

Tetrahedron Letters Vol. 51, No. 3, 2010

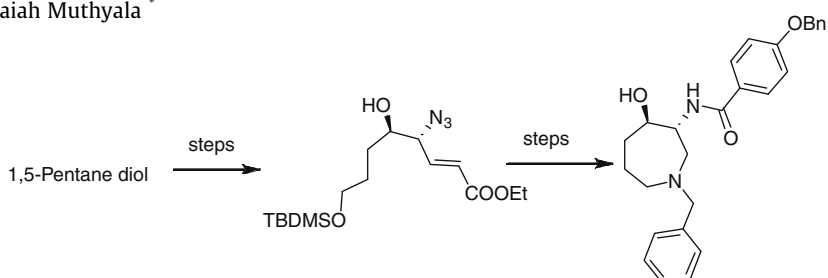
Contents

COMMUNICATIONS

Formal total synthesis of (–)-balanol: a potent PKC inhibitor

pp 467–470

Srinivasarao Yaragorla, Ramaiah Muthyala \*



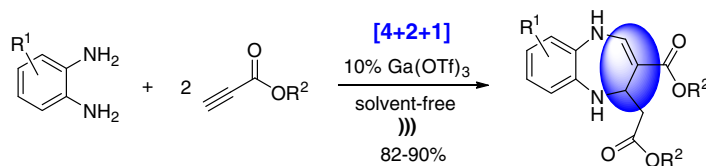
An efficient formal total synthesis of the PKC inhibitor balanol **1** is described, starting from the commercially available pentane-1,5-diol. A Shi epoxidation and Pd(0)-mediated nitrogen substitution with double inversion are the key steps to establish the correct configuration of the balanol precursor **3**.



Gallium(III) triflate-catalyzed [4+2+1] cycloadditions for synthesis of novel 3,4-disubstituted-1,5-benzodiazepines

pp 471–474

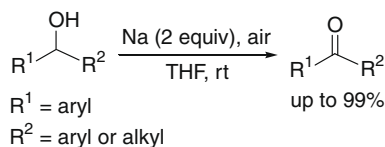
Yao-Jia Jiang, Jing-Jing Cai, Jian-Ping Zou \*, Wei Zhang \*



Na-promoted aerobic oxidation of alcohols to ketones

pp 475–477

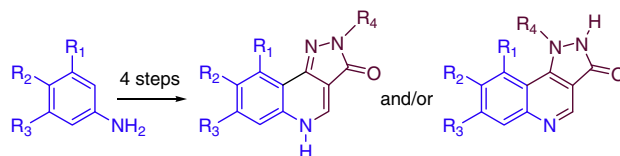
Li-Hong Zhou, Xiao-Qi Yu \*, Lin Pu \*



### An alternative approach toward 2-aryl-2H-pyrazolo[4,3-c]quinolin-3-ones by a multistep synthesis

pp 478–481

Marisa J. López Rivilli, Elizabeth L. Moyano\*, Gloria I. Yranzo\*



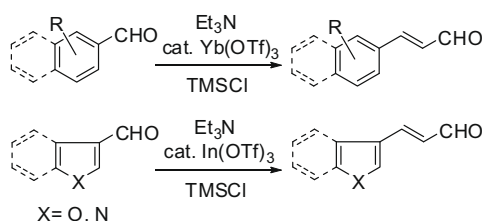
An effective and multistep protocol to synthesize pyrazolo[4,3-c]quinolin-3-ones from simple anilines has been described.



### Rare earth triflates/chlorotrimethylsilane induced activation of triethylamine as a latent acetaldehyde anion: a new synthesis of $\alpha,\beta$ -unsaturated aldehydes

pp 482–484

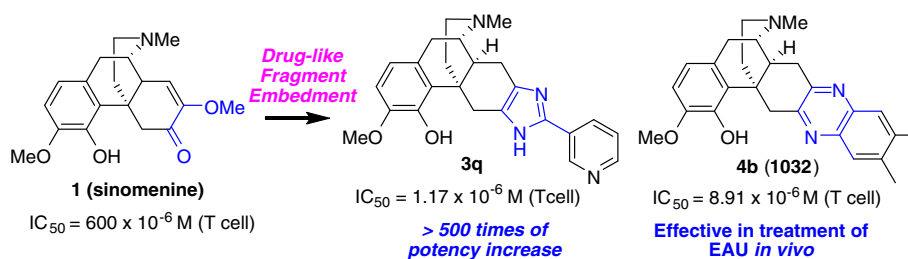
Natsuko Kagawa, Yoshiko Sasaki, Hideo Kojima, Masahiro Toyota\*



### Modification of poorly bioactive sinomenine into more potent immunosuppressive agents by embedding of drug-like fragments

pp 485–488

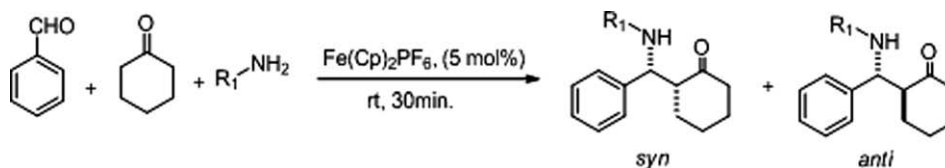
Yang-Tong Lou, Hai-Bin Zhou, Jia Zou, Ling-Chen Yan, En-Guan Bi, Bing Sun\*, Zhu-Jun Yao\*



### Direct Mannich reaction mediated by Fe(Cp)<sub>2</sub>PF<sub>6</sub> under solvent-free conditions

pp 489–494

Rukhsana I. Kureshy\*, Santosh Agrawal, S. Saravanan, Noor-ul H. Khan, Arpan K. Shah, Sayed H.R. Abdi, Hari C. Bajaj, E. Suresh

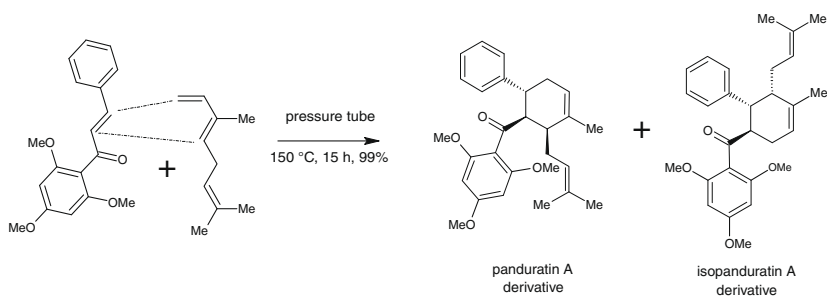


Fe(Cp)<sub>2</sub>PF<sub>6</sub> catalyzed Mannich reaction of aldehydes, anilines, and ketones under solvent-free condition to give  $\beta$ -amino-ketones in high yield (up to 94%) within 30 min with *anti*-isomer in excess.

**An efficient synthesis of (±)-panduratin A and (±)-isopanduratin A, inhibitors of dengue-2 viral activity**

pp 495–498

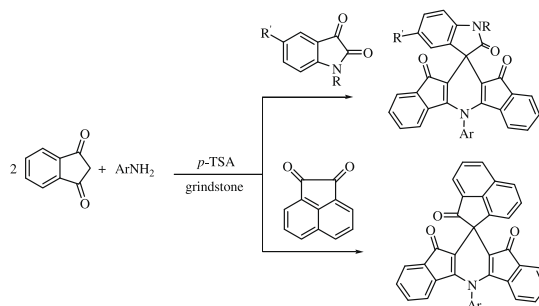
Chin Fei Chee, Iskandar Abdullah, Michael J. C. Buckle, Noorsaadah Abd Rahman \*



**Grindstone chemistry: one-pot synthesis of spiro[diindenopyridine-indoline]triones and spiro[acenaphthylene-diindenopyridine]triones**

pp 499–502

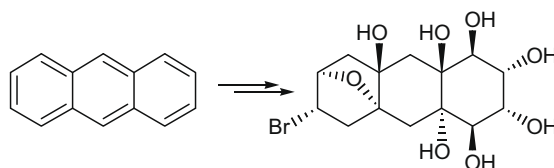
Ramin Ghahremanzadeh, Somayeh Ahadi, Ghazaleh Imani Shakibaei, Ayoob Bazgir \*



**From aromatics to conjoined inositols: stereoselective oxyfunctionalization of anthracene**

pp 503–507

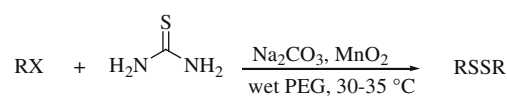
Goverdhan Mehta \*, Saikat Sen



**A one-pot, efficient, and odorless synthesis of symmetrical disulfides using organic halides and thiourea in the presence of manganese dioxide and wet polyethylene glycol (PEG-200)**

pp 508–509

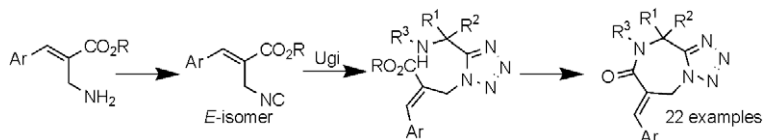
Habib Firouzabadi \*, Nasser Iranpoor \*, Mohammad Abbasi



### Isonitriles from the Baylis–Hillman adducts of acrylates: viable precursor to tetrazolo-fused diazepinones via post-Ugi cyclization

pp 510–516

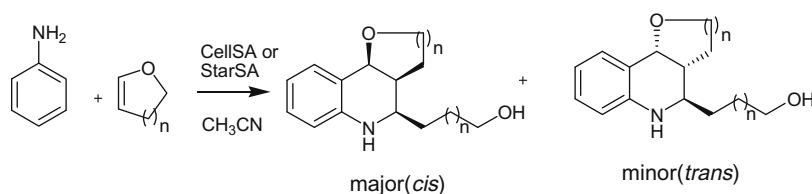
Maloy Nayak, Sanjay Batra \*



### Supramolecular carbohydrate scaffold catalyzed synthesis of tetrahydroquinolines

pp 517–520

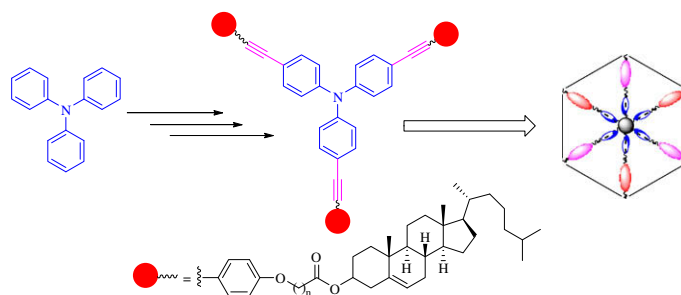
Atul Kumar \*, Suman Srivastava, Garima Gupta



### Synthesis and mesomorphic behaviour of new discotic liquid crystalline compounds containing triphenylamine as a core moiety via Sonogashira coupling

pp 521–524

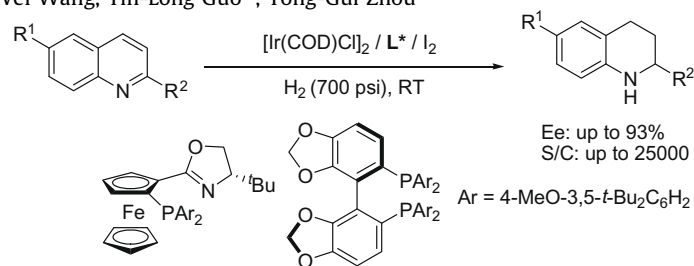
K. C. Majumdar \*, Shovan Mondal, Nirupam De, Randhir Kumar Sinha, Nilasish Pal, B. Roy



### Inhibiting deactivation of iridium catalysts with bulky substituents on coordination atoms

pp 525–528

Duo-Sheng Wang, Juan Zhou, Da-Wei Wang, Yin-Long Guo \*, Yong-Gui Zhou \*



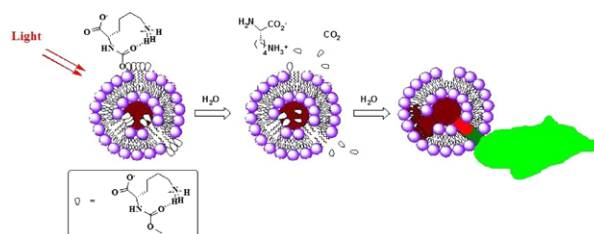
Introducing bulky groups on the coordination phosphorus atoms can effectively block the formation of inactive species and improve the activity of the iridium catalysts. Results of ESI-MS analysis gave strong evidence. This strategy was successfully applied to the asymmetric hydrogenation of quinolines with up to 93% ee on S/C ratio of 25,000.



**Light-mediated and H-bond facilitated liposomal release: the role of lipid head groups in release efficiency**

pp 529–532

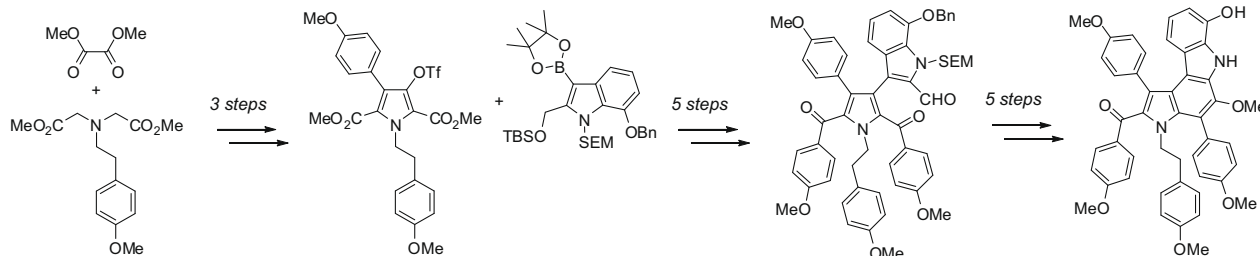
Rajesh Subramaniam, Ying Xiao, Yunjing Li, Steven Y. Qian, Wenfang Sun, Sanku Mallik \*



**A formal total synthesis of the telomerase inhibitor dictyodendrin B**

pp 533–536

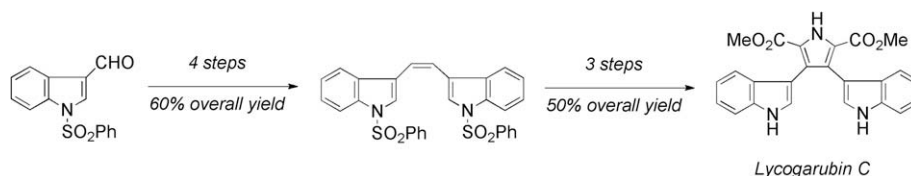
Shotaro Hirao, Yuki Yoshinaga, Masatomo Iwao, Fumito Ishibashi \*



**Total synthesis of lycogarubin C utilizing the Kornfeld–Boger ring contraction**

pp 537–539

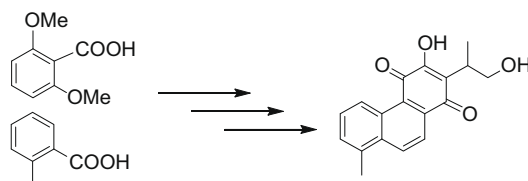
Liangfeng Fu, Gordon W. Gribble \*



**A simple and efficient total synthesis of (±)-danshexinkun A, a bioactive diterpenoid from *Salvia miltiorrhiza***

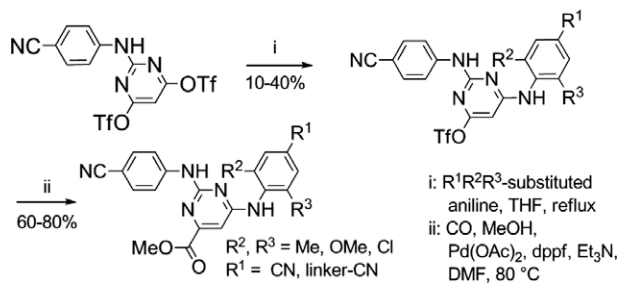
pp 540–542

Firouz Matloubi Moghaddam \*, Mahdi Moridi Farimani



### A novel route to 2,4-dianilino-substituted pyrimidines

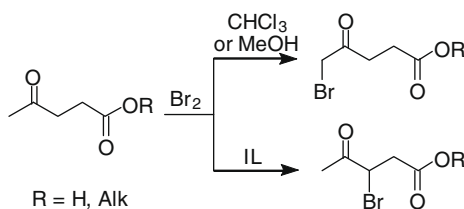
pp 543–544

Ruben Leenders<sup>\*</sup>, Jan Heeres, Jérôme Guillemont, Paul Lewi

A method is described to couple sterically-hindered electron-poor anilines to the 4-position of the pyrimidine core using a pyrimidine-2,4-bis(trifluoromethanesulfonate).

### Variation in the regioselectivity of levulinic acid bromination in ionic liquids

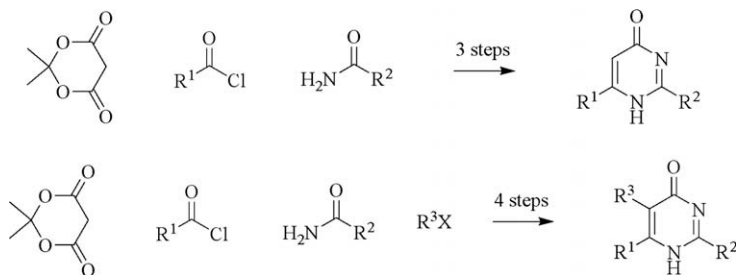
pp 545–547

Alexander G. Zavozin<sup>\*</sup>, Natalya E. Kravchenko, Nikolay V. Ignat'ev, Sergei G. Zlotin

### A facile synthesis of pyrimidin-4-ones

pp 548–549

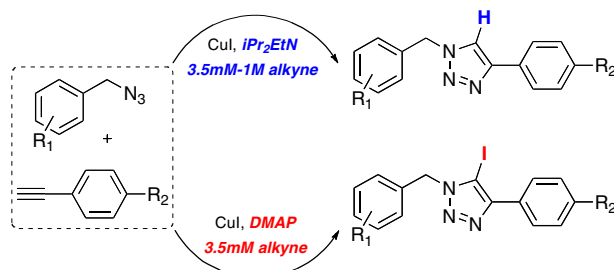
Cheng Guo



2,6-Disubstituted pyrimidin-4-ones and 2,5,6-trisubstituted pyrimidin-4-ones were synthesized from commercially available materials in good yields with the aid of microwaves in key steps.

### Base and concentration effects on the product distribution in copper-promoted alkyne–azide cycloaddition: additive-free route to 5-iodo-triazoles

pp 550–553

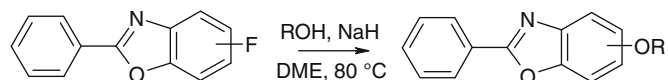
Nicholas W. Smith, Bradley P. Polenz, Shawna B. Johnson, Sergei V. Dzyuba<sup>\*</sup>

Formation of 5-iodo-triazoles in CuI-promoted cycloadditions between alkynes and azides is controlled by DMAP and low alkyne concentrations.



**Facile preparation of alkoxybenzoxazoles via direct  $S_NAr$  on the benzoxazole ring**

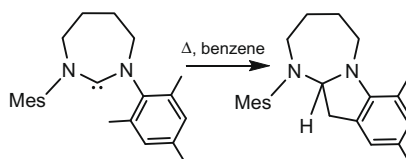
pp 554–556

Hervé Germain, Craig S. Harris<sup>\*</sup>, Michel Vautier, Nicolas Warin

The synthesis of alkoxybenzoxazoles is in general quite challenging. During our investigation, we discovered that C-4 and C-7 fluoro precursors undergo  $S_NAr$  with alkoxides affording moderate to excellent yields of substituted product.

**Intramolecular C–H insertion in ring-expanded *N*-heterocyclic carbenes**

pp 557–559

Robert S. Holdroyd, Michael J. Page, Mark R. Warren, Michael K. Whittlesey<sup>\*</sup>**OTHER CONTENT****Corrigendum**

p 560

<sup>\*</sup>Corresponding author

Supplementary data available via ScienceDirect

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ISSN 0040-4039