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SYNLETT

Accounts and Rapid Communications in Synthetic Organic Chemistry

Cluster

Process Chemistry

Editor: Hisashi Yamamoto

Synpacts

G. Lalic, R. P. Rucker

Copper-Catalyzed Electrophilic
Amination of Organoboron Compounds

J. Streuff

An Update on Catalytic Strategies for
the Synthesis of α -Hydroxyketones

Account

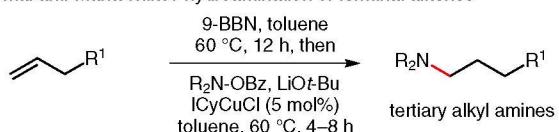
A. Gualandi, P. G. Cozzi

Stereoselective Organocatalytic
Alkylations with Carbenium Ions

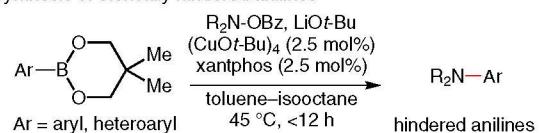
2013 • Vol. 24, 269–400

269 G. Lalic*
R. P. Rucker**Copper-Catalyzed Electrophilic Amination of Organoboron Compounds**

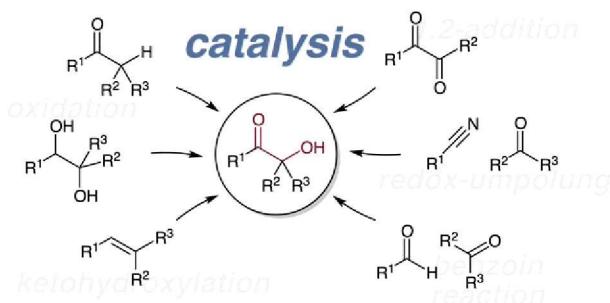
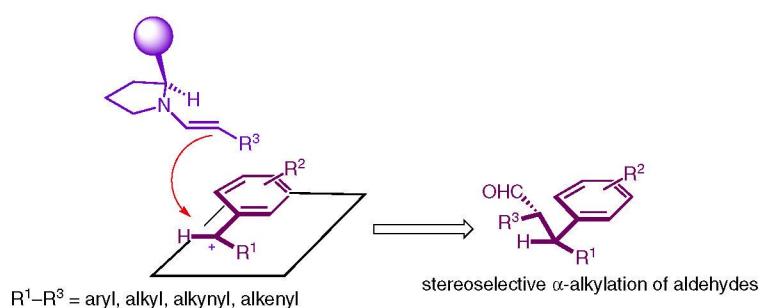
Formal anti-Markovnikov hydroamination of terminal alkenes



Synthesis of sterically hindered anilines

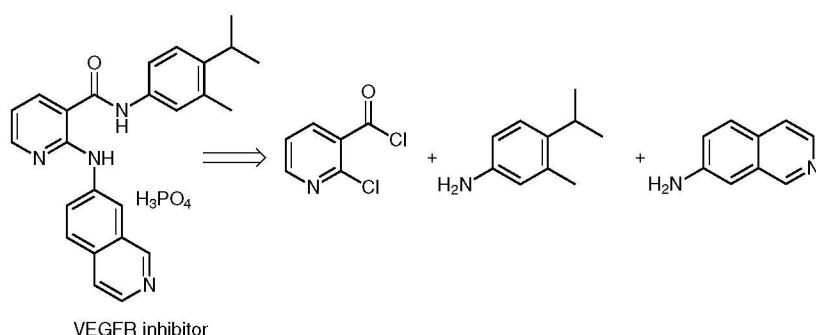


276 J. Streuff*

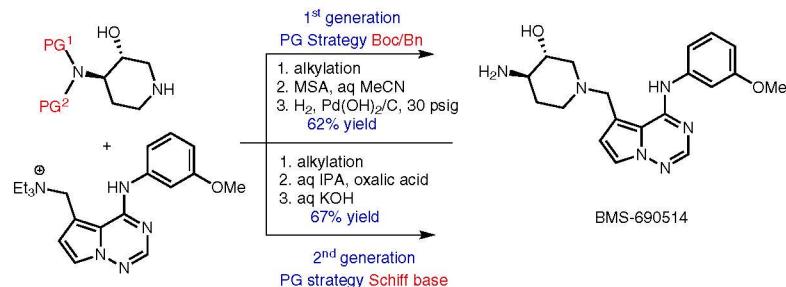
An Update on Catalytic Strategies for the Synthesis of α -Hydroxyketones281 A. Gualandi
P. G. Cozzi***Stereoselective Organocatalytic Alkylation with Carbenium Ions**

[Cluster Preface: Process Chemistry](#)

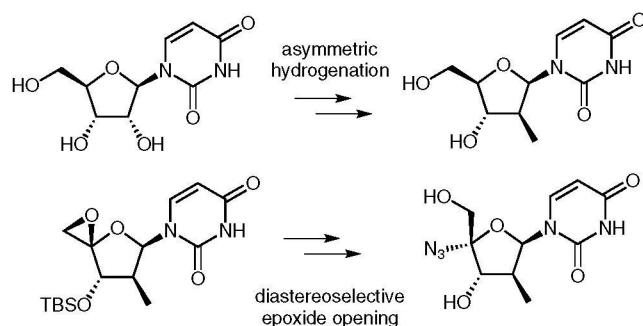
301 Y. Chen*
 R. D. Crockett
 X. Wang
 R. D. Larsen
 S. Cui*
 M. M. Faul*

[Development of a Scalable Synthesis of a VEGFR Inhibitor](#)

305 B. Mudryk*
 A. Joshi*
 A. Ortiz
 I. S. Young
 J. R. Sawyer
 B. Zheng
 M. Sugiyama
 Z. Shi
 J. Müslehiddinoğlu
 R. M. Corbett
 D. R. Kronenthal
 D. A. Conlon

[Evolution of the Process for the Preparation of a Selective ErbB VEGF Receptor Inhibitor](#)

313 I. N. Houpis*
 S. Lemaire
 V. Farina
 T. Xiao
 R. Liu
 U. Nettekoven
 Y. Wang

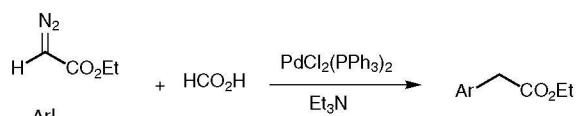
[New Synthesis of 2',4'-Functionalized Nucleotides via Stereospecific Hydrogenation and Azidation Reactions](#)

- 317** B. Z. Lu*
 G. Li*
 S. Rodriguez
 J. Liu
 M. C. Eriksson
 Z. Tan
 J. J. Song
 N. K. Yee
 V. Farina*
 C. H. Senanayake*
- Development of a Practical Synthesis of 4-[6-(Morpholinomethyl)-pyridin-3-yl]naphthalen-1-amine, a Key Intermediate for the Synthesis of BIRB 1017, a Potent p38 MAP Kinase Inhibitor**
-
- borylation
Suzuki coupling
90%
- 323** C. E. Chase
 F. G. Fang
 B. M. Lewis*
 G. D. Wilkie
 M. J. Schnaderbeck
 X. Zhu
- Process Development of Halaven®: Synthesis of the C1–C13 Fragment from D-(–)-Gulono-1,4-lactone**
-
- 327** B. A. Austad et al.
- Process Development of Halaven®: Synthesis of the C14–C35 Fragment via Iterative Nozaki–Hiyama–Kishi Reaction–Williamson Ether Cyclization**
-
- Williamson ether cyclization
Ni/Cr-mediated coupling
C14–C35
Halaven®
- 333** B. A. Austad et al.
- Commercial Manufacture of Halaven®: Chemoselective Transformations En Route to Structurally Complex Macrocyclic Ketones**
-
- Halaven®
 epoxide-mediated amination
 SmI2-mediated desulfonylation
 sulfone-aldehyde coupling
 oxy-Michael addition
 Ni/Cr-mediated macrocyclization
 polycyclic ketalization
 polycondensation

- VIII**
-
- 338** M. G. Mayer
F. Nador
M. A. Volpe
G. Radivoj* **High Surface Area CeO₂ Promoted Suzuki–Miyaura Cross-Coupling of Arylboronic Acids and Aryl Iodides**
-
- R¹ = H, OMe, NMe₂
R² = CN, CF₃, Me, OMe, F, Cl
- 343** A. P. Spork
C. Ducho* **Stereocontrolled Synthesis of 5'- and 6'-Epimeric Analogues of Muraymycin Nucleoside Antibiotics**
-
- uridine $\xrightarrow{\text{stereo-controlled synthesis of both trans-epoxides}}$ (5'S,6'R) trans-epoxide \longrightarrow (5'R,6'S) 5'-epimers
(5'R,6'S) trans-epoxide \longrightarrow (5'S,6'R) 6'-epimers
- (5'S,6'S) naturally occurring muraymycins
- 347** M. G. Dighe
S. L. Lonkar
M. S. Degani* **Mechanistic Insights into Palladium Leaching in Novel Pd/C-Catalyzed Boron-Heck Reaction of Arylboronic Acid**
-
- carbon Pd/C $\xrightarrow{\text{ArB(OH)}_2 \text{ oxidative addition}}$ Ar $\xrightarrow{\text{Pd leaching}}$ Ar-Pd(II) $\xrightarrow{\text{migratory insertion (E)-arylated products}}$ Ar-CH=CH-R
- : Pd(0) ● : Pd(II)
- 351** O. P. Pereshivko
V. A. Peshkov
D. S. Ermolat'ev
E. V. Van der Eycken* **Fast Assembly of 1*H*-Imidazo[1,2-*a*]imidazol-5-amines via Groebke–Blackburn–Bienaymé Reaction with 2-Aminoimidazoles**
-
- TsOH·H₂O (20 mol%)
toluene, 110 °C 30 min, MW
- 21 examples, 17–77% yield, 4 points of diversity

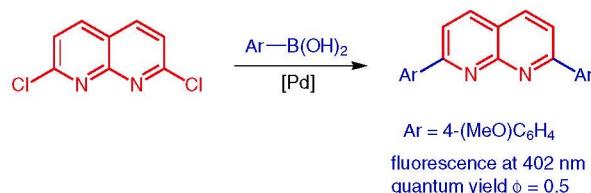
355 I. D. Titanyuk*
I. P. Beletskaya

Palladium-Catalyzed Hydroarylation of Diazoacetic Ester



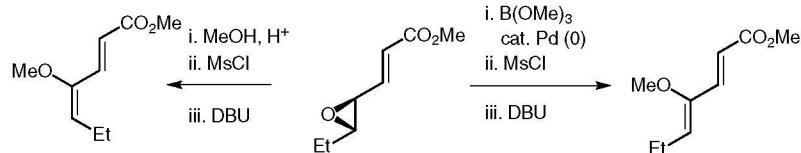
359 P. Ehlers
A. Petrosyan
T. V. Ghochikyan
A. S. Saghyan
A. Neubauer
S. Lochbrunner
P. Langer*

Suzuki–Miyaura Reactions of 2,7-Dichloro-1,8-naphthyridine



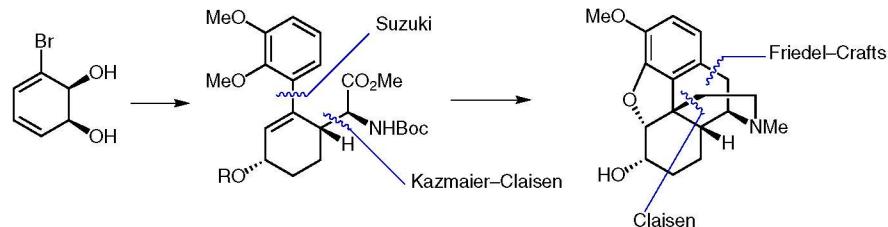
363 P. G. E. Craven
R. J. K. Taylor*

Stereocontrolled Routes to 4-Methoxypentadienoates for Use in Natural Product Synthesis



369 V. Varghese
T. Hudlicky*

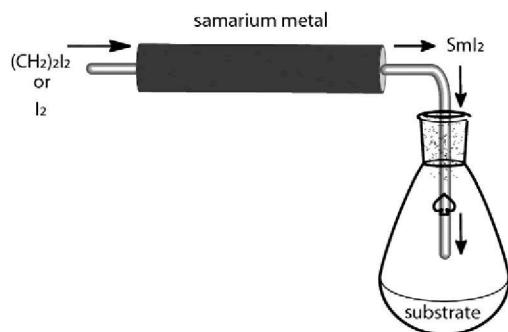
Total Synthesis of Dihydrocodeine and Hydrocodone via a Double Claisen Rearrangement and C-10/C-11 Closure Strategy



- 375** A. Narayama
K. Shibatomi*
Y. Soga
T. Muto
S. Iwasa
- Copper(II)-Catalyzed Enantioselective Fluorination of β -Keto Esters Using Chiral Spiro Oxazoline Ligands**
-
- 81–93% yield
81–99% ee
10 examples
(including both cyclic and acyclic substrates)
-
- 379** J. Choi
H. Kim
S. Park
J. Tae*
- Asymmetric Total Synthesis of (–)-Galanthamine via Intramolecular Heck Reaction of Conjugated Diene**
-
-
- 383** X. Xu*
T. Li
X. Li*
J. Shao
- Synthesis of Substituted Fluorenes by Cascade Allenylation, Electrocyclization and Intramolecular Friedel–Crafts Reaction of 1,3-Diene-Substituted Propargylic Alcohols**
-
-
- 389** D. Gao
T. G. Back*
- Synthesis of the Reverse Transcriptase Inhibitor L-737,126 and the CB₂ Cannabinoid Receptor Agonist Pravadoline by a Copper-Catalyzed Intramolecular Cross-Coupling**
-
- EWG = electron-withdrawing group

394 S. Voltrova
J. Srogli*

Expedient Method for Samarium(II) Iodide Preparation Utilizing a Flow Approach



397 Compiled by
F. R. Fintelman Dias

Ethyl 2-Diazoacetoacetate

399 Compiled by
N. Gigant

Triflic Acid

Author Index

- Abe, T. 327
 Asai, N. 327, 333
 Asai, Y. 327
 Asakawa, N. 333
 Austad, B. C. 327, 333
- Back, T. G. 389
 Beletskaya, I. P. 355
 Benayoud, F. 327
- Calkins, T. L. 327, 333
 Campagna, S. 327
 Chase, C. E. 323, 327, 333
 Chen, Y. 301
 Chiba, H. 333
 Choi, H.-w. 327
 Choi, J. 379
 Christ, W. 327
 Conlon, D. A. 305
 Corbett, R. M. 305
 Costanzo, R. 327
 Cozzi, P. G. 281
 Craven, R. G. E. 363
 Crockett, R. D. 301
 Cui, S. 301
 Cutter, J. 327
- Degani, M. S. 347
 Dighe, M. G. 347
 Ducho, C. 343
- Ehlers, P. 359
 Endo, A. 327
 Eriksson, M. C. 317
 Ermolat'ev, D. S. 351
- Fang, F. G. 323, 327, 333
 Farina, V. 313, 317
 Faul, M. M. 301
 Fintelman Dias, F. R. 397
- Gao, D. 389
 Ghochikyan, T. V. 359
 Gigant, N. 399
 Gualandi, A. 281
- Hasebe, T. 333
 Horstmann, T. E. 333
 Hoshino, Y. 333
 Houpis, I. N. 313
 Hu, Y. 327, 333
 Hudlicky, T. 369
- Ishizuka, H. 333
 Iwasa, S. 375
- Joshi, A. 305
- Kajima, T. 333
 Kayano, A. 327, 333
 Kim, H. 379
 Kimoto, Y. 327
 Komatsu, Y. 327, 333
 Kronenthal, D. R. 305
 Kubota, M. 327, 333
 Kuroda, H. 327, 333
- Lalic, G. 269
 Langer, P. 359
 Larsen, R. D. 301
 Lemaire, S. 313
 Lewis, B. M. 323, 327, 333
- Lewis, M. D. 327
 Li, G. 317
 Li, T. 383
 Li, X. 383
 Liu, J. 317
 Liu, R. 313
 Lochbrunner, S. 359
 Lonkar, S. L. 347
 Lu, B. Z. 317
- Mayer, M. G. 338
 McKenna, S. 327
 Miyazawa, M. 333
 Mizuno, M. 327
 Mudryk, B. 305
 Müslehidinoglu, J. 305
 Muto, T. 375
- Nador, F. 338
 Nakamura, T. 327
 Narayama, A. 375
 Nettekoven, U. 313
 Neubauer, A. 359
 Niu, X. 333
 Noland, T. A. 327, 333
- Omae, T. 327
 Orr, J. D. 327, 333
 Ortiz, A. 305
 Ozeki, N. 327
- Park, S. 379
 Pereshivko, O. P. 351
 Pesant, M. 327
 Peshkov, V. A. 351
 Petrosyan, A. 359
- Radivoy, G. 338
 Rodriguez, S. 317
 Rucker, R. P. 269
- Saghyan, A. S. 359
 Sawyer, J. R. 305
 Schnaderbeck, M. J. 323, 327, 333
 Senanayake, C. H. 317
 Shao, J. 383
 Shi, Z. 305
 Shibatomi, K. 375
 Soga, Y. 375
- Song, J. J. 317
 Spork, A. P. 343
 Srogl, J. 394
 Streuff, J. 276
 Sugiyama, M. 305
 Suzuki, T. 327
- Tae, J. 379
 Tagami, K. 333
 Takigawa, T. 327
 Tan, Z. 317
 Taylor, R. J. K. 363
 Titanyuk, I. D. 355
- Van der Eycken, E. V. 351
 Varghese, V. 369
 Volpe, M. A. 338
 Voltrova, S. 394
- Wang, X. 301
 Wang, Y. 313
 Watanabe, T. 327, 333
 Wilkie, G. D. 323, 327
- Xiao, T. 313
 Xu, X. 383
- Yasuda, N. 298
 Yee, N. K. 317
 Yoshizawa, K. 327
 Young, I. S. 305
- Zhang, H. 333
 Zheng, B. 305
 Zhu, X. 323