Volume 12 | Number 6 | 14 February 2014 | Pages 857–1020

Organic & Biomolecular Chemistry

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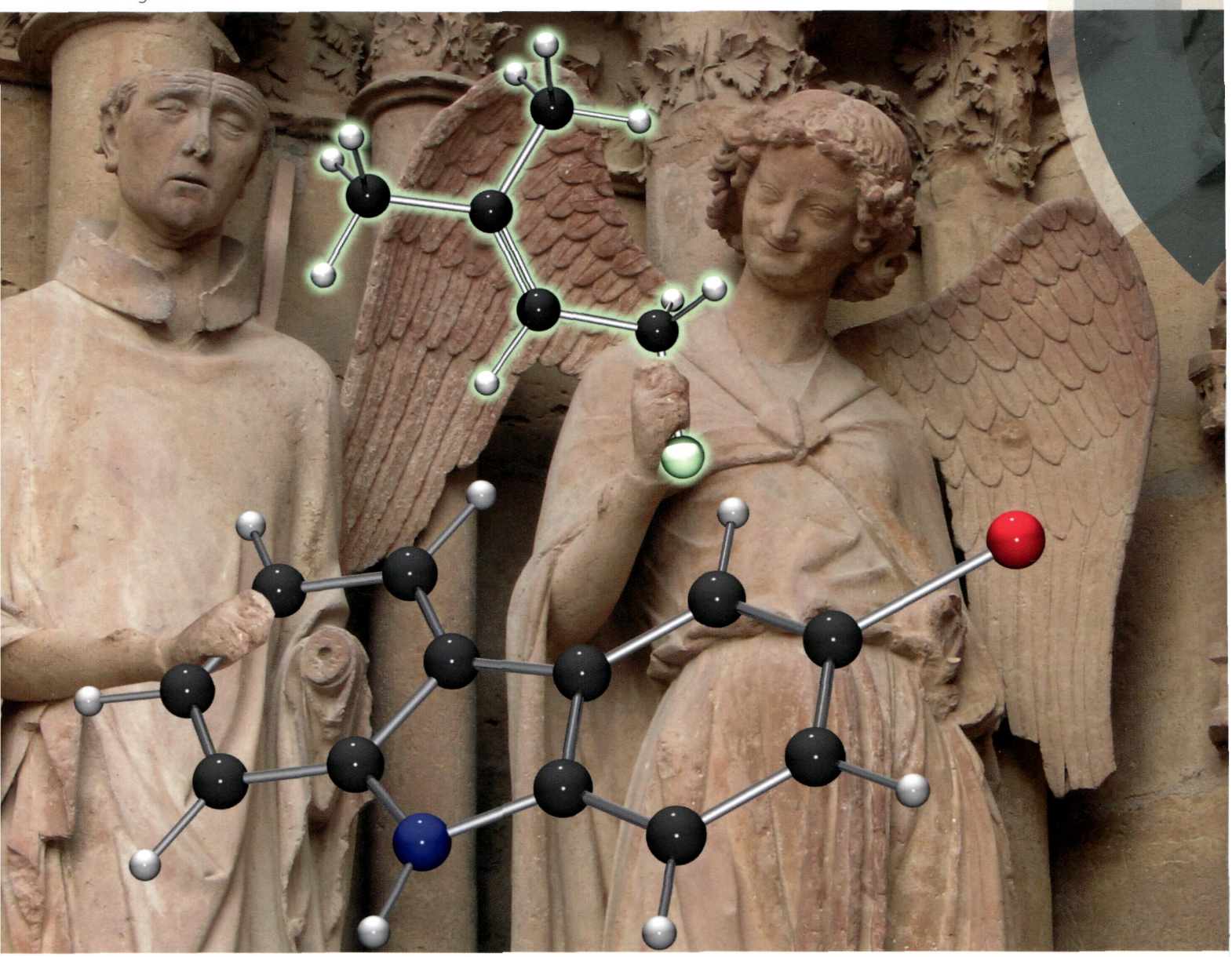

ISSN 1477-0520

ROYAL SOCIETY OF CHEMISTRY

COMMUNICATION

Hans-Joachim Knölker *et al.*

Regioselective prenylation of bromocarbazoles by palladium(0)-catalysed cross coupling – synthesis of *O*-methylsiamenol, *O*-methylmicromeline and carquinostatin A

Organic & Biomolecular Chemistry

An international journal of synthetic, physical and biomolecular organic chemistry

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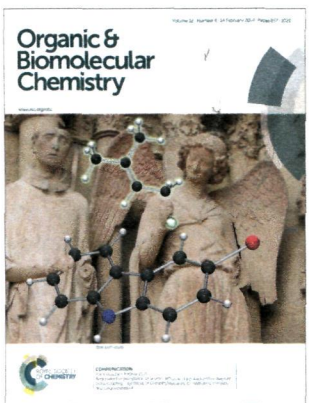
ISSN 1477-0520 CODEN OBCRAK 12(6) 857–1020 (2014)



Cover
See Hans-Joachim Knölker *et al.*, pp. 872–875.

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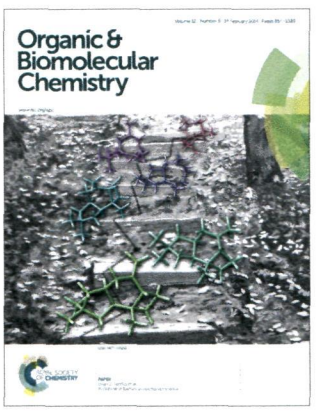

Inside cover
See Dean J. Tantillo *et al.*, pp. 887–894.

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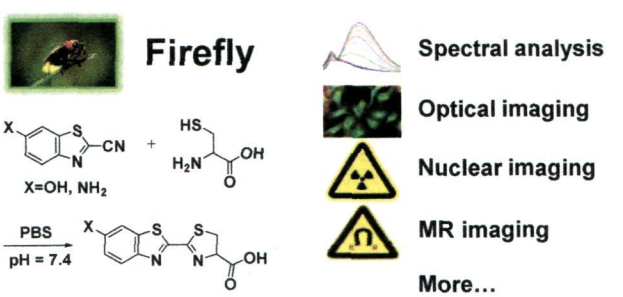
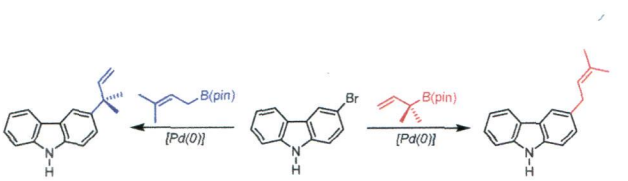
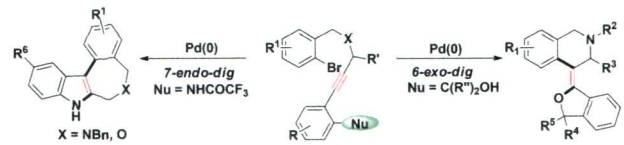
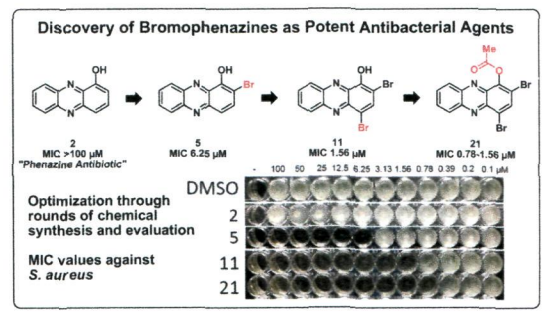
REVIEW

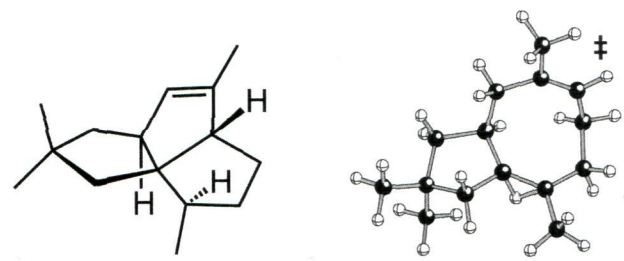


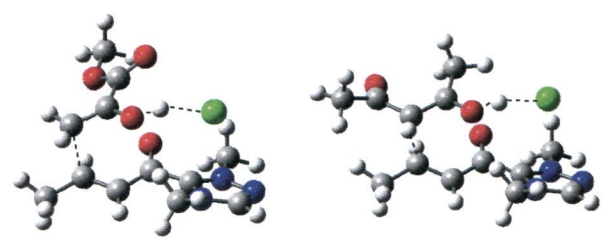
COMMUNICATIONS











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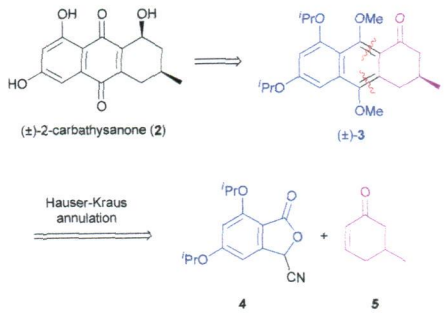
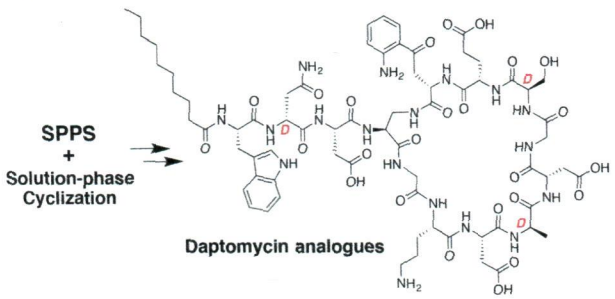


Synthesis of the 2-methylene analogue of the *HRV 3C protease inhibitor thysanone* (2-carbathysanone)

Katrin Schünemann, Daniel P. Furkert, Eun Cho Choi, Stephen Connelly, John D. Fraser, Jonathan Sperry and Margaret A. Brimble*

The synthesis of (±)-2-*carbathysanone* (**2**) *is reported using* a Hauser–Kraus annulation as the key step. A series of analogues was also synthesized using this approach and their ability to inhibit HRV 3C protease was evaluated.

913

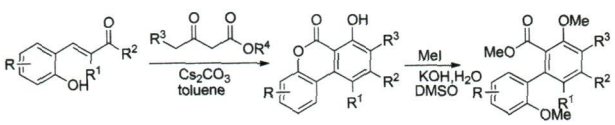


A combined solid- and solution-phase approach provides convenient access to analogues of the calcium-dependent lipopeptide antibiotics

Peter 't Hart, Laurens H. J. Kleijn, Gerjan de Bruin, Sabine F. Oppedijk, Johan Kemmink and Nathaniel I. Martin*

A synthetic route combining solid- and solution-phase techniques allows for the rapid preparation of daptomycin analogues.

919

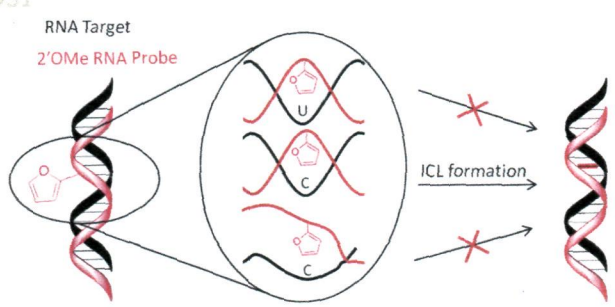


An advanced and novel one-pot synthetic method for diverse benzo[*c*]chromen-6-ones by transition-metal free mild base-promoted domino reactions of substituted 2-hydroxychalcones with β-ketoesters and its application to polysubstituted terphenyls

Tej Narayan Poudel and Yong Rok Lee*

Novel one-pot syntheses of a variety of benzo[*c*]chromen-6-one derivatives were accomplished by Cs_2CO_3-promoted reactions of 2-hydroxychalcones.

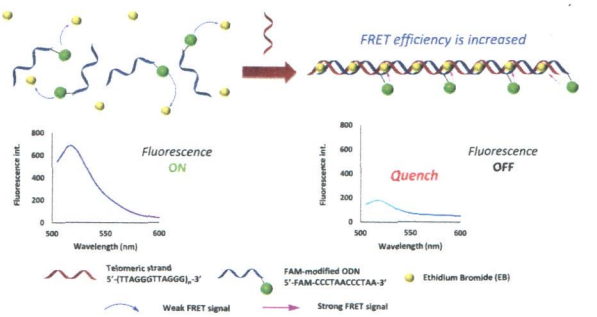
931

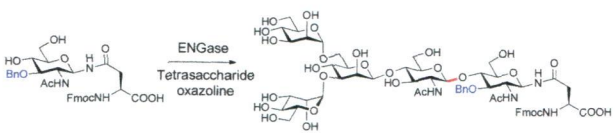


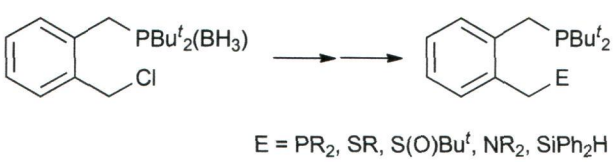
A mildly inducible and selective cross-link methodology for RNA duplexes

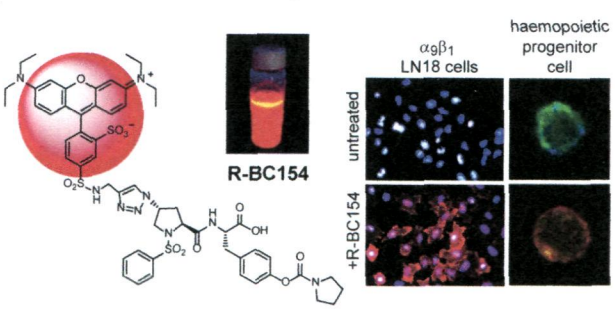
L. L. G. Carrette, E. Gyssels, J. Loncke and A. Madder*

Interstrand cross-link formation with natural RNA targets.









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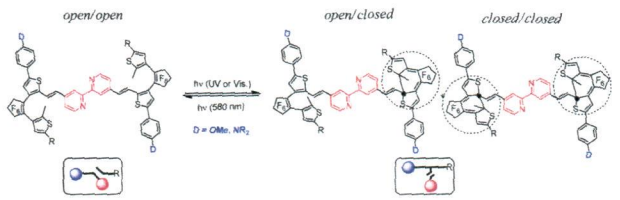
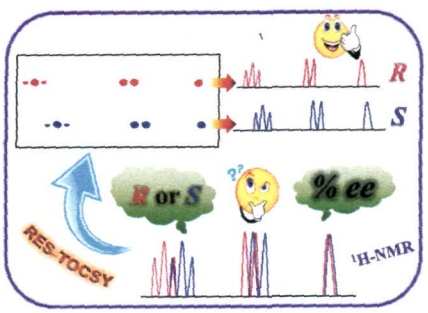


New fluorescent bis-dithienylethene (DTE)-based bipyridines as reverse interrupters: single *vs.* double photochromism

Lucie Ordronneau, Julien Boixel, Vincent Aubert, Matias S. Vidal, Sergio Moya, Pedro Aguirre, Loic Toupet, J. A. Gareth Williams, Hubert Le Bozec* and Véronique Guerchais*

The photochromic behaviour of a series of fluorescent bis-DTE-based bipyridines and their metal complexes is reported, incorporating donor and acceptor groups in the same thiophene ring.

995

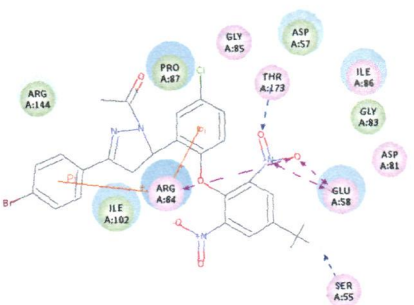


RES-TOCSY: a simple approach to resolve overlapped ^{1}H NMR spectra of enantiomers

Lokesh, Sachin Rama Chaudhari and N. Suryaprakash*

New NMR experiment for unravelling of overlapped NMR spectra.

998

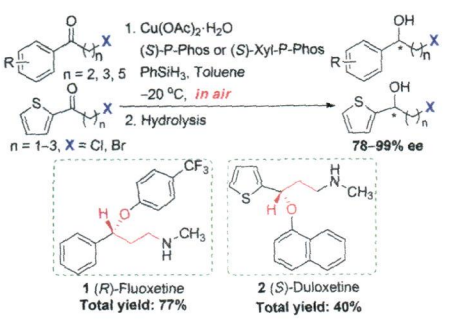


Synthesis, and antibacterial activity of novel 4,5-dihydro-1*H*-pyrazole derivatives as DNA gyrase inhibitors

Jia-Jia Liu, Juan Sun, Yun-Bin Fang, Yong-An Yang,* Rui-Hua Jiao* and Hai-Liang Zhu*

4,5-dihydropyrazole derivatives containing dinitrobenzotrifluoride moiety as potential DNA gyrase inhibitors were designed and evaluated for their antibacterial and DNA gyrase inhibitory activities. Compound **4t** was the most active antibacterial compound.

1009



Copper(II)-catalyzed enantioselective hydrosilylation of halo-substituted alkyl aryl and heteroaryl ketones: asymmetric synthesis of (*R*)-fluoxetine and (*S*)-duloxetine

Ji-Ning Zhou, Qiang Fang, Yi-Hu Hu, Li-Yao Yang, Fei-Fei Wu, Lin-Jie Xie, Jing Wu* and Shijun Li*

The developed copper-catalyzed enantioselective hydrosilylation procedure has been applied to the asymmetric synthesis of antidepressant drugs (*R*)-fluoxetine and (*S*)-duloxetine.