



Tetrahedron Vol. 67, Issue 40, 2011

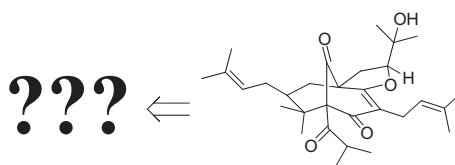
Contents

REPORT

Synthetic efforts toward [3.3.1] bridged bicyclic phloroglucinol natural products

pp 7631–7666

Jon T. Njardarson

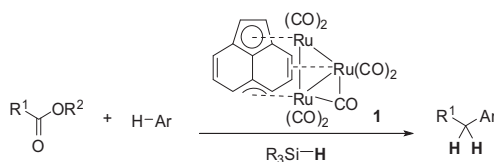


ARTICLES

Hydrosilanes are not always a reducing reagent: a ruthenium-catalyzed introduction of primary alkyl groups to electron-rich aromatic rings using esters as a source of the alkyl groups

pp 7667–7672

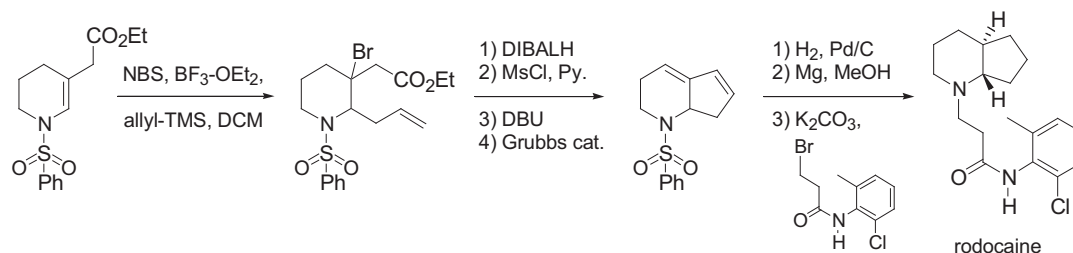
Hideo Nagashima*, Yuichi Kubo, Mitsunobu Kawamura, Takashi Nishikata, Yukihiro Motoyama



Synthesis of rodocaine

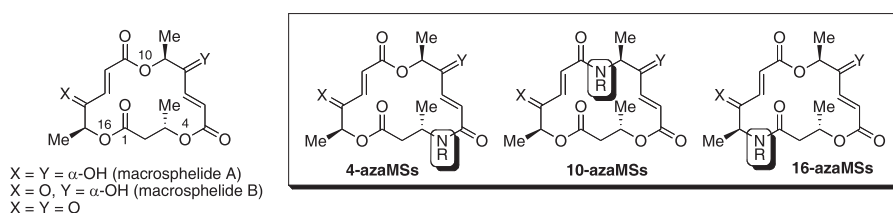
pp 7673–7680

Meng-Yang Chang*, Hang-Yi Tai, Yeh-Long Chen

**Syntheses of aza-analogues of macrophelides via RCM strategy and their biological evaluation**

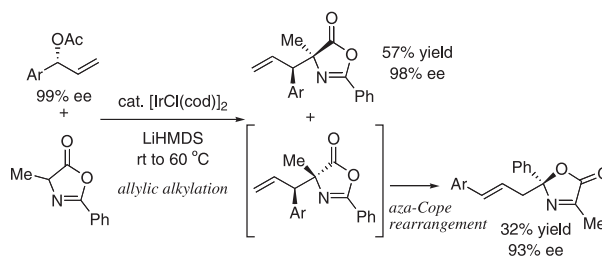
pp 7681–7685

Kenji Sugimoto, Yuta Kobayashi, Ayana Hori, Takashi Kondo, Naoki Toyooka, Hideo Nemoto, Yuji Matsuya*

**Iridium-catalyzed allylic alkylation of monosubstituted allylic acetates with azlactone, and separation of diastereoisomers by sequential aza-Cope rearrangement**

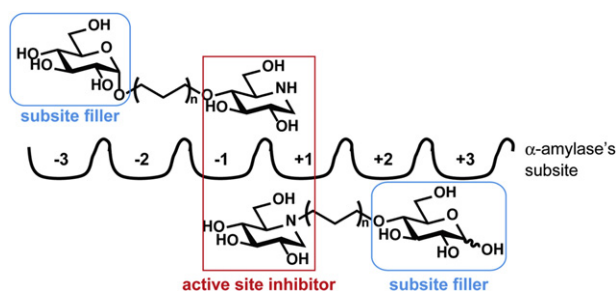
pp 7686–7691

Motoi Kawatsura*, Hiroaki Tsuji, Kenta Uchida, Toshiyuki Itoh*

**Synthesis and α -amylase inhibitory activity of glucose–deoxynojirimycin conjugates**

pp 7692–7702

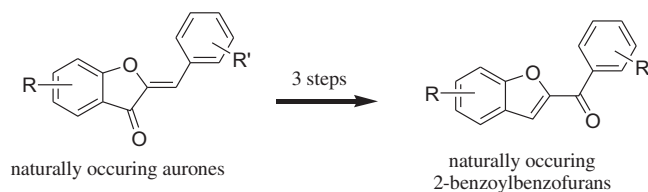
Eisuke Kato, Naoya Iwano, Akihiko Yamada, Jun Kawabata*



A straightforward conversion of aurones to 2-benzoylbenzofurans: transformation of one class of natural products into another

pp 7703–7707

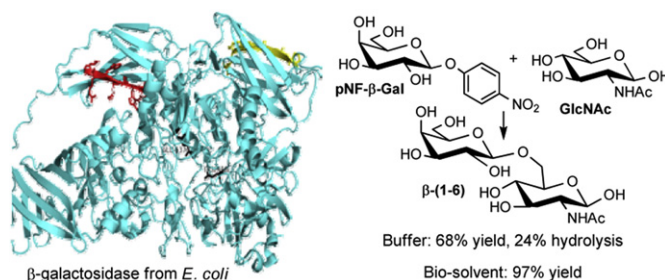
Samir Yahiaoui, Marine Peuchmaur, Ahcène Boumendjel*



Improved synthesis of disaccharides with *Escherichia coli* β -galactosidase using bio-solvents derived from glycerol

pp 7708–7712

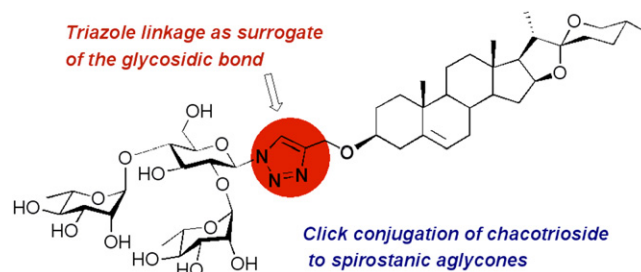
María Pérez-Sánchez, Álvaro Cortés Cabrera, Héctor García-Martín, J. Vicent Sinisterra, José I. García, María J. Hernáiz*



'Click' synthesis of triazole-based spirostan saponin analogs

pp 7713–7727

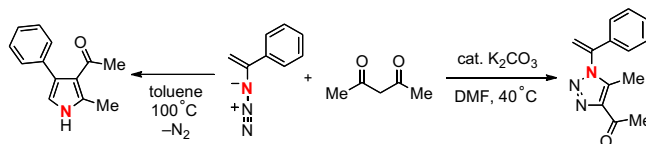
Karell Pérez-Labrada, Ignacio Brouard*, Cercis Morera, Francisco Estévez, Jaime Bermejo, Daniel G. Rivera*



Orthogonal synthesis of pyrroles and 1,2,3-triazoles from vinyl azides and 1,3-dicarbonyl compounds

pp 7728–7737

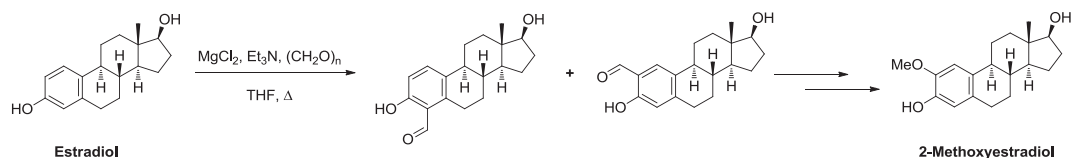
Eileen Pei Jian Ng, Yi-Feng Wang, Benjamin Wei-Qiang Hui, Guillaume Lapointe, Shunsuke Chiba*



ortho-Formylation of estrogens. Synthesis of the anti-cancer agent 2-methoxyestradiol

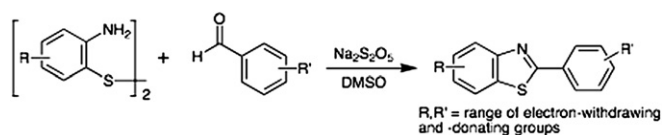
pp 7738–7742

Øyvind W. Akselsen, Trond Vidar Hansen*

**An efficient synthetic route to biologically relevant 2-phenylbenzothiazoles substituted on the benzothiazole ring**

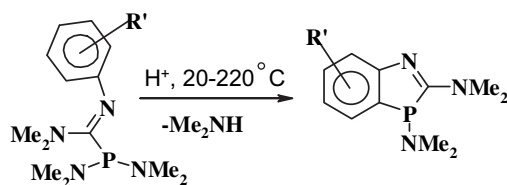
pp 7743–7747

Ashley A. Weekes, Mark C. Bagley, Andrew D. Westwell*

**Cyclization of C-phosphorylated (P^{III}) arylformamidines to 3H-1,3-benzazaphospholes**

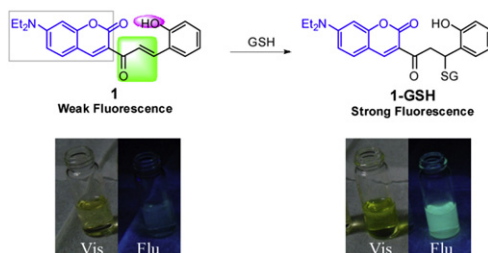
pp 7748–7758

Anatoliy Marchenko, Heorgii Koidan, Anastasiya Hurieva, Anatoliy Merkulov, Aleksandr Pinchuk, Aleksandr Yurchenko, Alexander B. Rozhenko, Peter G. Jones, Holger Thönnessen, Aleksandr Kostyuk*

**Fluorescence turn-on probe for biothiols: intramolecular hydrogen bonding effect on the Michael reaction**

pp 7759–7762

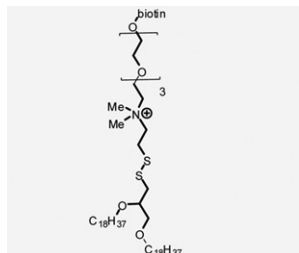
Hyun-Joon Ha, Doo-Ha Yoon, Seokan Park, Hae-Jo Kim*



Synthesis of novel amphiphilic conjugates with a biological recognition function for developing targeted triggered liposomal delivery systems

pp 7763–7774

Nicolai Brodersen, Anna Arbuzova, Andreas Herrmann, Holger Egger, Jürgen Liebscher*

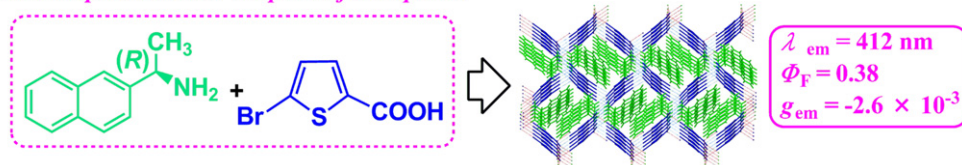


Several novel amphiphilic lipid derivatives were synthesized consisting of a lipid anchor connected to the hydrophilic moiety via a disulfide or glycoside bond and biotin linked to the hydrophilic part. Such conjugates can be incorporated into biocompatible phospholipid membranes and are promising candidates for building targeted, triggered drug delivery carriers.

**Chiral supramolecular thiophene fluorophore consisting of thiophenecarboxylic acid derivatives**

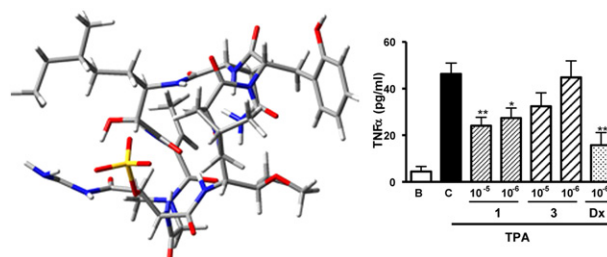
pp 7775–7779

Takaya Kimoto, Naoki Shiota, Takafumi Kinuta, Tomohiro Sato, Nobuo Tajima, Hayato Tokutome, Reiko Kuroda, Michiya Fujiki, Yoshio Matsubara, Yoshitane Imai*

Chiral supramolecular thiophene fluorophore**Perthamides C–F, potent human antipsoriatic cyclopeptides**

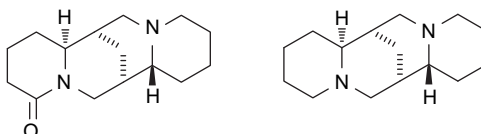
pp 7780–7786

Carmen Festa, Simona De Marino, Valentina Sepe, Maria Valeria D'Auria, Giuseppe Bifulco, Rosa Andrés, Maria Carmen Terencio, Miguel Payá, Cécile Debitus, Angela Zampella*

**Simple and highly efficient preparation and characterization of (–)-lupanine and (+)-sparteine**

pp 7787–7793

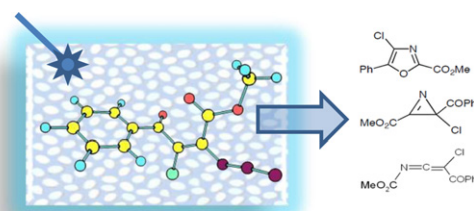
Anna K. Przybył*, Maciej Kubicki



Structure and photochemical behaviour of 3-azido-acrylophenones: a matrix isolation infrared spectroscopy study

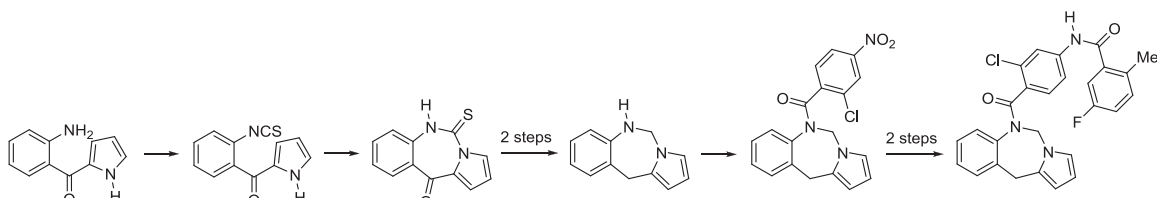
pp 7794–7804

Susy Lopes, Cláudio M. Nunes, Andrea Gómez-Zavaglia, Teresa M.V.D. Pinho e Melo*, Rui Fausto*

**Synthesis of a novel pyrrolo[1,2-c][1.3]benzodiazepine analogue of VPA-985**

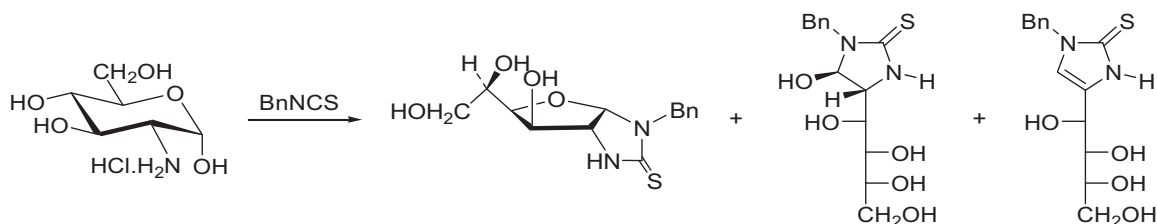
pp 7805–7810

Georgios Rotas, Athanasios Kimbaris, George Varvounis*

**A bioinspired look at the glucosinolate metabolic pathway. Structural insights into the reaction of benzyl isothiocyanate and D-glucosamine**

pp 7811–7820

Guadalupe Silvero*, Martín Ávalos, Reyes Babiano, Pedro Cintas, José L. Jiménez, Juan C. Palacios

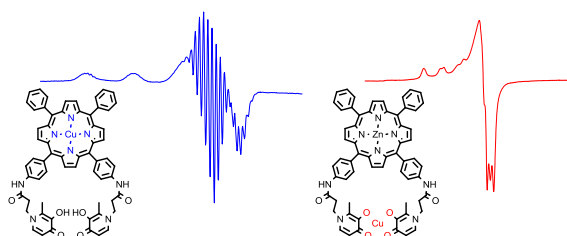


All products and reaction mechanism of BITC (an inhibitor of carcinogenesis from glucosinolate hydrolysis) with D-glucosamine (an anti-inflammatory agent) have been characterized.

**Use of a porphyrin platform and 3,4-HPO chelating units to synthesize ligands with N₄ and O₄ coordination sites**

pp 7821–7828

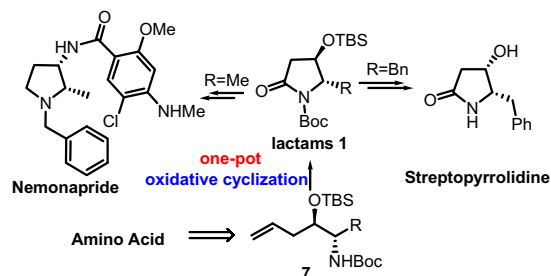
Ana M.G. Silva*, Andreia Leite, Pablo Gonzalez, M. Rosário M. Domingues, Paula Gameiro, Baltazar de Castro, Maria Rangel*



A facile approach to *trans*-4,5-pyrrolidine lactam and application in the synthesis of nemonapride and streptopyrrolidine

pp 7829–7837

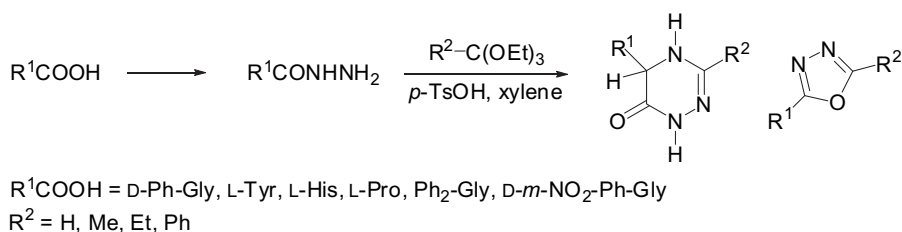
Wei Huang, Jing-Yi Ma, Mu Yuan, Long-Fei Xu, Bang-Guo Wei*



The reaction of optically active α -aminocarboxylic acid hydrazides with triethyl *ortho*esters

pp 7838–7845

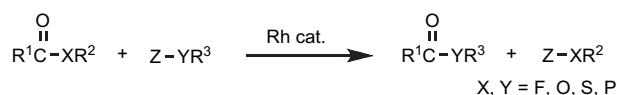
Agnieszka Kudelko*, Wojciech Zieliński, Krzysztof Ejsmont



Equilibrium shift in the rhodium-catalyzed acyl transfer reactions

pp 7846–7859

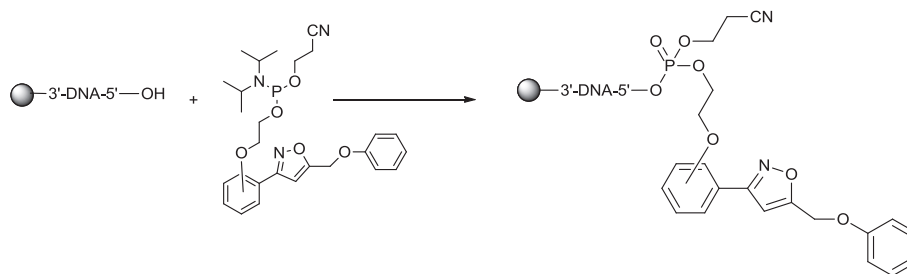
Mieko Arisawa*, Yui Igarashi, Haruki Kobayashi, Toru Yamada, Kentaro Bando, Takuya Ichikawa, Masahiko Yamaguchi*



Conjugation at the oligonucleotide level based on isoxazole phosphoramidites generated by click chemistry

pp 7860–7865

Colin Freeman, Aisling Ni Cheallaigh, Frances Heaney*



The versatility of Huisgen cycloaddition for provision of DNA-conjugates has been extended; in a novel approach isoxazole conjugated oligodeoxyribonucleotides have been constructed by solid phase phosphoramidite coupling of isoxazole derivatives previously generated by click chemistry.



*Corresponding author

Supplementary data available via ScienceDirect



Full text of this journal is available, on-line from **ScienceDirect**. Visit www.sciencedirect.com for more information.

Abstracted/indexed in: AGRICOLA, Beilstein, BIOSIS Previews, CAB Abstracts, Chemical Abstracts, Current Contents: Life Sciences, Current Contents: Physical, Chemical and Earth Sciences, Current Contents Search, Derwent Drug File, Ei compendex, EMBASE/Excerpta Medica, Medline, PASCAL, Research Alert, Science Citation Index, SciSearch. Also covered in the abstract and citation database SCOPUS®. Full text available on ScienceDirect®



ELSEVIER

ISSN 0040-4020