



## Tetrahedron Vol. 65, No. 21, 2009

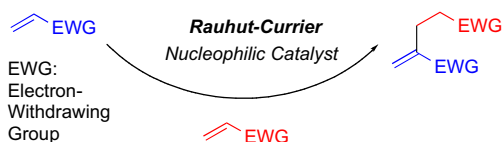
## Contents

## REPORT

**The Rauhut–Currier reaction: a history and its synthetic application**

pp 4069–4084

Carrie E. Aroyan, Alpay Dermenci, Scott J. Miller\*

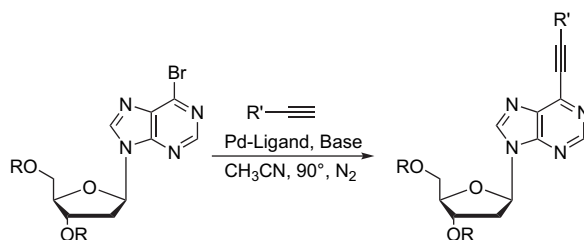


## ARTICLES

**The first Cu- and amine-free Sonogashira-type cross-coupling in the C-6-alkynylation of protected 2'-deoxyadenosine**

pp 4085–4091

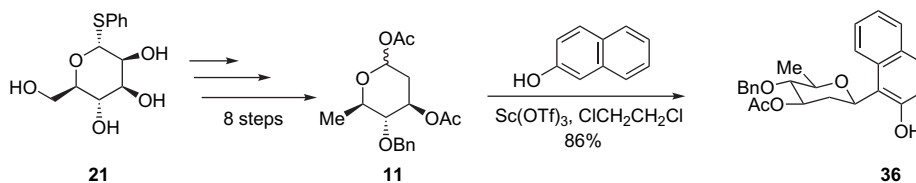
Felix N. Ngassa\*, Erick A. Lindsey, Brandon E. Haines



**Synthesis of orthogonally protected *D*-olivoside, 1,3-di-*O*-acetyl-4-*O*-benzyl-2,6-dideoxy-*D*-arabinopyranose, as a C-glycosyl donor**

pp 4092–4098

Hasnah Osman\*, David S. Larsen, Jim Simpson

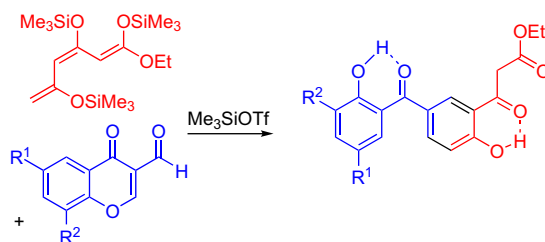


Differentially protected 2,6-dideoxyglycosyl donor **11** was synthesized from thiophenyl  $\alpha$ -*D*-mannopyranoside (**21**) in an eight-step sequence. Its  $\text{Sc}(\text{OTf})_3$  catalysed reaction with 2-naphthol gave  $\beta$ -C-glycoside **36** in 86% yield.

**Synthesis of polyketide-type phenols by domino 'Michael/retro-Michael/Aldol' reactions of 3-formylchromones with silyl enol ethers derived from ethyl 3,5-dioxohexanoate**

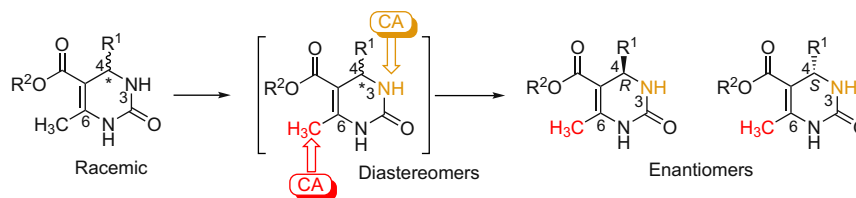
pp 4099–4105

Muhammad Adeel, Muhammad Nawaz, Alexander Villinger, Helmut Reinke, Christine Fischer, Peter Langer\*


**Chemical resolution of inherently racemic dihydropyrimidinones via a site selective functionalization of Biginelli compounds with chiral electrophiles: a case study**

pp 4106–4112

Kamaljit Singh\*, Sukhdeep Singh

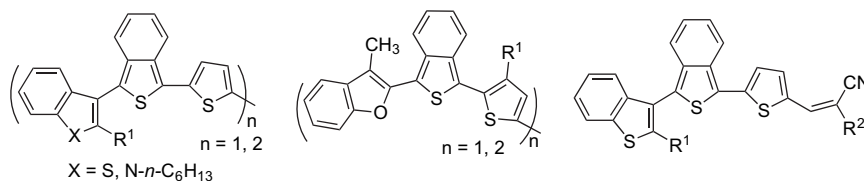


Expediently metalated Biginelli 3,4-dihydropyrimidine-2(1*H*)-one (DHPM) derivatives, substituted with chiral auxiliaries (CA) at *N*-3 site, selectively, furnish access to enantiomerically pure DHPMs. However, appending CA at *C*-6 methyl did not allow clean separation of diastereomers.

**Synthesis and characterization of benzo[*c*]thiophene analogs incorporating benzo[*b*]thiophene/1-hexylindole/benzo[*b*]furan**

pp 4113–4123

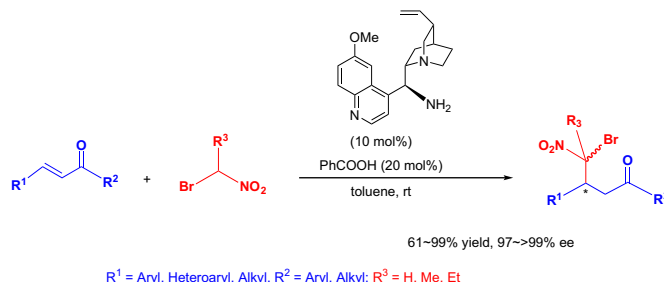
J. Arul Clement, Pethaiah Gunasekaran, Arasambattu K. Mohanakrishnan\*



**Highly enantioselective conjugate addition of 1-bromonitroalkanes to  $\alpha,\beta$ -unsaturated ketones catalyzed by 9-amino-9-deoxyepiquinine**

pp 4124–4129

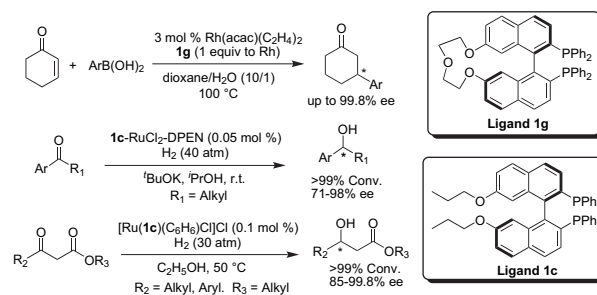
Li-ting Dong, Rui-jiong Lu, Quan-sheng Du, Jun-min Zhang, Sheng-ping Liu, Yi-ning Xuan, Ming Yan\*



**A class of readily available optically pure 7,7'-disubstituted BINAPs for asymmetric catalysis**

pp 4130–4141

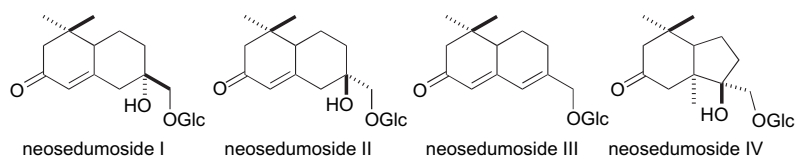
Wei-Cheng Yuan\*, Lin-Feng Cun, Ai-Qiao Mi, Yao-Zhong Jiang, Liu-Zhu Gong\*



**Novel megastigmanes with lipid accumulation inhibitory and lipid metabolism-promoting activities in HepG2 cells from *Sedum sarmentosum***

pp 4142–4148

Osamu Muraoka, Toshio Morikawa, Yi Zhang, Kiyofumi Ninomiya, Seikou Nakamura, Hisashi Matsuda, Masayuki Yoshikawa\*

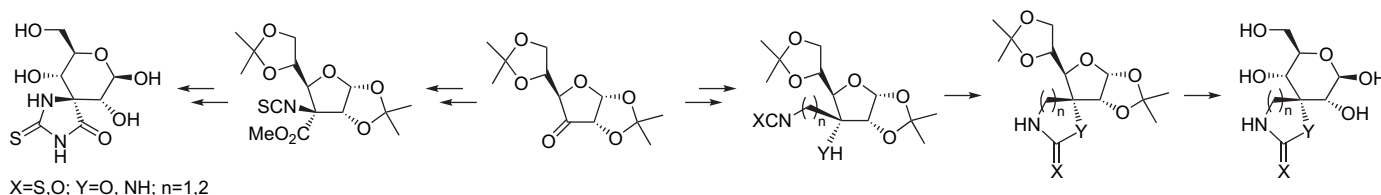


Novel megastigmanes, neosedumosides I–IV were isolated from *Sedum sarmentosum* and neosedumosides I–III were found to show lipid accumulation inhibitory activity in HepG2 cells. Furthermore, neosedumosides II and III were found to also show lipid metabolism promoting activity.

**Stereocontrolled synthesis of (5+5), (5+6) and (6+6) 3-spiropseudonucleosides**

pp 4149–4155

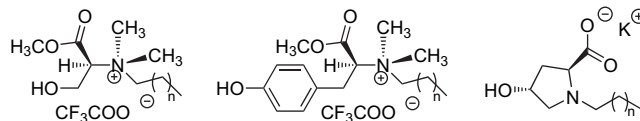
Consolación Gasch, José M. Illangua, Penélope Merino-Montiel, José Fuentes\*



### Towards novel efficient monomeric surfactants based on serine, tyrosine and 4-hydroxyproline: synthesis and micellization properties

pp 4156–4164

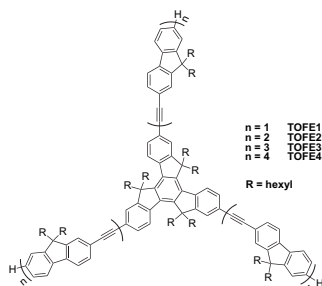
S. Goreti Silva, J. Enrique Rodríguez-Borges, Eduardo F. Marques, M. Luísa C. do Vale\*



### Star-shaped oligo(fluorene ethynylene)-functionalized truxene derivatives: synthesis, characterization, and their size effects

pp 4165–4172

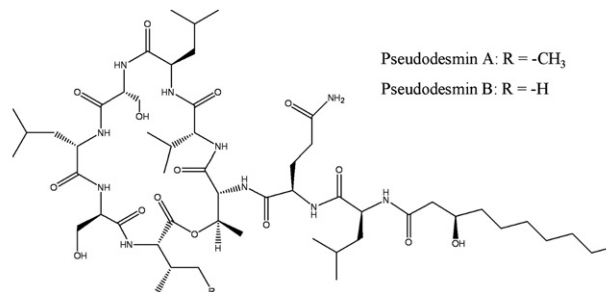
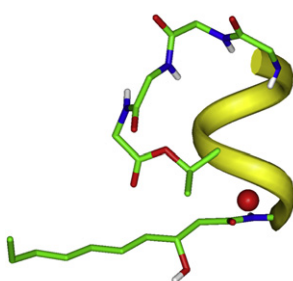
Si-Chun Yuan\*, Qingjiang Sun, Ting Lei, Bin Du, Yong-Fang Li\*, Jian Pei\*



### Structure and X-ray conformation of pseudodesmins A and B, two new cyclic lipodepsipeptides from *Pseudomonas* bacteria

pp 4173–4181

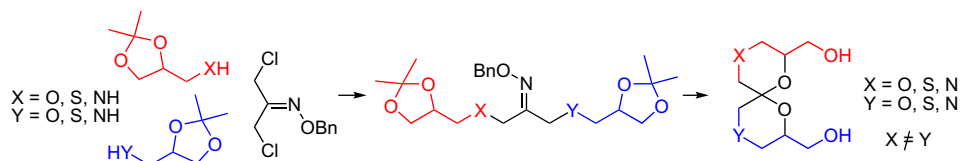
Davy Sinnaeve\*, Catherine Michaux, Johan Van hemel, Jan Vandenkerckhove, Eric Peys, Frans A.M. Borremans, Benedikt Sas, Johan Wouters, José C. Martins\*



### A flexible route to new spirodioxanes, oxathianes, and morpholines

pp 4182–4189

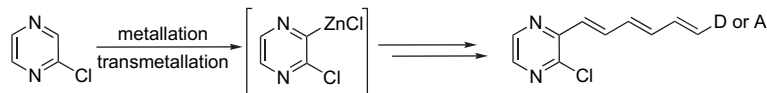
Marlène Goubert, Isabelle Canet\*, Marie-Eve Sinibaldi\*



**Push–pull structures with a pyrazine core and hexatriene chain: synthesis and light-emitting properties**

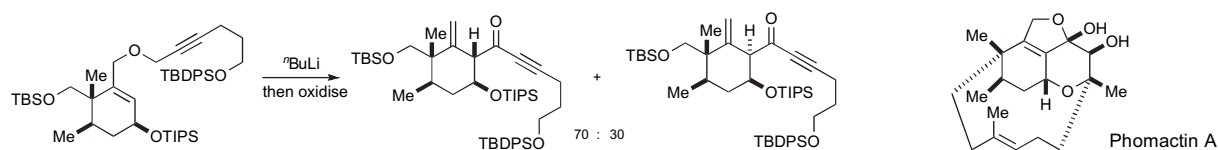
pp 4190–4200

Nordine Hebbar, Yvan Ramondenc, Gérard Plé, Georges Dupas, Nelly Plé\*

**Synthesis of precursors of phomactins using [2,3]-Wittig rearrangements**

pp 4201–4211

Peter D.P. Shapland, Eric J. Thomas\*

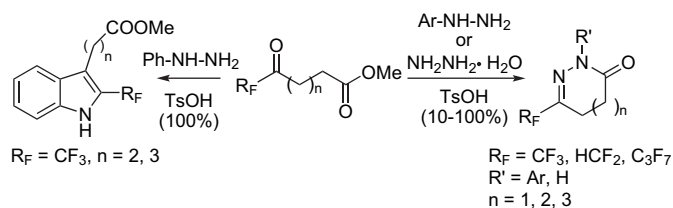


[2,3]-Wittig rearrangements have been used to prepare methylenecyclohexanes, which may be useful for the preparation of phomactins.

**Concise synthesis of ω-fluoroalkylated ketoesters. A building block for the synthesis of six-, seven-, and eight-membered fluoroalkyl substituted 1,2-diaza-3-one heterocycles**

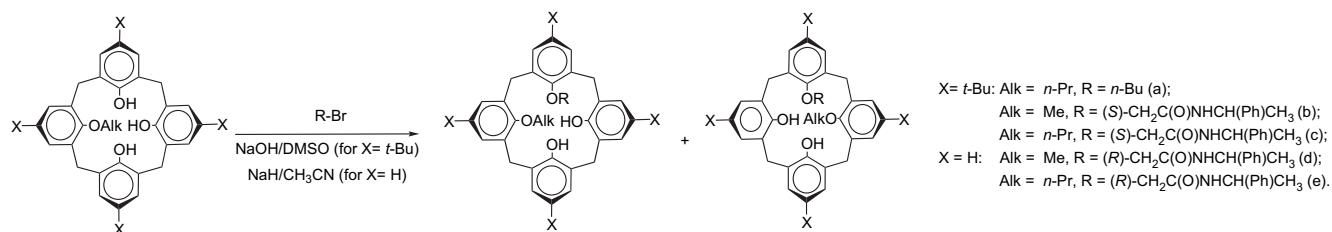
pp 4212–4219

Wen Wan, Jie Hou, Haizhen Jiang, Yangli Wang, Shizheng Zhu\*, Hongmei Deng, Jian Hao\*

**Proximal heteroalkylation of monoalkoxycalix[4]arenes in synthesis of inherently chiral molecules**

pp 4220–4227

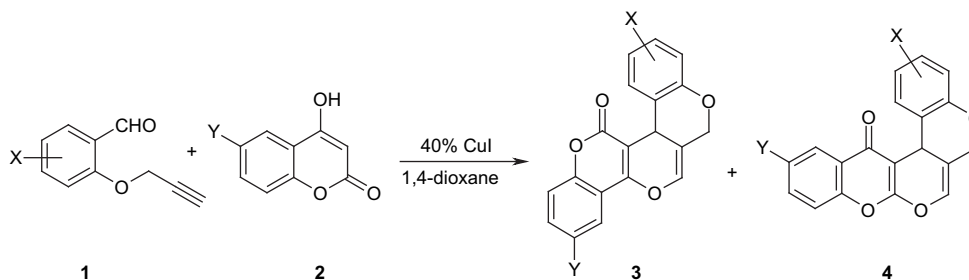
V.I. Boyko, Yu.I. Matvieiev, M.A. Klyachina, O.A. Yesypenko, S.V. Shishkina, O.V. Shishkin, V.I. Kalchenko\*



**Efficient synthesis of pyrano[2,3-c]coumarins via intramolecular domino Knoevenagel hetero-Diels–Alder reactions**

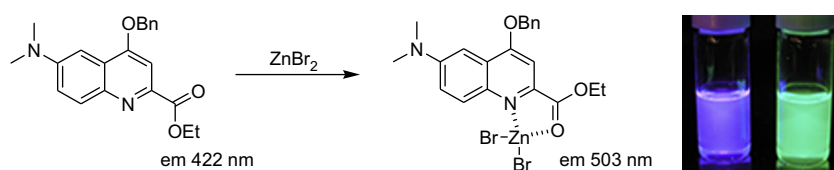
pp 4228–4234

Malihe Javan Khoshkholgh, Minoo Lotfi, Saeed Balalaie\*, Frank Rominger


**Quinolinecarboxylic acid based fluorescent molecules: ratiometric response to Zn<sup>2+</sup>**

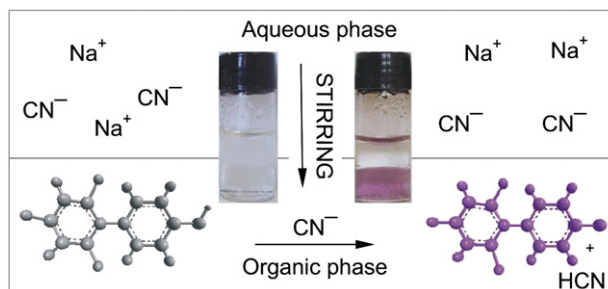
pp 4235–4238

Hisanaka Ito\*, Mai Matsuoka, Yohei Ueda, Madoka Takuma, Yoshihisa Kudo, Kazuo Iguchi


**Chromogenic anionic chemosensors based on protonated merocyanine solvatochromic dyes in trichloromethane and in trichloromethane–water biphasic system**


pp 4239–4248

Lizandra Maria Zimmermann-Dimer, Dalci Clair Reis, Clodoaldo Machado, Vanderlei Gageiro Machado\*



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 Supplementary data available via ScienceDirect



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ISSN 0040-4020