

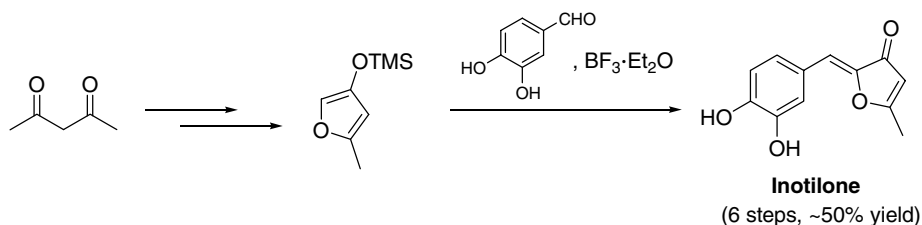
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Convergent synthesis of potent COX-2 inhibitor inotilone

Julia L. Shamshina and Timothy S. Snowden\*

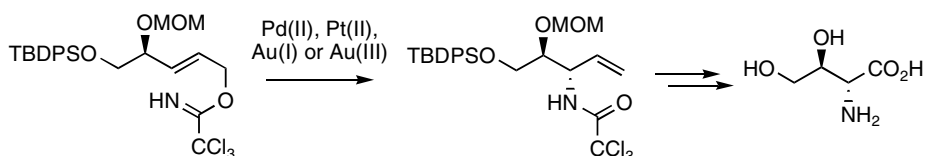
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A stereoselective synthesis of (2*R*,3*S*)-2-amino-3,4-dihydroxybutyric acid using an ether directed aza-Claisen rearrangement

Michael D. Swift and Andrew Sutherland\*

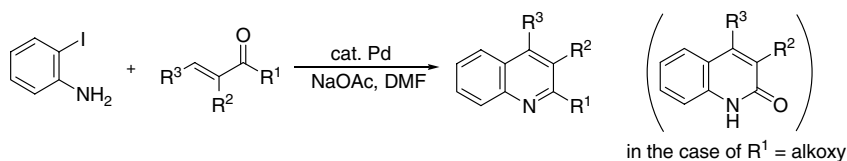
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An approach for quinolines via palladium-catalyzed Heck coupling followed by cyclization

Chan Sik Cho\* and Jun Uk Kim

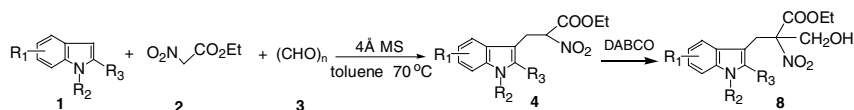
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**An efficient one-pot reaction of indoles, nitroacetate, and paraformaldehyde for the synthesis of tryptophan derivatives**

pp 3779–3782

Yong Sui, Li Liu,\* Jun-Ling Zhao, Dong Wang and Yong-Jun Chen\*

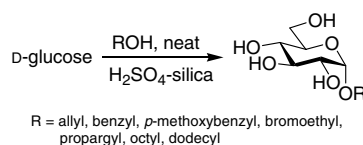


An efficient method for the synthesis of tryptophan analogues has been developed via one-pot reaction of commercial available indoles, ethyl nitroacetate and paraformaldehyde in the presence of molecular sieves. The reaction provided tryptophan nitro-precursors in moderate to good yields, which were further converted to  $\alpha$ -hydroxymethylated tryptophan derivatives catalyzed by DABCO in high yields.

**Sulfuric acid immobilized on silica: an excellent catalyst for Fischer type glycosylation**

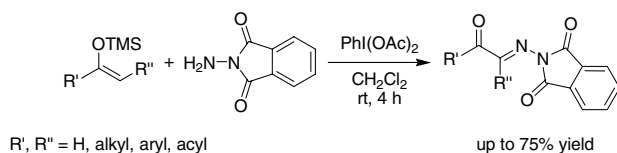
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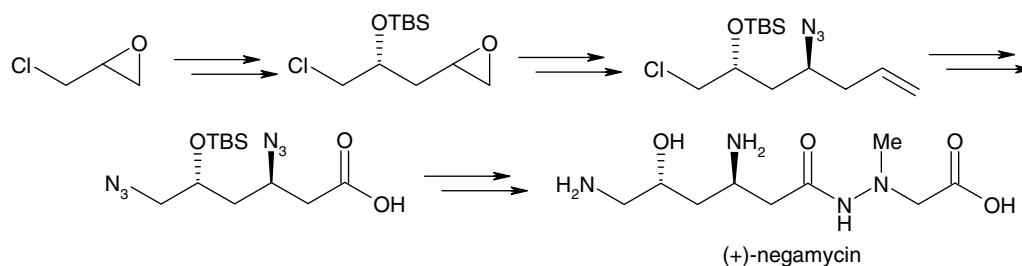
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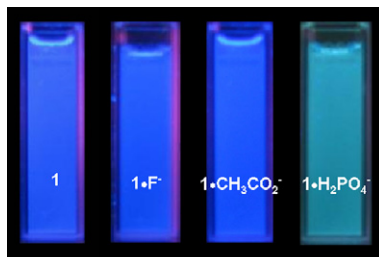
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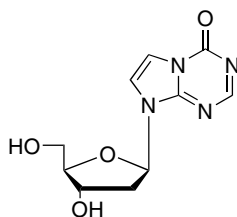
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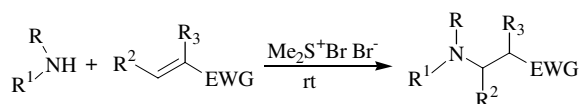
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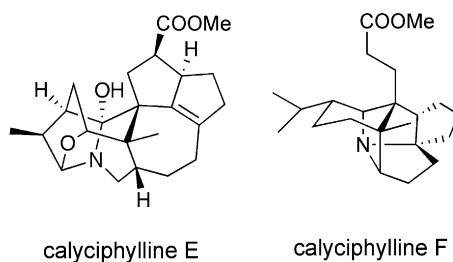
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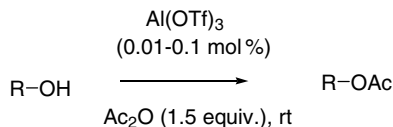
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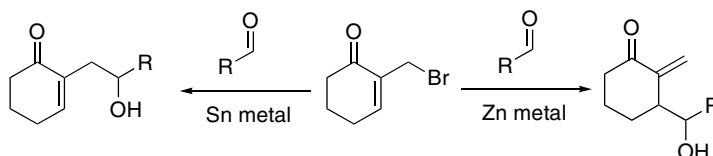
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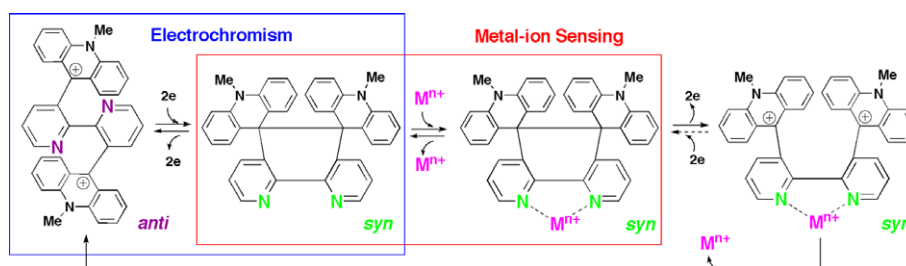
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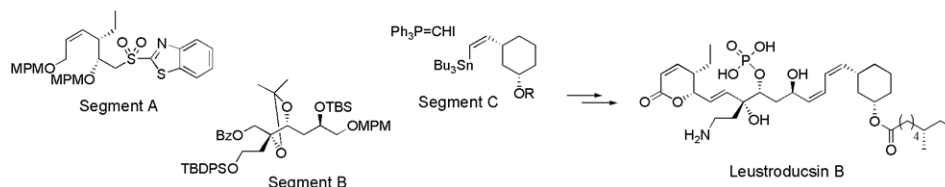
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**Total synthesis of leustroducsin B via a convergent route**

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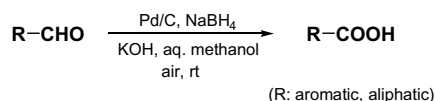
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Leustroducsin B was synthesized via a three segments coupling procedure.

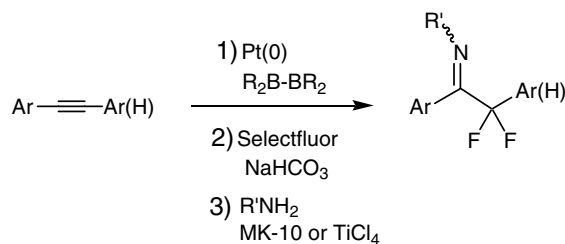
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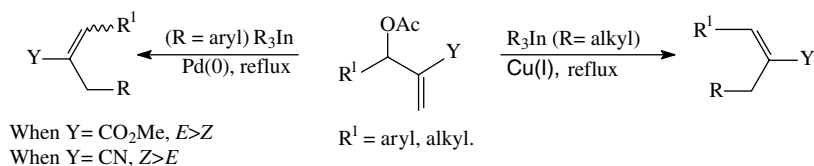
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A selective and simultaneous synthesis of adjacent CN and CF<sub>2</sub> functional groups from alkynes through vicinal C–B bonds.

**Chemo-, regio- and stereoselective addition of triorganoindium reagents to acetates of Baylis–Hillman adducts: a new strategy for the synthesis of (*E*)- and (*Z*)-trisubstituted alkenes** pp 3847–3850

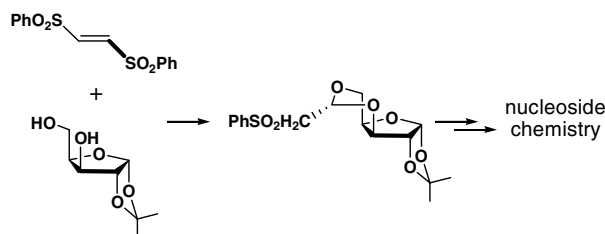
Brindaban C. Ranu,\* Kalicharan Chattopadhyay and Ranjan Jana



**Probing of PSE acetal protection for nucleoside chemistry**

pp 3851–3854

Jean-Pierre Uttaro, Lycia Uttaro, Arnaud Tatibouet, Patrick Rollin, Christophe Mathé and Christian Périgaud\*



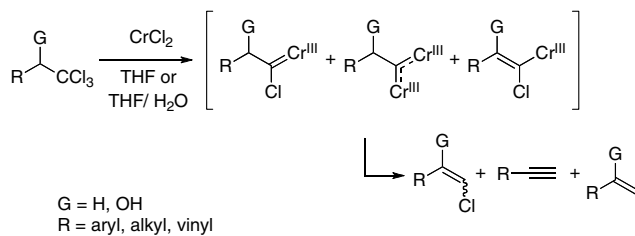
The use of phenylsulfonylethylidene (PSE) acetal as a protective group in nucleoside chemistry is reported.

**A mechanistic study of the chromium(II)-mediated transformations of trichloromethyl alkyls and carbinols: evidence for carbene, carbyne, and carbenoid intermediates**

pp 3855–3858

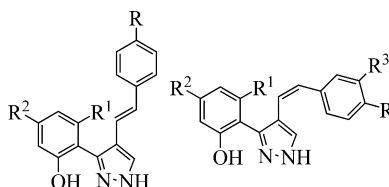
Romain Bejot, Steve Tisserand, De Run Li, J. R. Falck\* and Charles Mioskowski\*

Using CrCl<sub>2</sub> in THF at room temperature, trichloromethyl carbinols and trichloromethylalkanes are readily transformed to the highly reactive α-chlorocarbenes, carbynes, and α-chloro-α-chromium(III) vinylidene carbenoids. A mechanistic study is carried out to determine the nature of the intermediates.


**Novel (*E*)- and (*Z*)-3(5)-(2-hydroxyphenyl)-4-styrylpyrazoles from (*E*)- and (*Z*)-3-styrylchromones: the unexpected case of (*E*)-3(5)-(2-hydroxyphenyl)-4-(4-nitrostyryl)pyrazoles**

pp 3859–3862

Vera L. M. Silva, Artur M. S. Silva,\* Diana C. G. A. Pinto, José A. S. Cavaleiro and José Elguero

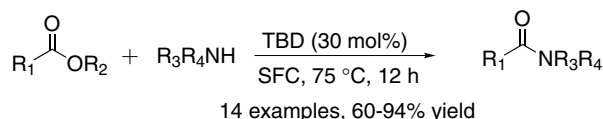


An efficient synthesis of (*E*)- and (*Z*)-3(5)-(2-hydroxyphenyl)-4-styrylpyrazoles from (*E*)- and (*Z*)-3-styrylchromones, which does not have a 4'-nitro substituent, have been developed. In this case, both (*E*)- and (*Z*)-4'-nitro-3-styrylchromones afforded only (*E*)-3-(2-hydroxyphenyl)-4-(4-nitrostyryl)pyrazoles.

**A convenient aminolysis of esters catalyzed by 1,5,7-triazabicyclo[4.4.0]dec-5-ene (TBD) under solvent-free conditions**

pp 3863–3866

Cyrille Sabot, Kanduluru Ananda Kumar, Stéphane Meunier and Charles Mioskowski\*

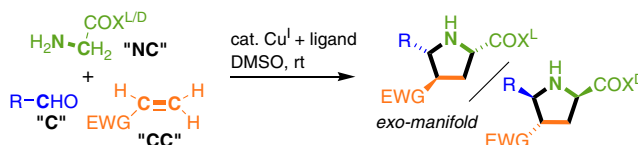


Various aliphatic and aromatic esters readily undergo aminolysis in a mild TBD-mediated solvent-free reaction to afford the corresponding amides in good to excellent yields.

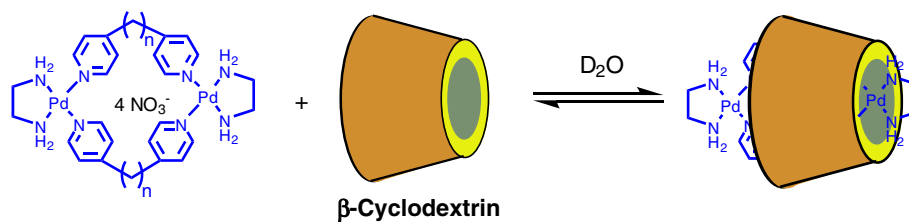
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pp 3867–3870

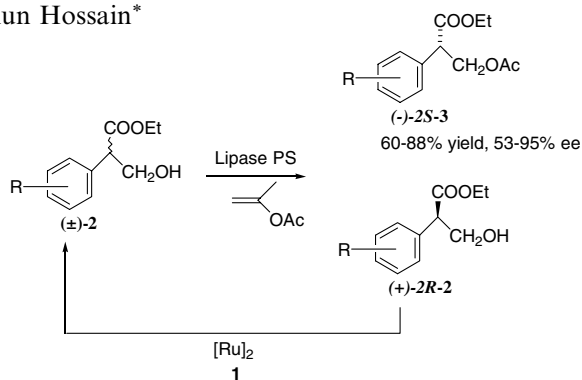
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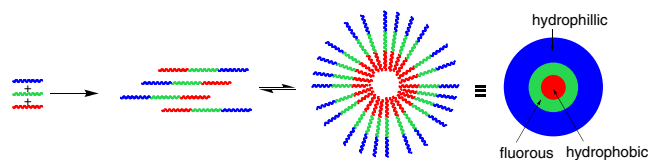
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Yi Liu



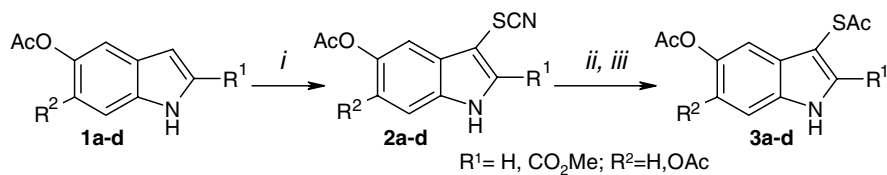
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Mary Rose Atuu and M. Mahmum Hossain\*



**Synthesis and self-assembly properties of a novel [poly(ethylene glycol)]–fluorocarbon–phospholipid triblock copolymer** pp 3879–3882  
Jennifer N. Slaughter, Karen M. Schmidt, Julee L. Byram and Sandro Meozzi\*



**The first entry to 5,6-dihydroxy-3-mercaptoindole, 5-hydroxy-3-mercaptoindole and their 2-carbomethoxy derivatives by a mild thiocyanation/reduction methodology** pp 3883–3886  
Alessandro Pezzella,\* Aniello Palma, Alfonso Iadonisi, Alessandra Napolitano and Marco d'Ischia

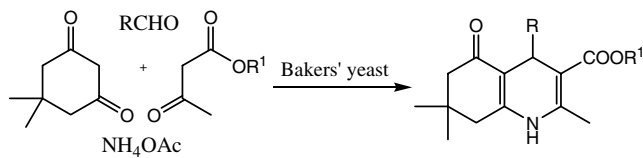


Reagents: (i)  $\text{NH}_4\text{SCN/oxone}$ , molar ratio 1:1.2; (ii)  $\text{SmI}_2$ ; (iii)  $\text{Ac}_2\text{O}$ .

**Bakers' yeast catalyzed synthesis of polyhydroquinoline derivatives via an unsymmetrical Hantzsch reaction**

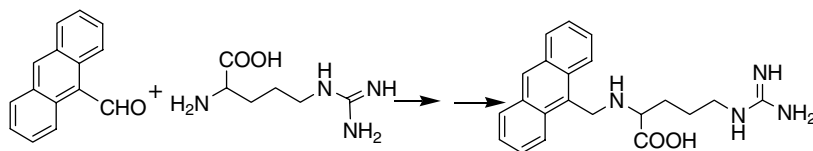
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Atul Kumar\* and Ram Awatar Maurya

**L-Arginine bearing an anthrylmethyl group: fluorescent molecular NAND logic gate with H<sup>+</sup> and ATP as inputs**

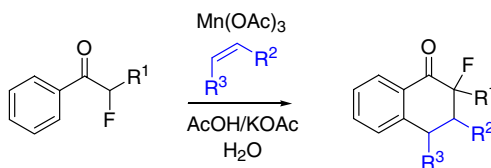
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Guoqiang Zong, Liang Xian and Gongxuan Lu\*

**Synthesis of 2-fluorotetralones by oxidative radical cyclization of  $\alpha$ -fluoroacetophenones and olefins**

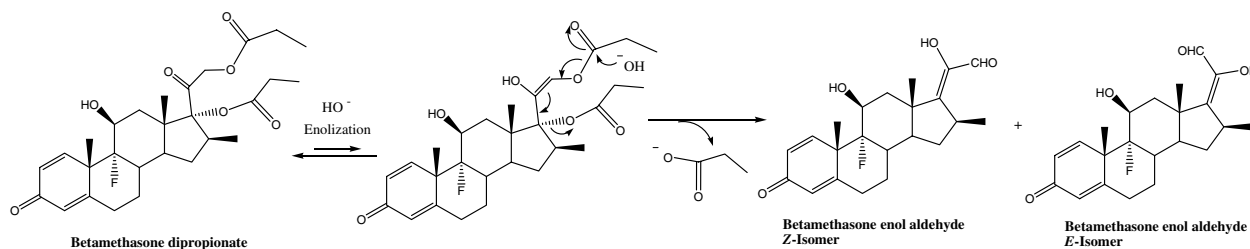
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Markus R. Heinrich

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Min Li,\* Bin Chen, Mingxiang Lin, Tze-Ming Chan, Xiaoyong Fu and Abu Rustum

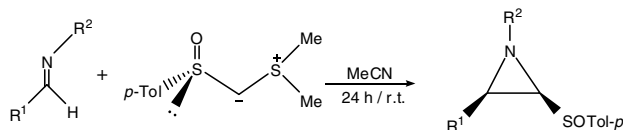




**Highly stereoselective aziridination of imines with (*S*)-dimethylsulfonium-(*p*-tolylsulfinyl)methylide**

pp 3907–3910

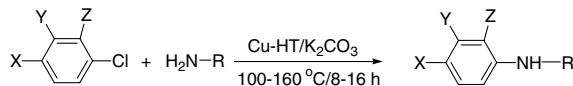
Wanda H. Midura



**A recyclable Cu/Al-HT catalyst for amination of aryl chlorides**

pp 3911–3914

Pravin R. Likhar,\* R. Arundhathi and M. Lakshmi Kantam

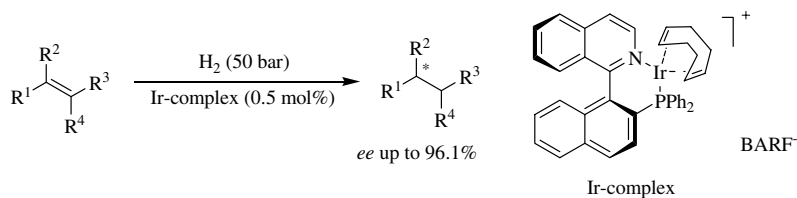


X-NO<sub>2</sub>, Y-H, Z-H, **1a**; X-H, Y-H, Z-NO<sub>2</sub>, **1b**; X-CHO, Y-H, Z-H, **1c**  
 X-CHO, Y-Cl, Z-H, **1d**; X-COOH, Y-H, Z-H, **1e**; X-H, Y-H, Z-CN, **1f**  
 X-CN, Y-H, Z-H, **1g**; R-benzyl, cyclohexyl, cyclopentyl

**Enantioselective hydrogenation of olefins with axial chiral iridium QUINAP complex**

pp 3915–3917

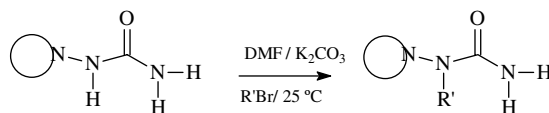
Xinsheng Li,\* Lichun Kong, Yongguang Gao and Xiaoxia Wang



**A new and efficient N-alkylation procedure for semicarbazides/semicarbazones derivatives**

pp 3919–3923

Dalci José Brondani,\* Diogo Rodrigo de Magalhães Moreira, Maria Patrícia A. de Farias, Flávio Ricardo da S. Souza, Fábio Fernandes Barbosa and Ana Cristina Lima Leite

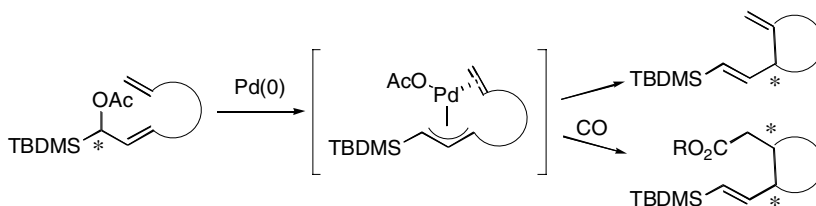


The treatment of hydrazones/hydrazides in the presence of alkyl halides in an aprotic medium brings about highly and efficient regioselective N-alkylation to produce the corresponding *N*-alkyl derivatives.

**Palladium-catalyzed intra-molecular olefin insertion reaction of  $\alpha$ -alkenyl- $\alpha$ -acyloxytrialkylsilane.  
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Kazuhiko Sakaguchi,\* Takuya Okada, Takeshi Yamada and Yasufumi Ohfuné\*



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\*Corresponding author

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Available online at [www.sciencedirect.com](http://www.sciencedirect.com)

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