

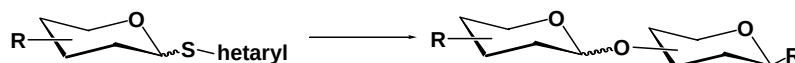
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### REPORT

#### Synthesis and role of glycosylthio heterocycles in carbohydrate chemistry

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E. S. H. El Ashry,\* L. F. Awad and A. I. Atta



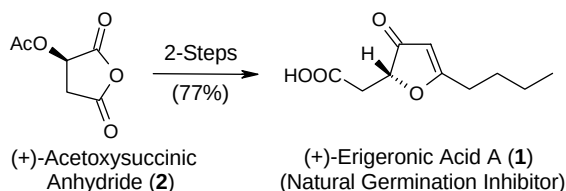
Synthesis and potential of glycosylthio heterocycles in carbohydrate chemistry have been reviewed.

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#### A facile two-step chemoenzymatic access to natural germination inhibitor (+)-erigeronic acid A

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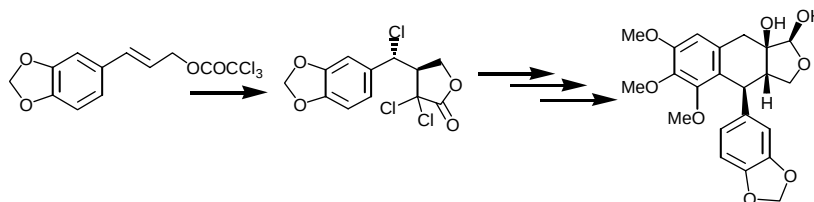
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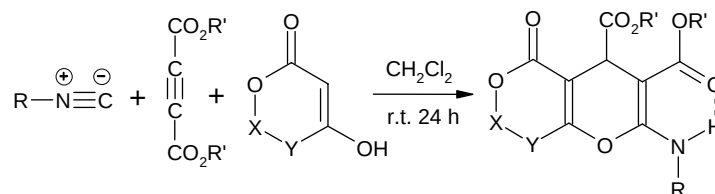
Chris D. Edlin, James Faulkner, Madeleine Helliwell, Christopher K. Knight, Jeremy Parker, Peter Quayle\* and James Raftery



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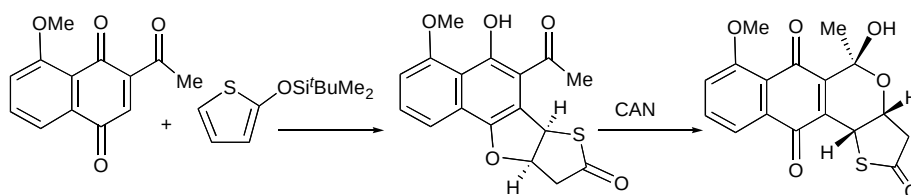
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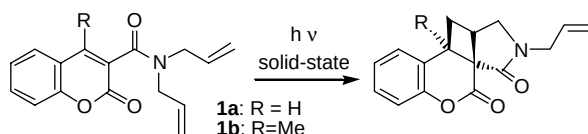
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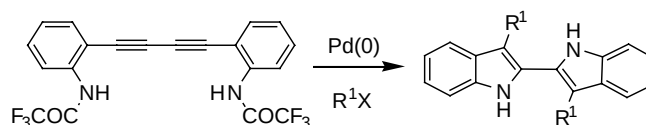
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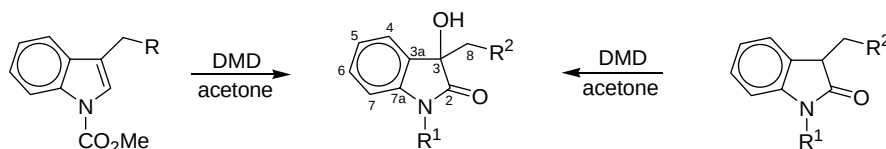
Giorgio Abbiati, Antonio Arcadi,\* Egle Beccalli, Gabriele Bianchi, Fabio Marinelli and Elisabetta Rossi



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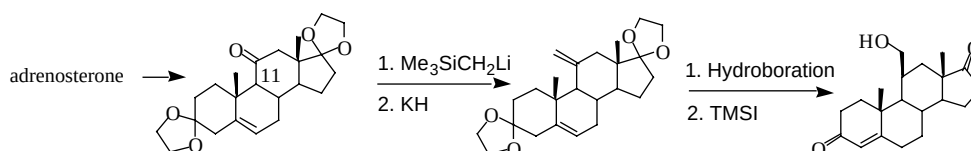
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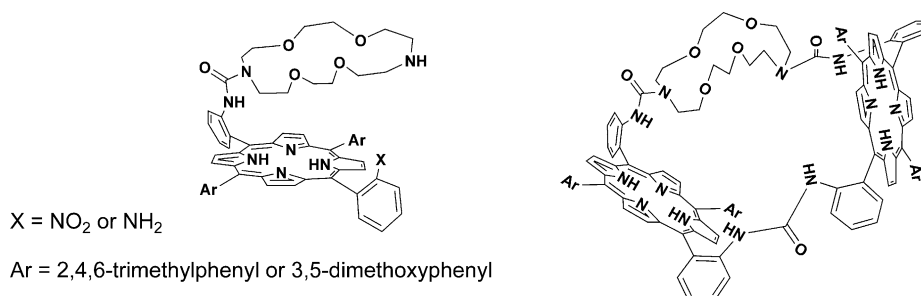
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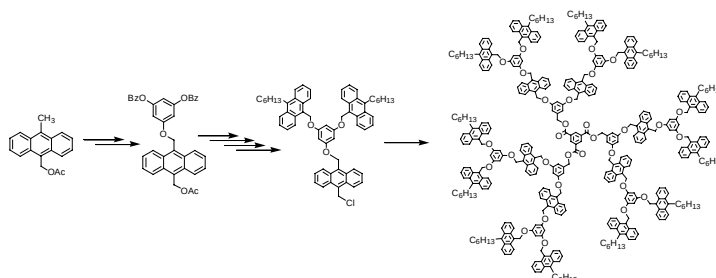
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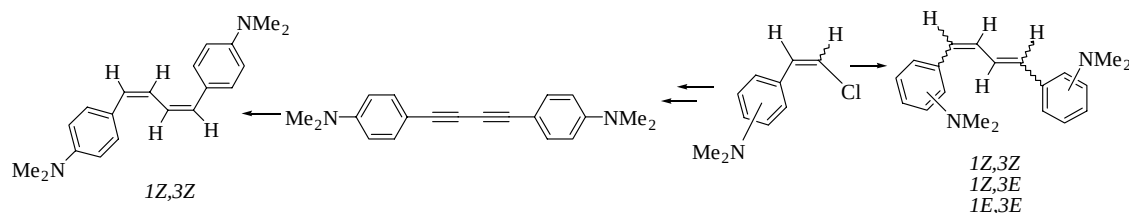
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## Stereospecific synthesis of conjugated (1*E*,3*E*)- and (1*Z*,3*Z*)-1,4-di(*n*-*N,N*-dimethylaminophenyl)-1,3-butadienes from 2-chloro-1-(*n*-*N,N*-dimethylaminophenyl)ethenes: fluorescence properties

J. Gonzalo Rodriguez,\* J. Luis Tejedor, Angel Rumbero and Laureano Canoira

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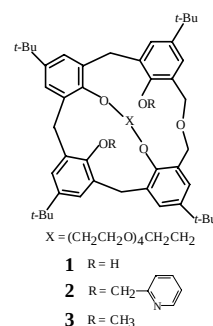


## Synthesis, NMR characterization and ion binding properties of 1,3-bridged *p*-*tert*-butyldihomooxalix[4]crown-6 bearing pyridyl pendant groups

Paula M. Marcos\* and José R. Ascenso

pp 3081–3088

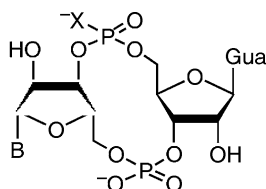
A new dihomooxalix[4]crown-6 (**2**) was synthesized and isolated in a cone conformation in solution at rt, as established by NMR ( $^1\text{H}$ ,  $^{13}\text{C}$  and NOESY). The binding properties of **2** towards alkali, alkaline earth, transition and heavy metal cations have been assessed by phase transfer and proton NMR titration experiments. The results are compared to those obtained with calixcrowns **1** and **3**.



## Synthesis of cyclic bis(3'-5')diguanilylic acid (*c*-di-GMP) analogs

Mamoru Hyodo, Yumi Sato and Yoshihiro Hayakawa\*

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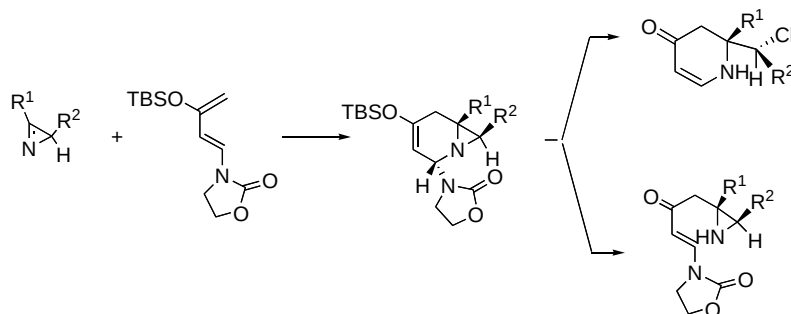


B = Gua, X = S; B = Ade, X = O; B = Ino, X = O

## Diels–Alder cycloaddition of electrophilic 2*H*-azirines with 3-(3-(*tert*-butyldimethylsilyloxy)buta-1,3-dienyl)oxazolidin-2-ones. Treatment of the cycloadducts under acidic conditions

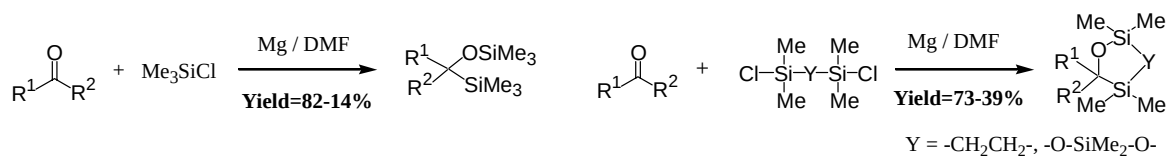
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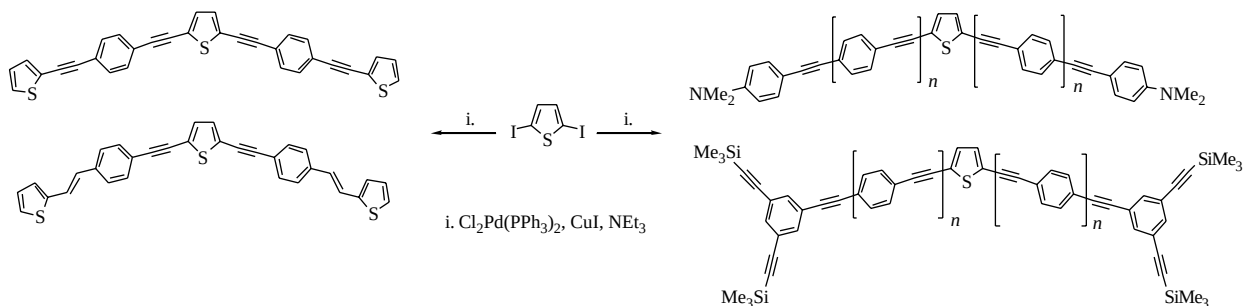
Tetsuro Uchida, Yoshio Kita, Hirofumi Maekawa and Ikuzo Nishiguchi\*



## Synthesis of conjugated 2 and 2,5-(ethenyl) and (ethynyl)phenylethynyl thiophenes: fluorescence properties

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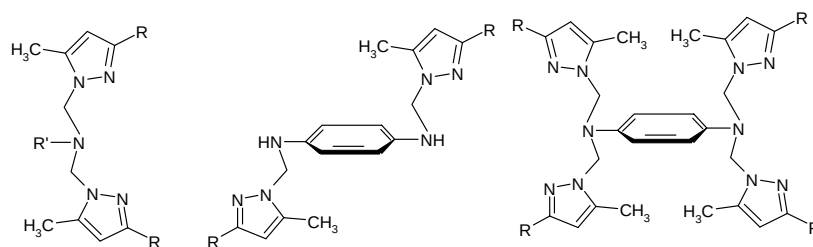
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## Synthesis of *N,N'*-bis and *N,N,N',N'*-tetra-[(3,5-di-substituted-1-pyrazolyl)methyl]-*para*-phenylene-diamines: new candidate ligands for metal complex wires

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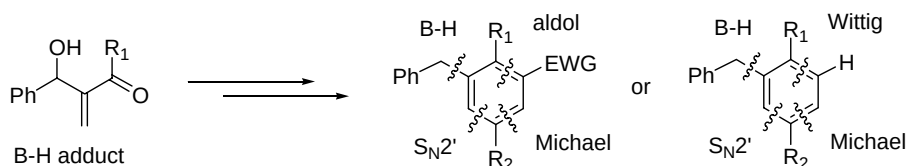
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## Regioselective synthesis of polysubstituted benzenes from Baylis–Hillman adducts via [4 + 2] annulation protocol

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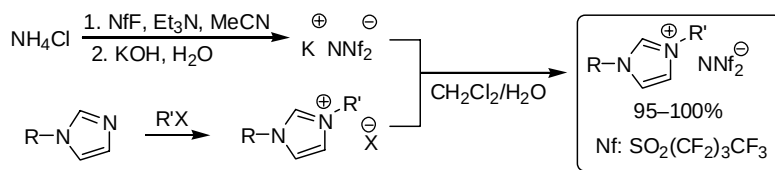
Mi Jung Lee, Ka Young Lee, Da Yeon Park and Jae Nyoung Kim\*



## Synthesis and properties of *N,N'*-dialkylimidazolium bis(nonafluorobutane-1-sulfonyl)imides: a new subfamily of ionic liquids

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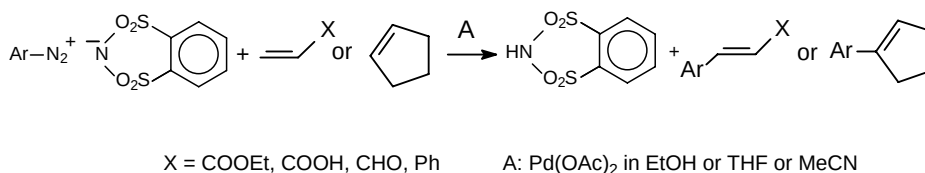
Ser Kiang Quek, Ilya M. Lyapkalo\* and Han Vinh Huynh



## Arene diazonium *o*-benzenedisulfonimides as efficient reagents for Heck-type arylation reactions

pp 3146–3157

Emma Artuso, Margherita Barbero,\* Iacopo Degani, Stefano Dughera and Rita Fochi\*

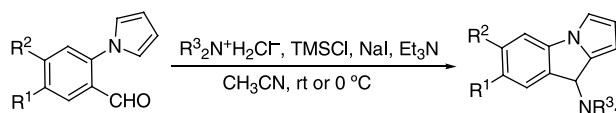


*o*-Benzenedisulfonimide, recovered in good yields from all the reactions, can be recycled to prepare other arene diazonium salts.

## A facile synthesis of 9-dialkylamino-9*H*-pyrrolo[1,2-*a*]indoles via iminium salts generated from 2-(pyrrol-1-yl)-benzaldehydes and secondary amine hydrochlorides in the presence of NaI/TMSCl/Et<sub>3</sub>N

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Kazuhiro Kobayashi,\* Atsushi Takanohashi, Kenichi Hashimoto, Osamu Morikawa and Hisatoshi Konishi



\*Corresponding author

Supplementary data available via ScienceDirect

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