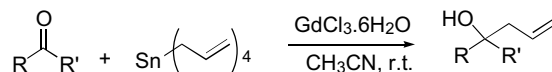


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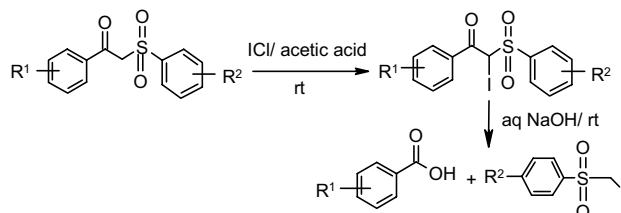
Gadolinium(III) chloride: a novel and an efficient reagent for the synthesis of homoallylic alcohols pp 4315–4318

B. Venkat Lingaiah, G. Ezikiel, T. Yakaiah, G. Venkat Reddy and P. Shanthan Rao*



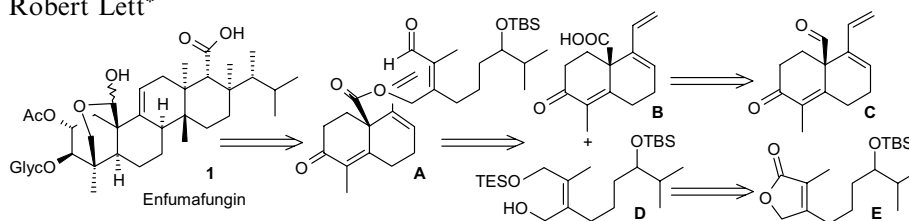
Synthesis of α -iodo β -ketosulfones and α -iodo methylsulfones using iodine monochloride pp 4319–4323

N. Suryakiran, T. Srikanth Reddy, V. Suresh, M. Lakshman and Y. Venkateswarlu*



A synthetic approach to enfumafungin pp 4325–4330

Nicolas Zorn and Robert Lett*



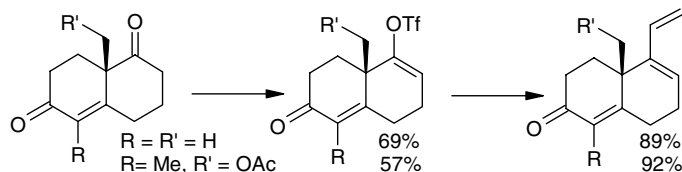
The stereospecific synthesis of the dienophile subunit precursor **D** was achieved from the butenolide **E**. The ester corresponding to the precursor of **A** was obtained in 67% overall yield from the aldehyde **C**, via a chlorite oxidation and subsequent Mitsunobu reaction of the acid **B** with **D**. Tentative IMDA reactions of **A** did not presently afford the adduct (thermal or Lewis acid catalysis conditions).



Enol triflates derived from the Wieland–Miescher ketone and an analog bearing an angular acetoxymethyl group: their highly regioselective synthesis and Stille coupling with vinyl(tributyl)tin

pp 4331–4335

Nicolas Zorn and Robert Lett*



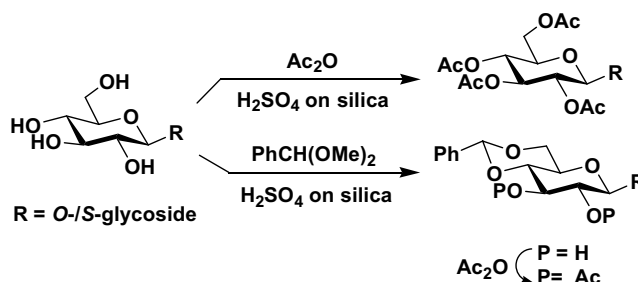
A highly selective synthesis of the enol triflate derived from the 9-keto group was achieved directly from diketones in kinetic conditions. The isomeric triflates were also prepared selectively in other conditions (kinetic or thermodynamic) and their specific Stille couplings achieved.



Sulfuric acid immobilized on silica: an efficient promoter for one-pot acetalation–acetylation of sugar derivatives

pp 4337–4341

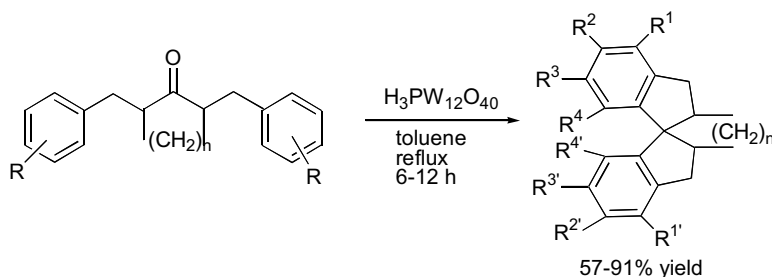
Balaram Mukhopadhyay



Synthesis of spirobiindanes via bis-cyclization reaction of the 1,5-diaryl-3-pentanones catalyzed by heteropoly acids

pp 4343–4345

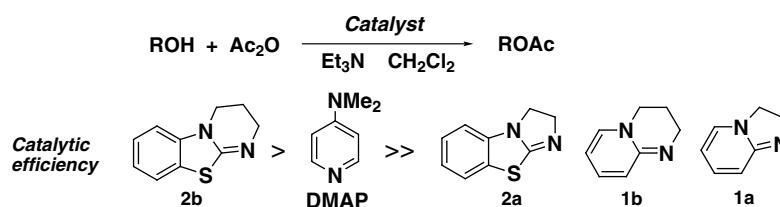
Kun Lan, Zixin Shan* and Shao Fan



Unexpected reactivity of annulated 3H-benzothiazol-2-ylideneamines as an acyl transfer catalyst

pp 4347–4350

Megumi Kobayashi and Sentaro Okamoto*



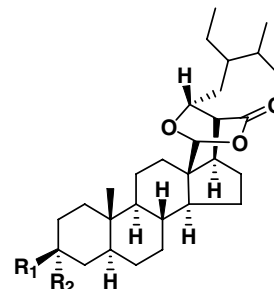
3,4-Dihydro-2H-9-thia-1,4a-diazafluorene (**2b**) was found to be an extremely effective catalyst, the reaction with which was faster than that with DMAP.

Trichiol and 3-epitrichiol acetate, novel cytotoxic sterols with an unprecedented 2,6-dioxabicyclo[2.2.2]octan-3-one ring system from the myxomycete *Trichia favoginea* var. *persimilis*

pp 4351–4354

Kouken Kaniwa, Takashi Ohtsuki, Tomomi Sonoda, Yukinori Yamamoto, Masahiko Hayashi, Kanki Kamiyama and Masami Ishibashi*

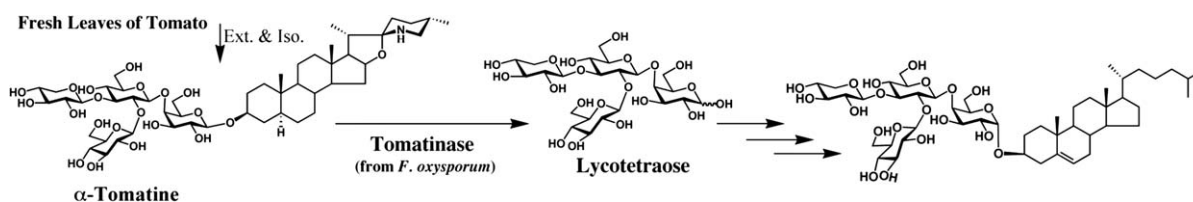
Two new sterols, trichiol ($R_1 = \text{OH}$, $R_2 = \text{H}$), and 3-epitrichiol acetate ($R_1 = \text{H}$, $R_2 = \text{OAc}$) with a 2,6-dioxabicyclo[2.2.2]octan-3-one ring were isolated from the field-collected fruit bodies of myxomycete *Trichia favoginea* var. *persimilis*.



Chemical trans-glycosylation of bioactive glycolinkage: synthesis of an α -lycotetraosyl cholesterol

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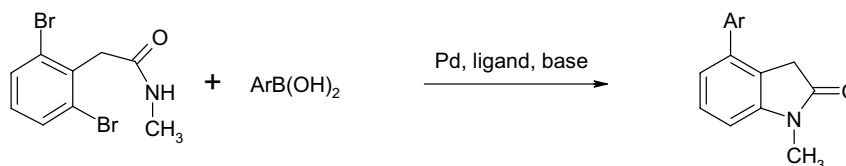
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An efficient one-pot synthesis of novel 4-aryl-1-methyloxindoles

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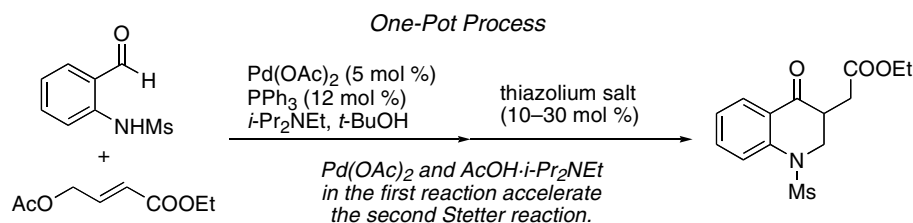
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Efficient synthesis of 3-substituted 2,3-dihydroquinolin-4-ones using a one-pot sequential multi-catalytic process: Pd-catalyzed allylic amination–thiazolium salt-catalyzed Stetter reaction cascade

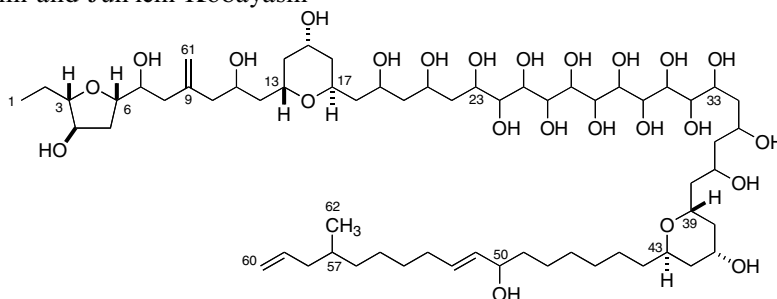
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Tetsuhiro Nemoto, Tomoaki Fukuda and Yasumasa Hamada*



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Takaaki Kubota, Yusuke Sakuma, Kazutaka Shimbo, Masashi Tsuda, Michiko Nakano,
Yasuhiro Uozumi and Jun'ichi Kobayashi*

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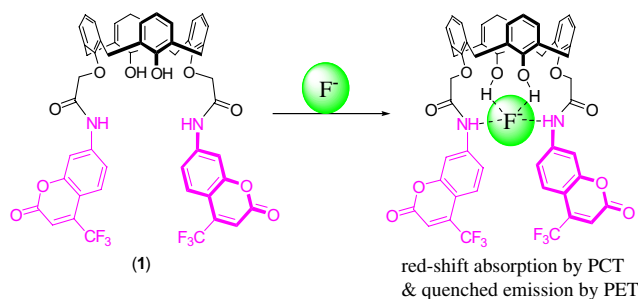


Amphezonol A

Fluoride sensing with a PCT-based calix[4]arene

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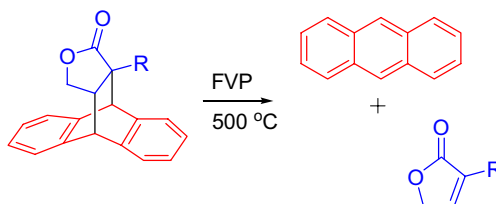
Suh Hyun Lee, Hyun Jung Kim, Yeon Ok Lee, Jacques Vicens and Jong Seung Kim*



Synthesis of substituted 3-furan-2(5H)-ones via an anthracene Diels–Alder sequence

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Simon Jones* and Ian Wilson



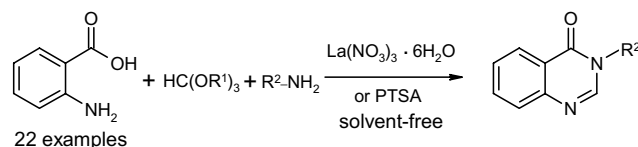
Lactones derived from the maleic anhydride–anthracene Diels–Alder cycloadduct undergo *C*-alkylation with a variety of electrophiles, leading to 3-substituted butenolides in good to excellent yields.



Lanthanum(III) nitrate hexahydrate or *p*-toluenesulfonic acid catalyzed one-pot synthesis of 4(3H)-quinazolinones under solvent-free conditions

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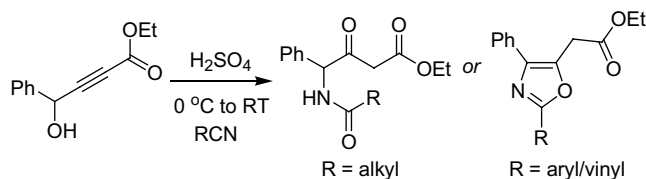
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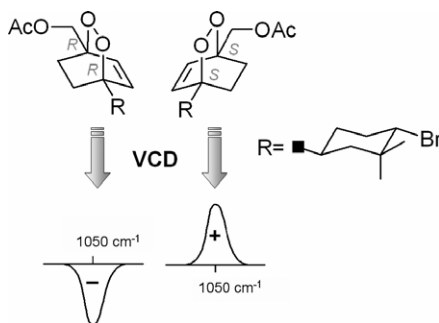
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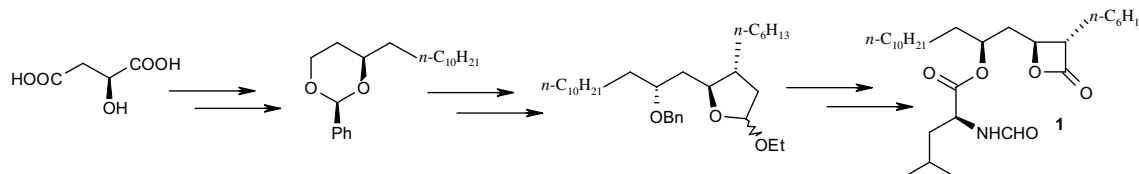
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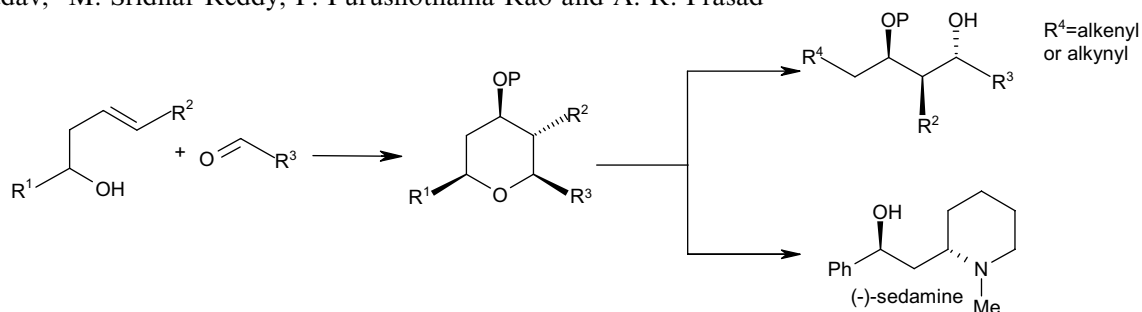
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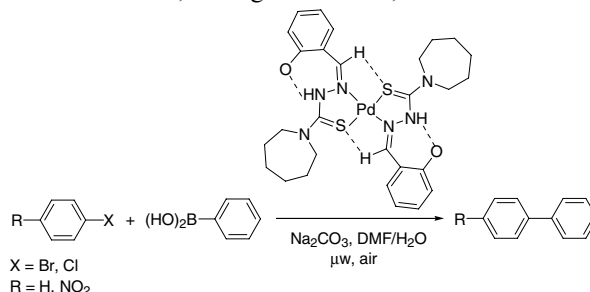
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J. S. Yadav,* M. Sridhar Reddy, P. Purushothama Rao and A. R. Prasad



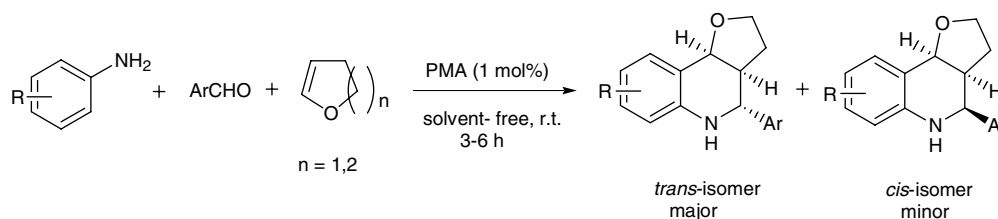
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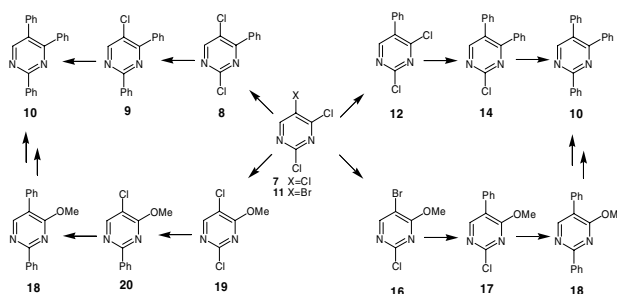
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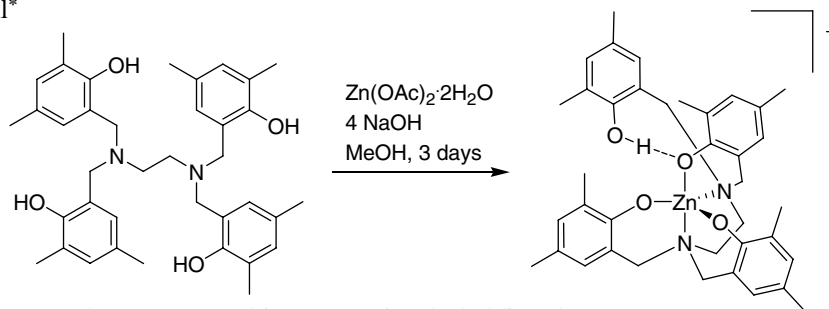
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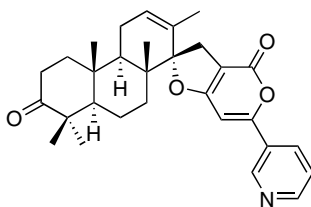
Mannich condensations are used to prepare multidentate aminoalcohol ligands.



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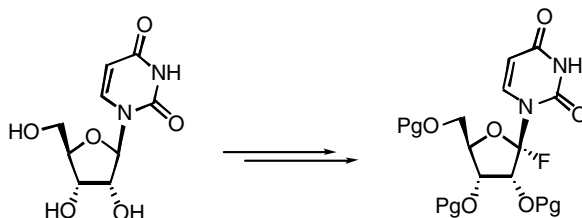
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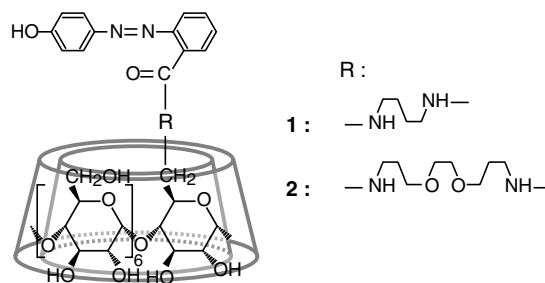


Synthesis and different molecular recognition of two dye-modified cyclodextrins with spacer of different length

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Tetsuo Kuwabara,* Kazuyo Shiba, Mayumi Ozawa, Naoya Miyajima and Yasutada Suzuki

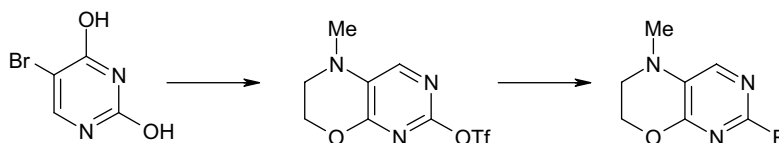
Two hydroxyazobenzene-modified β -cyclodextrins (CDs) with a different spacer length between CD and dye displayed the guest-induced color changes with a remarkable difference in the molecular recognition ability.



Synthesis and functionalization of 2-hydroxypyrimido[4,5-b][1,4]oxazine

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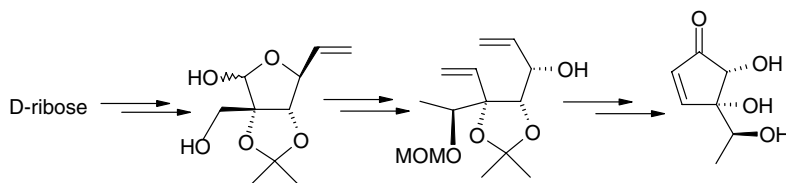
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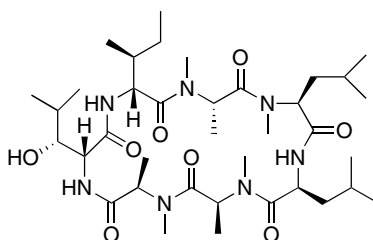
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**(–)-Ternatin, a highly N-methylated cyclic heptapeptide that inhibits fat accumulation: structure and synthesis**

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Kenichiro Shimokawa, Itsuka Mashima, Akiko Asai, Kaoru Yamada, Masaki Kita and Daisuke Uemura*

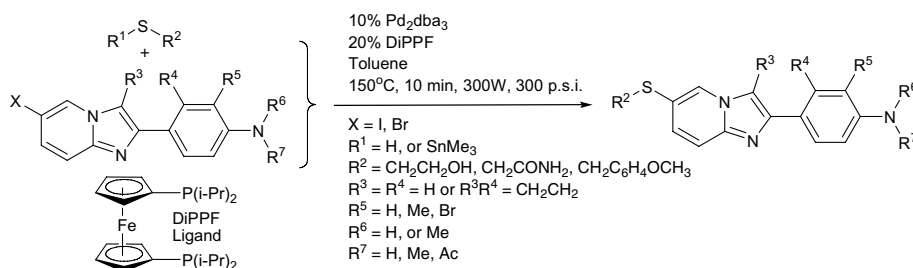


Ternatin (1)

Rapid palladium-catalyzed cross-coupling in the synthesis of aryl thioethers under microwave conditions

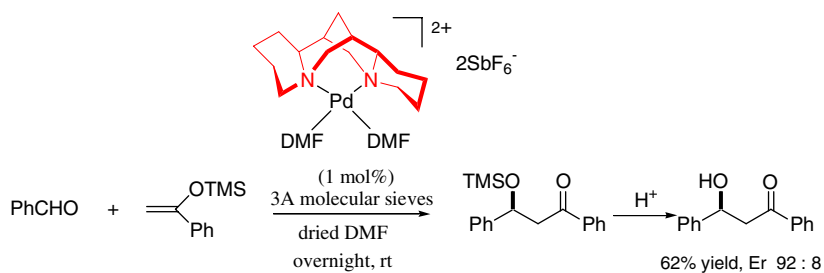
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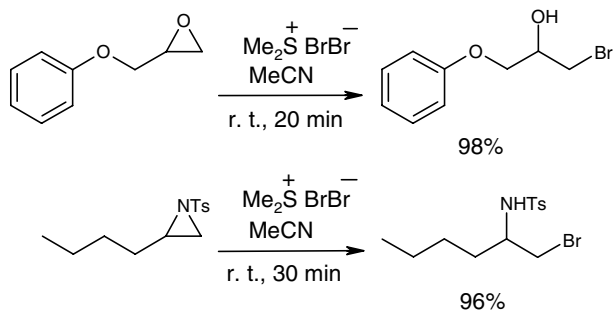
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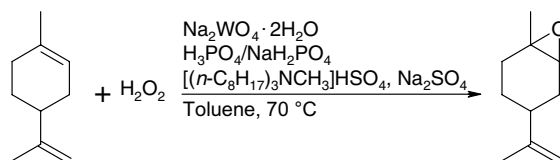
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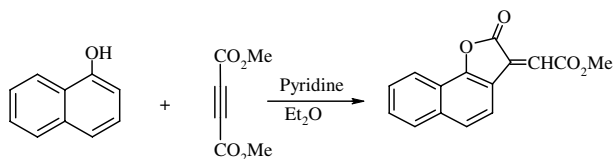
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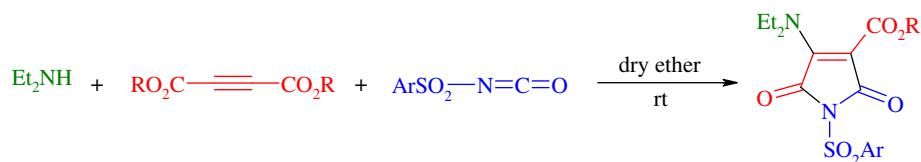
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Synthesis of fused α -methylene- γ -butyrolactone derivatives through pyridine-induced addition of phenols to dimethyl acetylenedicarboxylate pp 4465–4468
 Issa Yavari* and Zinatossadat Hossaini



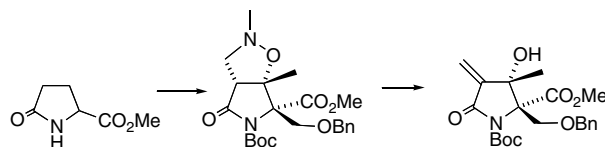
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Studies toward the synthesis of salinosporamide A, a potent proteasome inhibitor

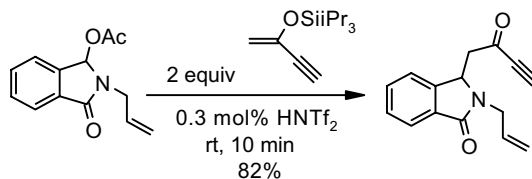
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Virginie Caubert and Nicole Langlois*


Eco-friendly *N*-acyliminium ion chemistry: solvent-free HNTf₂ and TIPSOTf-catalyzed α -amidoalkylation of silicon-based π -nucleophiles

pp 4477–4480

Marie-José Tranchant, Charlotte Moine, Raja Ben Othman, Till Bousquet, Mohamed Othman and Vincent Dalla*

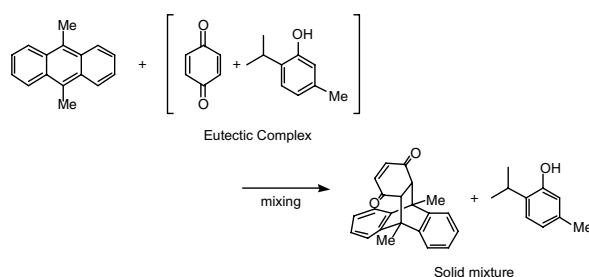


A key improvement in the α -amido alkylation between generic silicon-based π -nucleophiles and cyclic *N,O*-acetals catalyzed by HNTf₂ and TIPSOTf is achieved with the development of solvent-free variant. This has led to a simple and totally eco-friendly procedure now enabling the reaction to proceed at very low catalyst loadings.

A Diels–Alder reaction catalyzed by eutectic complexes autogenously formed from solid state phenols and quinones

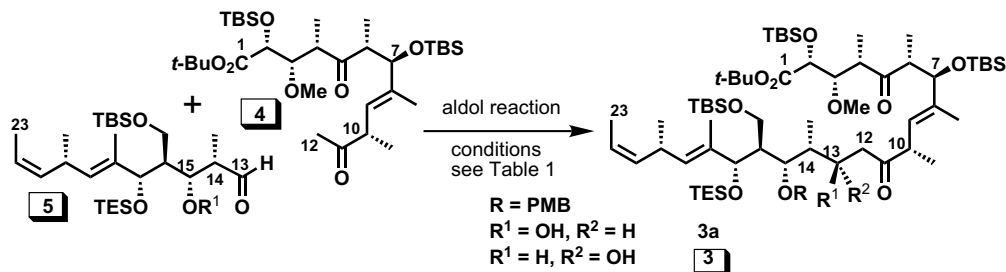
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Hiroto Watanabe, Ryota Hiraoka and Mamoru Senna*


Synthetic studies toward the total synthesis of tedanolide: assembly of the C1–C23 carbon backbone

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Chek-Ming Wong and Teck-Peng Loh*

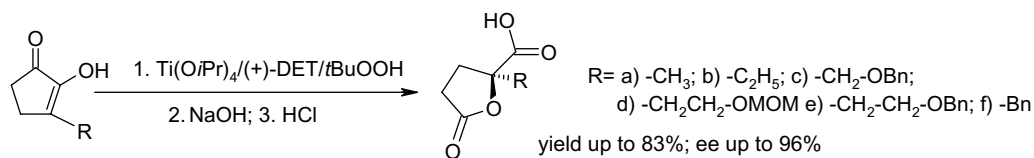


A stereoselective assembly of the C1–C23 fragment representing the carbon backbone of tedanolide has been accomplished.

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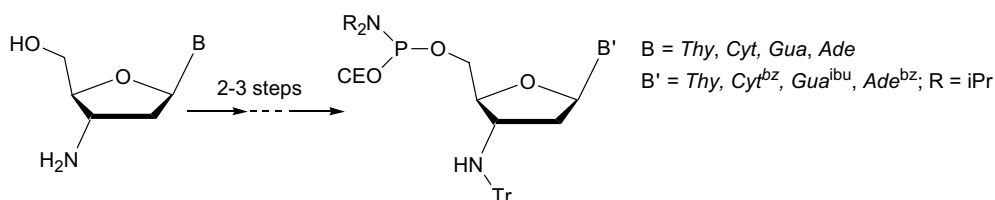
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A new approach to oligonucleotide N3' → P5' phosphoramidate building blocks

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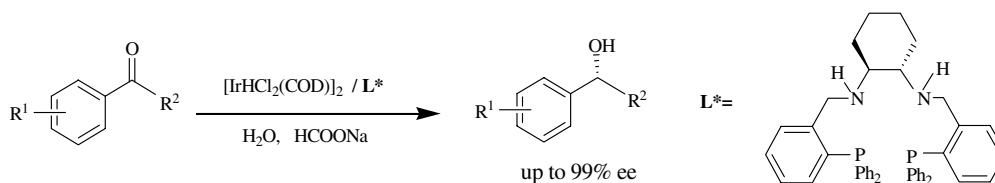
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Highly efficient chiral PNNP ligand for asymmetric transfer hydrogenation of aromatic ketones in water

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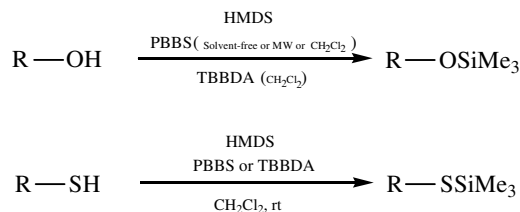
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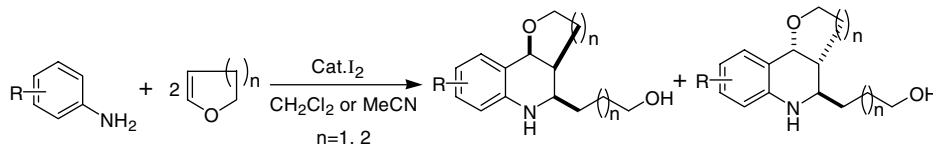
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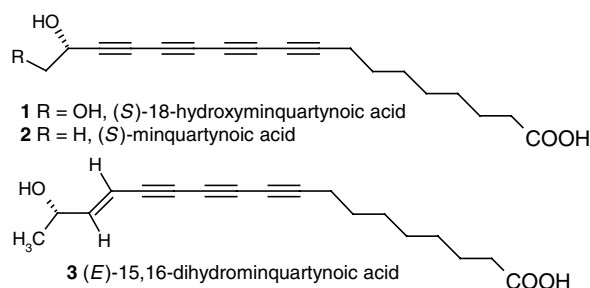
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*Supplementary data available via ScienceDirect



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ISSN 0040-4039