

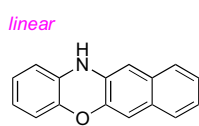
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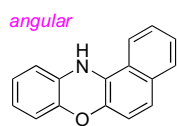
Benzophenoxazine-based fluorescent dyes for labeling biomolecules

pp 11021–11037

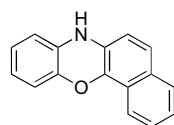
Jiney Jose and Kevin Burgess*



benzo[b]phenoxazine

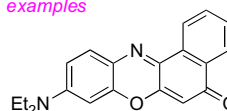


benzo[a]phenoxazine

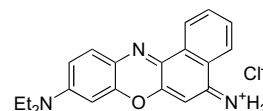


benzo[c]phenoxazine

examples



Nile Red



Nile Blue

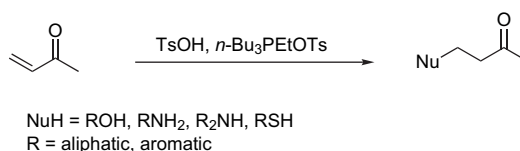
Syntheses and spectroscopic properties of benzophenoxazine fluorescent dyes are reviewed from the perspective of their potential applications as probes in biotechnology, especially with respect to intracellular imaging.

ARTICLES

The ionic liquid ethyltri-*n*-butylphosphonium tosylate as solvent for the acid-catalysed hetero-Michael reaction

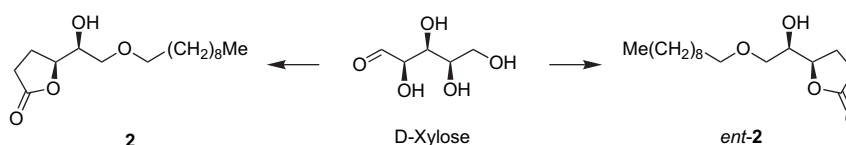
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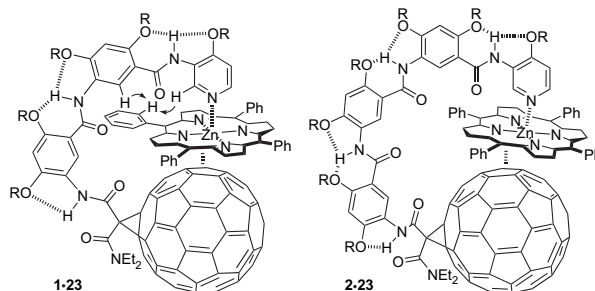
Velimir Popsavin,* Ivana Krstić, Mirjana Popsavin, Bojana Srećo, Goran Benedeković, Vesna Kojić and Gordana Bogdanović



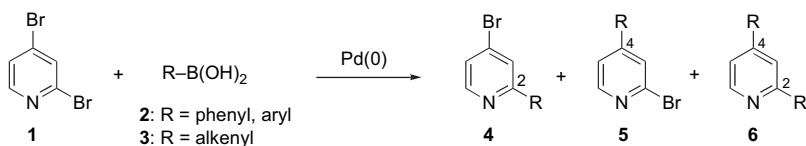
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Zong-Quan Wu, Chang-Zhi Li, Dai-Jun Feng, Xi-Kui Jiang and Zhan-Ting Li*

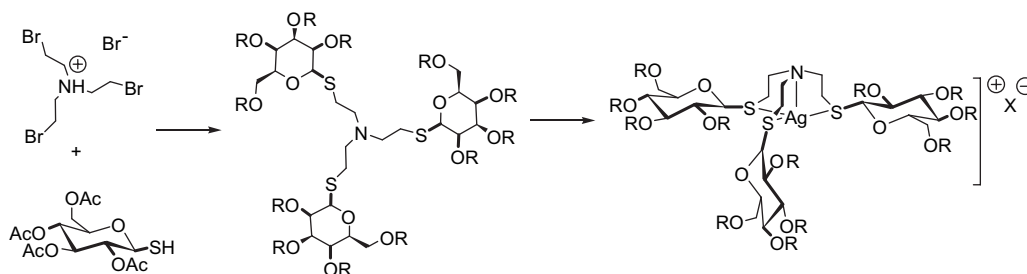
**Regioselectivity in alkenyl(aryl)-heteroaryl Suzuki cross-coupling reactions of 2,4-dibromopyridine. A synthetic and mechanistic study**

Cristina Sicre, J.-Lorenzo Alonso-Gómez and M. Magdalena Cid*

**Silver(I) complexes based on novel tripodal thioglycosides: synthesis, structure and antimicrobial activity**

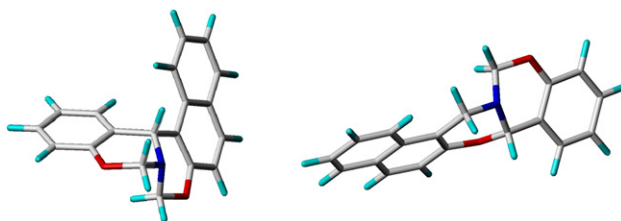
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Michael Gottschaldt*, Annett Pfeifer, Daniel Koth, Helmar Görls, Hans-Martin Dahse, Ute Möllmann, Makoto Obata and Shigenobu Yano

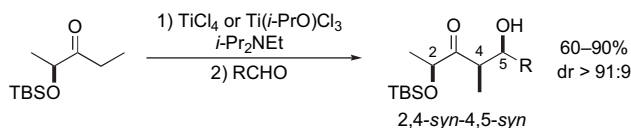
**Synthesis and conformational analysis of naphth[1',2':5,6][1,3]oxazino[3,2-c][1,3]benzoxazine and naphth[1',2':5,6][1,3]oxazino[3,4-c][1,3]benzoxazine derivatives**

pp 11081–11089

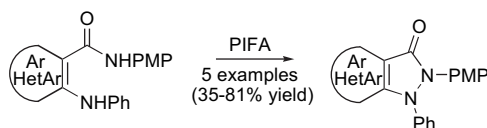
Matthias Heydenreich, Andreas Koch, Sabrina Klod, István Szatmári, Ferenc Fülöp and Erich Kleinpeter*



Stereoselective titanium-mediated aldol reactions of (*S*)-2-*tert*-butyldimethylsilyloxy-3-pentanone pp 11090–11099
Joaquim Nebot, Sergi Figueras, Pedro Romea,* Fèlix Urpí* and Yining Ji



An advantageous synthesis of new indazolone and pyrazolone derivatives pp 11100–11105
Arkaitz Correa, Imanol Tellitu,* Esther Domínguez* and Raul SanMartin

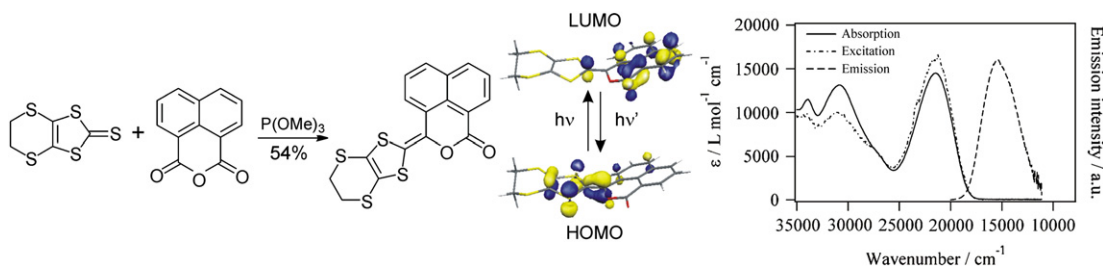


The title compounds are obtained by an intramolecular PIFA-mediated N–N bond construction.



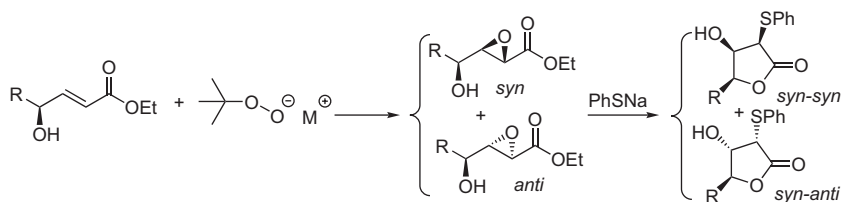
Preparation and characterization of 3-(4,5-ethylenedithio-1,3-dithiol-2-ylidene)naphthopyranone: a luminescent redox-active donor–acceptor compound pp 11106–11111

Stefan Dolder, Shi-Xia Liu,* Xavier Guégano, Mihail Atanasov, Claude A. Daul, Claudia Leiggener, Andreas Hauser, Antonia Neels and Silvio Decurtins



Diastereoselective synthesis of γ -hydroxy α,β -epoxyesters and their conversion into β -hydroxy α -sulfenyl γ -butyrolactones pp 11112–11123

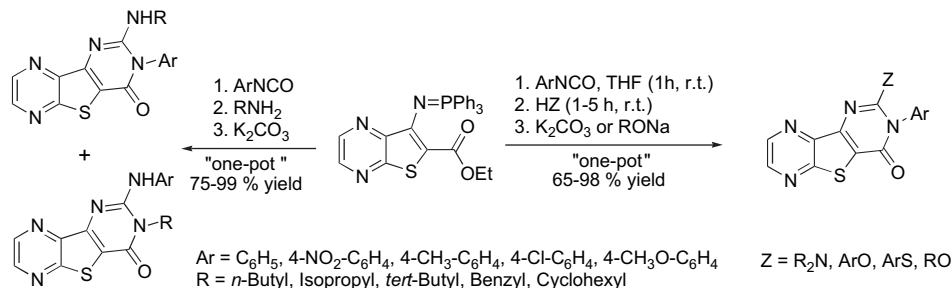
Santiago Rodríguez,* María Kneeteman, Javier Izquierdo, Irakusne López, Florenci V. González* and Gabriel Peris



A practical one-pot procedure for the synthesis of pyrazino[2',3':4,5]thieno[3,2-d]pyrimidinones by a tandem aza-Wittig/heterocumulene-mediated annulation strategy

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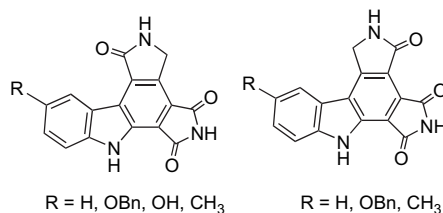
Gerardo Blanco, Natalia Seguí, José M. Quintela,* Carlos Peinador,* Marcos Chas and Rosa Toba



Synthesis, in vitro antiproliferative activities, and Chk1 inhibitory properties of dipyrrolo-[3,4-*a*:3,4-*c*]carbazole-triones

pp 11136–11144

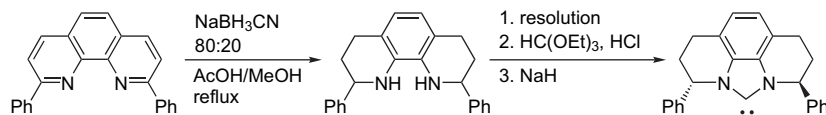
Elisabeth Conchon, Fabrice Anizon, Roy M. Golsteyn, Stéphane Léonce, Bruno Pfeiffer and Michelle Prudhomme*



Reduction of substituted 1,10-phenanthrolines as a route to rigid chiral benzimidazolylienes

pp 11145–11157

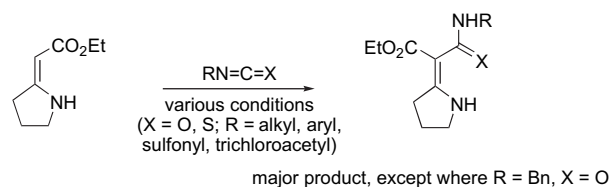
Costa Metallinos,* Fred B. Barrett, Yao Wang, Shufen Xu and Nicholas J. Taylor



Acylation of alkylidenepyrrolidines with heterocumulenes—a reinvestigation

pp 11158–11164

Christopher D. Davies, Mark C. Elliott* and John L. Wood

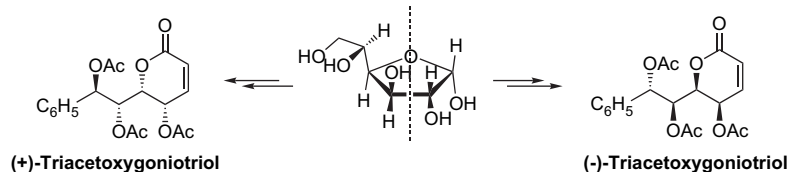


The title reactions give predominantly the C-acyl products rather than the previously-reported N-acyl products.

RCM/PCC oxidation strategy for synthesis of functionalized cyclic α,β -unsaturated lactones: synthesis of (+)-triacetoxynoniatriol and its diastereomers

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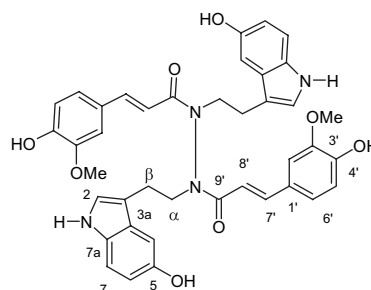
G. S. C. Srikanth,* Urlam Murali Krishna, Girish K. Trivedi and John F. Cannon

**Montamine, a unique dimeric indole alkaloid, from the seeds of *Centaurea montana* (Asteraceae), and its in vitro cytotoxic activity against the CaCo2 colon cancer cells**

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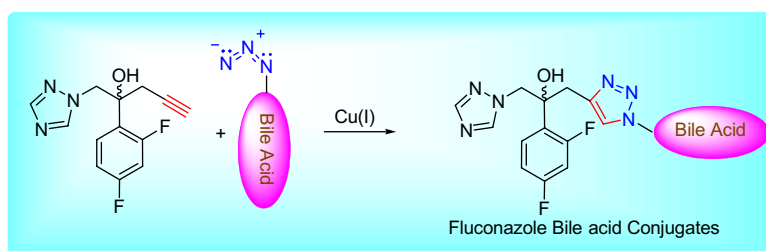
Mohammad Shoeb, Stephen M. MacManus, Marcel Jaspars, Jioji Trevidu, Lutfun Nahar, Paul Kong-Thoo-Lin and Satyajit D. Sarker*

Montamine, a unique dimeric indole alkaloid, isolated from the seeds of *Centaurea montana*, displayed significant in vitro anticancer activity in the MTT assay using the CaCo2 colon cancer cell line ($IC_{50}=43.9 \mu M$).

**Design and synthesis of fluconazole/bile acid conjugate using click reaction**

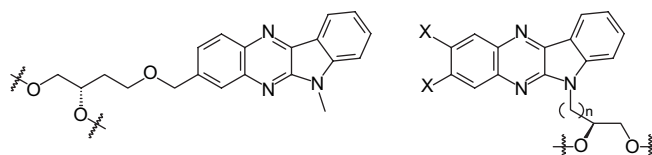
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Vandana S. Pore,* Nilkanth G. Aher, Manish Kumar and Praveen K. Shukla

**Intercalating nucleic acids (INAs) containing insertions of 6*H*-indolo[2,3-*b*]quinoxaline**

pp 11187–11199

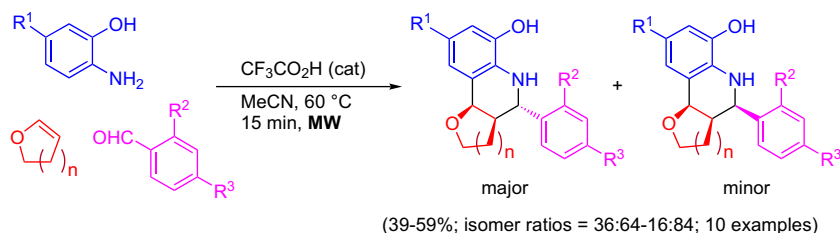
Michael C. Wamberg, Allam A. Hassan, Andrew D. Bond and Erik B. Pedersen*



Acid-mediated three-component aza-Diels–Alder reactions of 2-aminophenols under controlled microwave heating for synthesis of highly functionalized tetrahydroquinolines. Part 9: Chemistry of aminophenols

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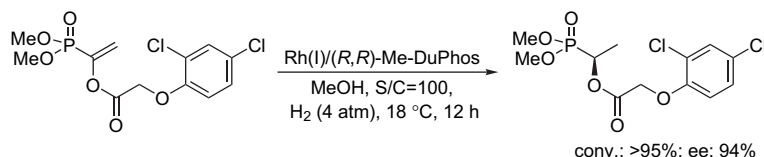
Xinglong Xing, Jinlong Wu and Wei-Min Dai*



Efficient catalytic asymmetric synthesis of α -substituted phenyloxyacetyloxy and aroyloxy phosphonates

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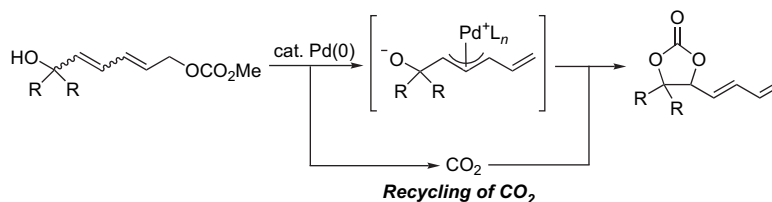
Hui Liu, Yong-Gui Zhou, Zheng-Kun Yu, Wen-Jing Xiao,* Sheng-Hua Liu and Hong-Wu He



Palladium-catalyzed carbon dioxide elimination–fixation reaction of 6-methoxycarbonyloxy-2,4-hexadien-1-ols

pp 11218–11226

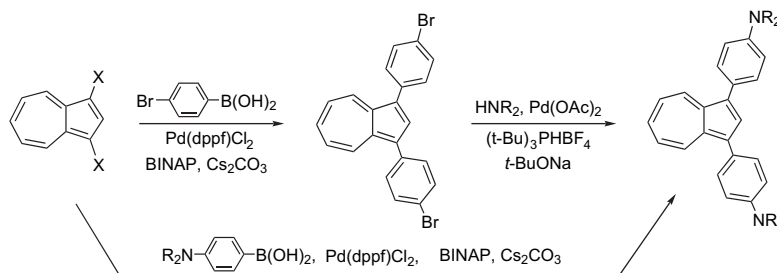
Masahiro Yoshida,* Yusuke Ohsawa and Masataka Ihara*



Synthesis of *N,N,N',N'*-tetrasubstituted 1,3-bis(4-aminophenyl)azulenes and their application to a hole-injecting material in organic electroluminescent devices

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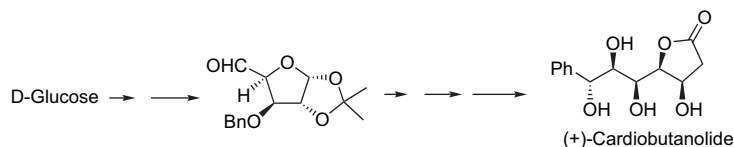
Nguyen Chung Thanh, Masamichi Ikai,* Takanori Kajioka, Hisayoshi Fujikawa, Yasunori Taga, Yanmei Zhang, Satoshi Ogawa, Hiroko Shimada, Yosuke Miyahara, Shigeyasu Kuroda and Mitsunori Oda*



Asymmetric synthesis of (+)-cardiobutanolide

pp 11240–11244

Ashish Garg, Ravi P. Singh and Vinod K. Singh*

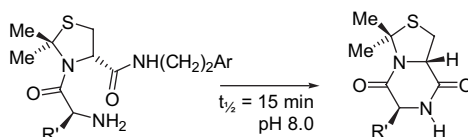


A formal total synthesis of (+)-cardiobutanolide has been accomplished from D-glucose, a readily available precursor.

Effects of steric bulk and stereochemistry on the rates of diketopiperazine formation from *N*-aminoacyl-2,2-dimethylthiazolidine-4-carboxamides (Dmt dipeptide amides)—a model for a new prodrug linker system

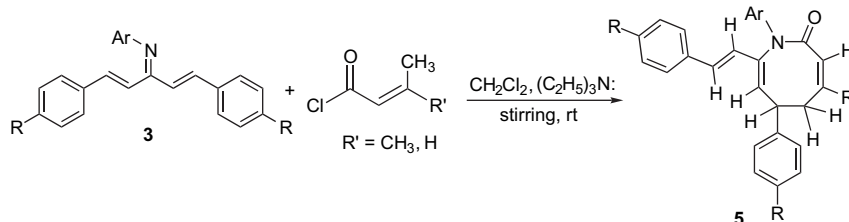
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Ghadeer A. R. Y. Suaifan, Mary F. Mahon, Tawfiq Arafat and Michael D. Threadgill*


Tandem [2+2] cycloaddition and Cope rearrangement in reactions of cross-conjugated azatrienes with conjugated ketenes: a facile single step synthesis of novel azocinone derivatives

pp 11267–11273

Parvesh Singh, Gaurav Bhargava and Mohinder P. Mahajan*

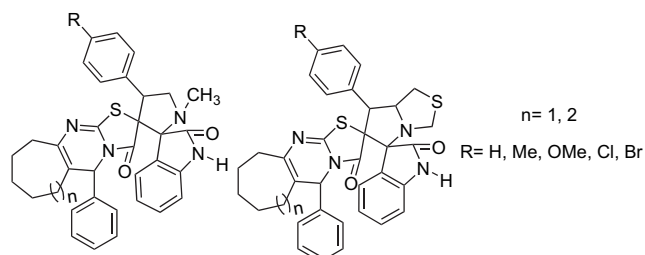


A facile single step synthesis of novel azocinone derivatives involving tandem [2+2] cycloaddition and Cope rearrangement in the reactions of cross-conjugated azatrienes with vinyl/isopropenyl ketenes supported by theoretical calculations, is reported.

Synthesis of dispirooxindolecycloalka[*d*]pyrimidino[2,3-*b*]-thiazole pyrrolidine/thiapyrrolizidine ring systems

pp 11274–11281

Mahalingam Poornachandran and Ragavachary Raghunathan*



*Corresponding author

 Supplementary data available via ScienceDirect



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