cyclohexene and chloropyruvates**

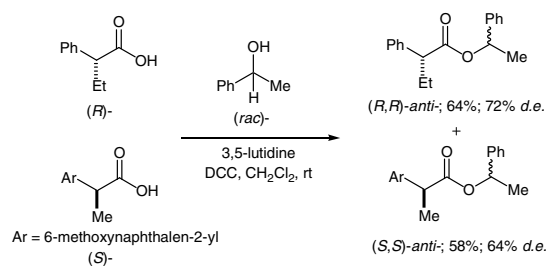
pp 4658–4660

Vakhid A. Mamedov\*, Tat'yana N. Beschastnova, Nataliya A. Zhukova, Aidar T. Gubaidullin, Rustem A. Isanov, Il'dar Kh. Rizvanov

**Parallel kinetic resolution of racemic 1-phenylethanol using quasi-enantiomeric combinations of carboxylic acids mediated by N,N-dicyclohexylcarbodiimide and 3,5-lutidine**

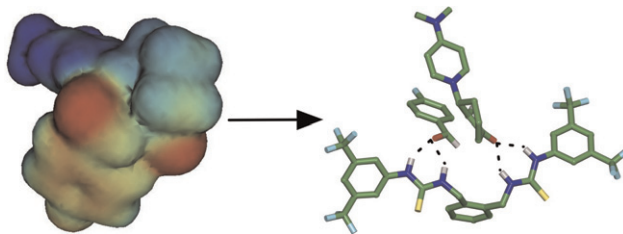
pp 4661–4665

Najla Al Shaye, Andrew N. Boa, Elliot Coulbeck, Jason Eames\*



**A rationally designed cocatalyst for the Morita–Baylis–Hillman reaction**

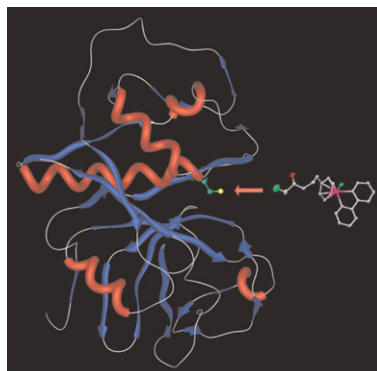
pp 4666–4669

Charlotte E. S. Jones, Simon M. Turega, Matthew L. Clarke <sup>\*</sup>, Douglas Philp <sup>\*</sup>**Functionalized cationic ( $\eta^6$ -arene)ruthenium(II) complexes for site-specific and covalent anchoring to papain from papaya latex. Synthesis, X-ray structures and reactivity studies**

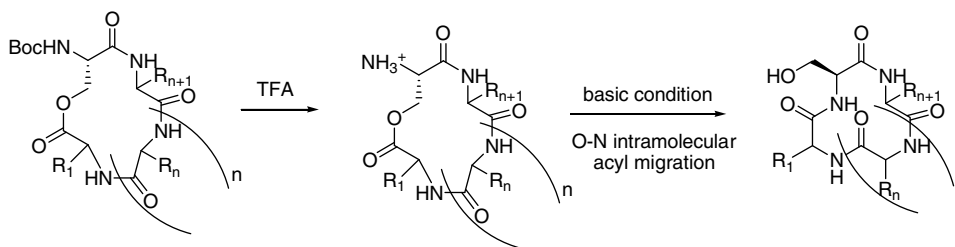
pp 4670–4673

Pierre Haquette, Barisa Talbi, Sigolène Canaguier, Samuel Dagonne, Céline Fosse, Annie Martel, Gérard Jaouen, Michèle Salmain <sup>\*</sup>

Chloroacetamide and maleimide derivatives of cationic ( $\eta^6$ -arene)ruthenium complexes were synthesized and anchored to the active site of the cysteine endoprotease papain in a site-directed and covalent fashion.

**Synthesis of cyclic peptides via O–N-acyl migration**

pp 4674–4676

Jennifer Lécaillon, Pierre Gilles, Gilles Subra, Jean Martinez, Muriel Amblard <sup>\*</sup><sup>\*</sup>Corresponding author

Supplementary data available via ScienceDirect

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