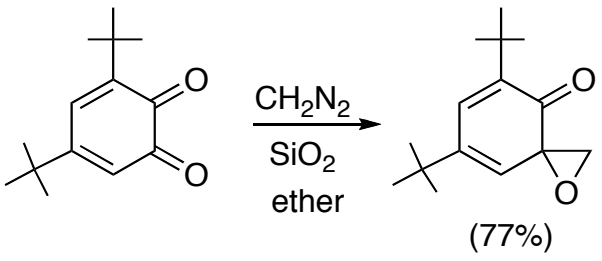
■ PREFACES

■ CURRICULUM VITAE

■ PUBLICATIONS

■ SUMMARY

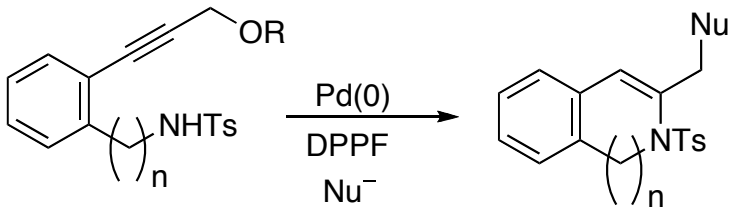
■ COMMUNICATIONS



Oxirane α-Diketone Diazomethane Ring Expansion 1,3-Diketone

27 **Synthesis of Bicyclic Heterocycles from Propargyl Esters Using a Palladium Catalyst Bearing a Bidentate Ligand**

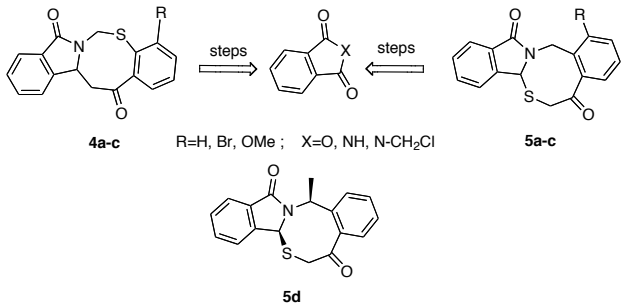
Masaya Tsubakiyama, Yoshihiro Sato, and Miwako Mori*



Palladium Allenylpalladium Complex Propargylpalladium Complex Isoquinoline Benzoazepine

33 **Access to the New Isoindolo[1,3]benzothiazocinones *via* the Combination of *N*-Acyliminium Chemistry and Friedel-Crafts Type π-Cyclization**

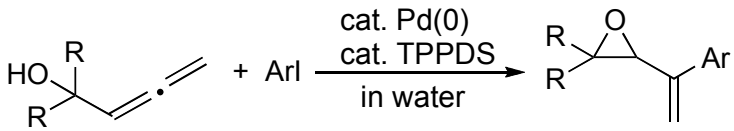
Armelle Cul, Adam Daïch,* Bernard Decroix, Gérard Sanz, and Luc Van Hijfte



N-Acyliminium Ion π-Cyclization Stereoselectivity Isoindolinone [1,3]Benzothiazocinone

41 **Palladium-catalyzed Insertion-Cyclization Reaction of 2,3-Dienyl Alcohols with Aryl Iodides in Water: Synthesis of 1-Arylvinyl-substituted Epoxides**

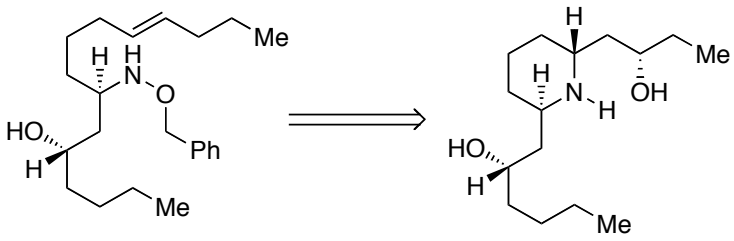
Masahiro Yoshida,* Takayuki Ishii, Takahiro Gotou, and Masataka Ihara*



Allenol Aryl Iodide Epoxide Palladium Water

45 **Iodine-induced Cyclizations of *N*-Alkoxyaminoalkenes. A Stereocontrolled Approach to *trans*-2,6-Disubstituted Piperidine Alkaloids**

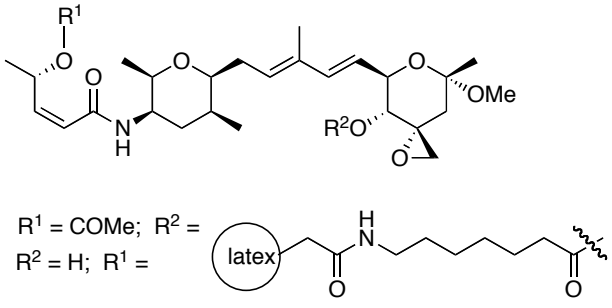
David R. Williams,* Martin H. Osterhout, and George S. Amato



trans-2,6-Disubstituted Piperidine Aminohalogenation 1,3-Amino Alcohol Intramolecular Stereoselective

51 **Synthesis of Affinity Nanoparticles Coupled to FR901464 Derivatives**

Yoshimasa Imamura, Yoshihiro Ohtsu, Hiroshi Tanaka, Mamoru Hatakeyama, Takashi Manabe, Haruma Kawaguchi, Hiroshi Handa,* and Takashi Takahashi*

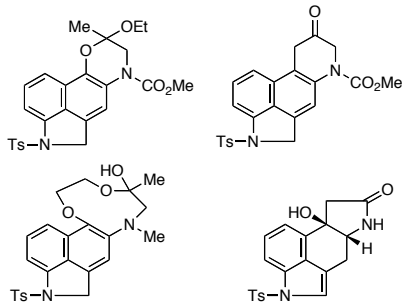


Chemical Genomics Affinity Purification Tetrahydropyran Latex Nano Particle FR901464

■ PAPERS

153 **Chemistry of Indoles Carrying a Basic Function. Part IX. Unexpected Cyclizations of Diketones Derived from Uhle's Ketone**

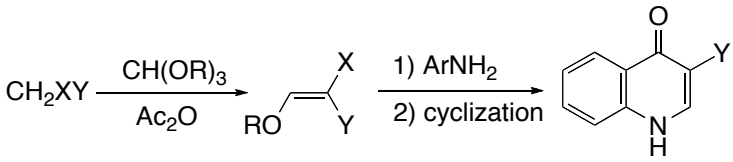
István Moldvai,* Eszter Gács-Baitz, Eszter Termesvári-Major, Mária Incze, László Poppe, and Csaba Szántay*



Alkaloid Ergoline Aldol Condensation Isomerization Cyclization

177 **Solvent-free Synthesis of Quinolone Derivatives**

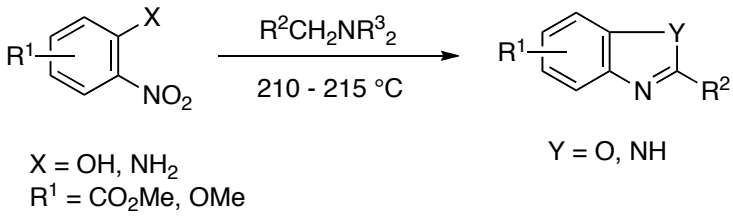
Petra Černuchová, Giang Vo-Thanh, Viktor Milata,* and André Loupy*



Solvent-free Reaction Microwave Activation Alkoxymethylene Quinolone Gould-Jacobs Reaction

193 **Novel Synthesis of Benzoxazoles from *o*-Nitrophenols and Amines**

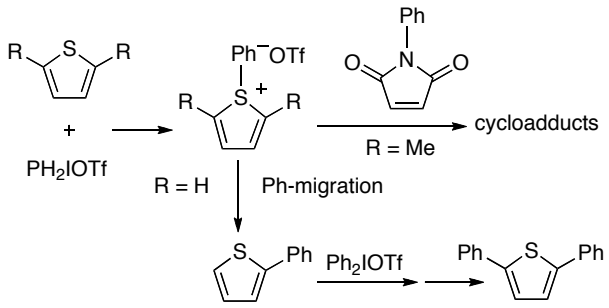
Hiromi Nishioka,* Yukiko Ohmori, Yumiko Iba, Eri Tsuda, and Takashi Harayama*



o-Nitrophenol Benzoxazole *o*-Nitroaniline Benzimidazole Diethylaniline

199 **Diels-Alder Reaction and Double Phenylation in Reaction of Thiophenes with Diphenyliodonium Triflate**

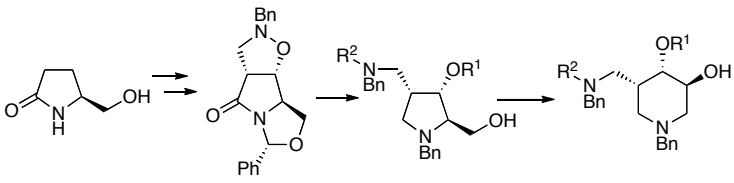
Bian-Xiang Zhang, Takato Nuka, Yuzo Fujiwara, Teizo Yamaji, Zhaomin Hou, and Tsugio Kitamura*



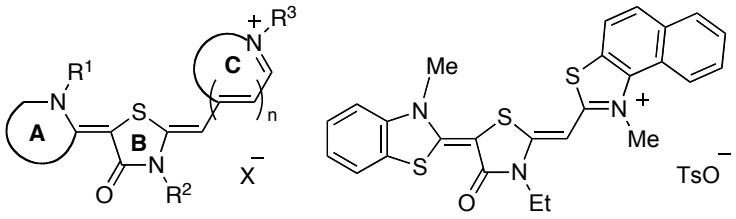
1-Phenylthiophenium Triflate Cycloaddition Phenyl Migration

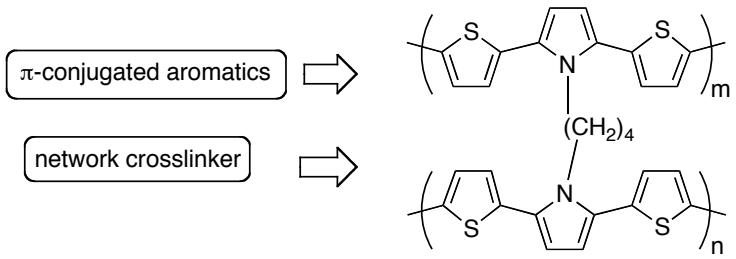
207 **Stereoselective Synthesis of 4-Aminomethyl-3-hydroxyprolinols and Ring Expansion into Enantiopure Polyfunctionalized Piperidines**

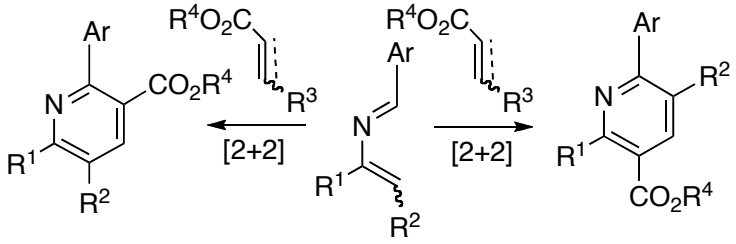
Abdallah Deyine, Jean-Marc Delcroix, and Nicole Langlois*

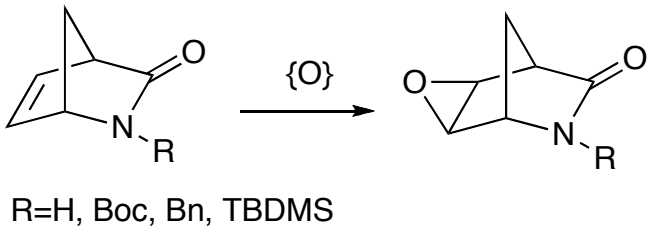


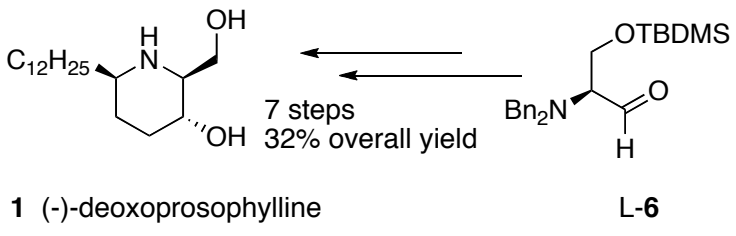
1,3-Dipolar Cycloaddition Ring Expansion Selective Reduction Pyrrolidine 3,4,5-Trisubstituted Piperidine







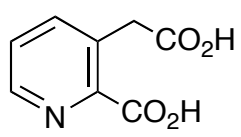




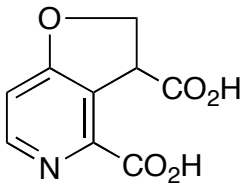
1 (-)-deoxoprosophylline L-**6**

261 **Synthesis of 2,3-Dihydrofuro[3,2-*c*]pyridine-3,4-dicarboxylic Acid, a Conformationally Constrained Analogue of the Subtype Selective NMDA Receptor Agonist Homoquinolinic Acid**

Marcus Vinicius Nora de Souza, Zhaohua Yan, and Robert H. Dodd*



homoquinolinic acid (HA)

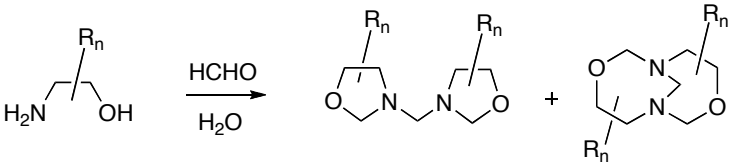


constrained form of HA

Radical Cyclization TEMPO Tributyltin Hydride Picolinic Acid

277 **Studies on the Condensation Products from *N*-Primary 1,2-Amino Alcohols and Formaldehyde**

David J. Aitken,* Laure Besson, Françoise Fournier, Henri-Philippe Husson, Pascale Lemoine, Denis Lesage, Francine Libot, Pierre-Guy Martin, Christelle Mellin-Morlière, Valérie Monnier, Jean-Claude Tabet, and Bernard Viossat

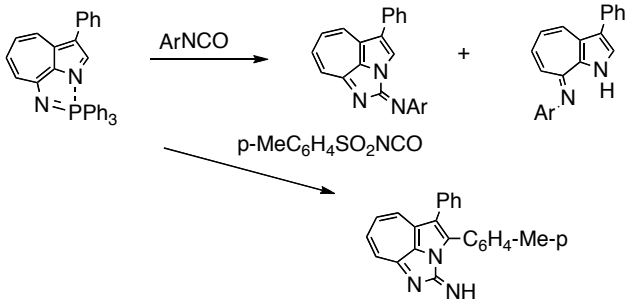


2:3 adducts, mainly

Condensation Reaction Bis(oxazolidine)methane 1,6-Diaza-3,8-dioxabicyclo[4.4.1]undecane Structural Analysis

291 **Reactions of 3-Phenyl-8-triphenylphosphoimino-1-azaazulene with Aryl Isocyanate, Aryl Isothiocyanate, and Carbon Disulfide**

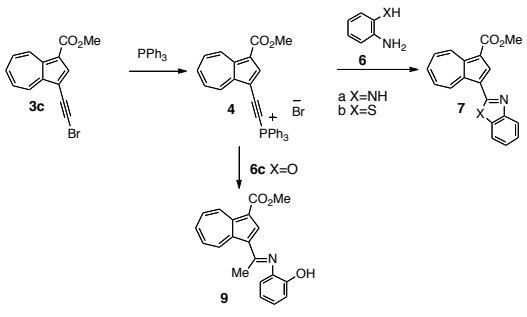
Kentaro Nagamatsu, Hiroyuki Fujii, Noritaka Abe,* and Akikazu Kakehi



Iminophosphorane Azaazulene Aza-Wittig Reaction Rearrangement X-Ray Structure Analysis

305 **Synthesis of Azulen-3-ylheterocyclic Compounds Using 2-(3-Methoxycarbonylazulen-1-yl)ethynyl-triphenylphosphonium Bromide**

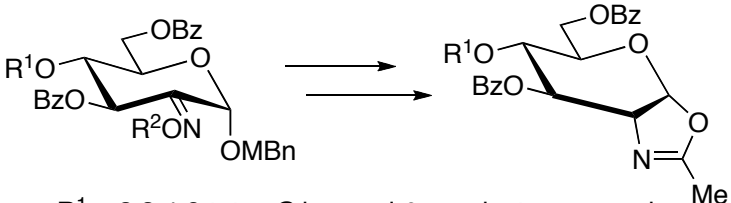
Noboru Morita,* Shiro Moriyama, Taku Shoji, Masashi Nakashima, Masataka Watanabe, Shigeru Kikuchi, Shunji Ito, and Kunihide Fujimori



3-(1*H*-Benzoimidazol-2-yl)-, 3-(Benzothiazo-2-yl)-, and 3-(1*H*-Perimidin-2-yl)azulene-1-carboxylate Ethynyltriphenylphosphonium Bromide

317 **Alternative Access to Lactosamine-derived Oxazoline *via* 2-Ulose Oxime as a Key Intermediate**

Eisuke Kaji,* Yumiko Osa, Naomi Shinohara, Chiho Yanagi, Masae Sekine, and Takashi Nishino

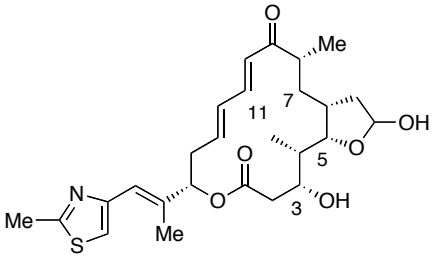


R^1 = 2,3,4,6-tetra-*O*-benzoyl-β-D-galactopyranosyl
R^2 = *p*-substituted benzoyl or acetyl

2-Oxazoline *N*-Acetyllactosamine 2-Ulose Oxime Stereoselective Reduction Cyclization

333 **Design and Synthesis of 16-Membered Hybrid Macrolide Having a Thiazole Side Chain on the Carbonolide Skeleton**

Noriyuki Nakajima* and Makoto Ubukata

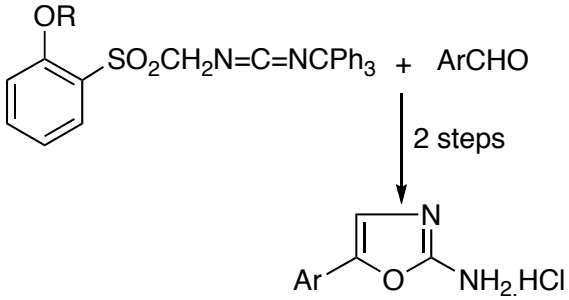


hybrid macrolide

Hybrid Macrolide Epothilone 16-Membered Lactone Thiazole Sidechain Wittig-Horner Macrolactonization

347 **Synthesis and Reactions of *N-o*-Anisylsulfonylmethyl- and *N-o-sec*-Butoxysulfonylmethylcarbodiimides with Aldehydes**

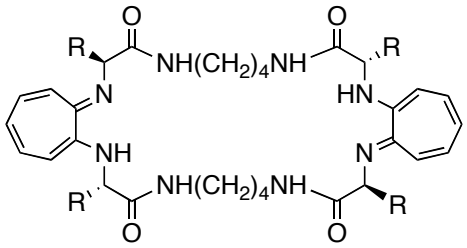
Vishnu K. Tandon,* Kunwar A. Singh, Sanjay Rai, and Albert M. van Leusen



Carbodiimide Mannich Reaction 2-Amino-1,3-oxazole Sulfinic Acid

357 **Optically Active Tropocoronands Having Amino Acid Residues in Linker Chains: Syntheses, Metal Coordination Properties, and Their Abilities as an Asymmetric Catalyst**

Ohki Sato* and Akira Tanbo

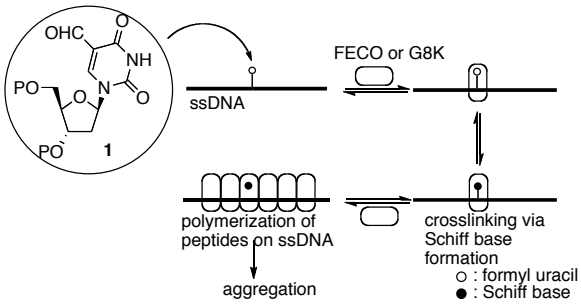


R = Me, *i*-Pr, CH_2Ph

Tropocoronand L-Amino Acid Metal Coordination Property Asymmetric Catalyst Conjugate Addition

367 **Schiff Base Formation between 5-Formyl-2'-deoxyuridine and Lysine ε-Amino Group at Monomer and Oligomer Levels**

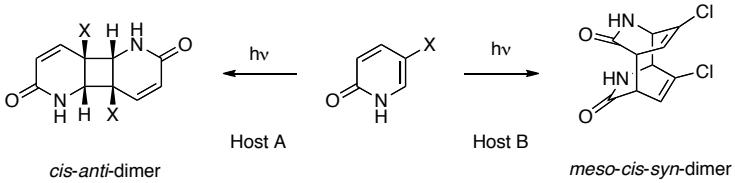
Atsushi Kittaka,* Chikafumi Horii, Hiromichi Tanaka, Tadashi Miyasaka, Kazuo T. Nakamura, Reiko Kuroda, and Toru Sugiyama*



5-Formyl-2'-deoxyuridine Schiff Base Mediated Crosslinking RecA Peptide DNA-Protein Interaction Aggregation

383 **New [2+2] and [4+4] Photodimerizations of 2-Pyridones in an Inclusion Complex with a Simple Carboxylic Acid Host: A Model of DNA Damage by Photodimerization of Its Thymine Component**

Shinya Hirano, Shinji Toyota, and Fumio Toda*



Host A Host B

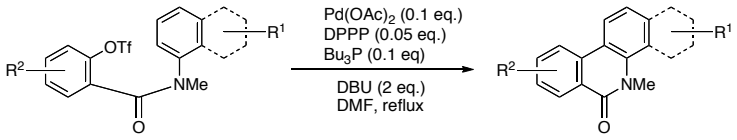
cis-anti-dimer *meso-cis-syn*-dimer

2-Pyridone Photodimerization Inclusion Complex DNA Damage

■ NOTES

463 **Intramolecular Pd-catalyzed Biaryl Coupling Reaction of *N*-Aryl-2-triflyloxybenzamides Using $Pd(OAc)_2$, 1,3-Bis[diphenylphosphino]propane, Bu_3P, and DBU**

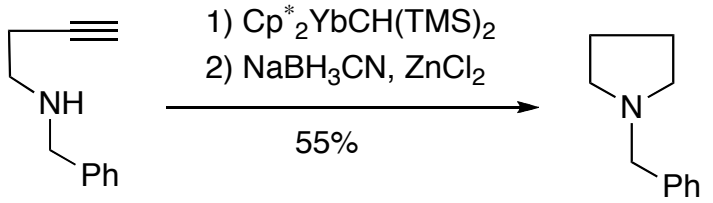
Hiromi Nishioka, Yoshimi Shoujiguchi, Hitoshi Abe, Yasuo Takeuchi, and Takashi Harayama*



Biaryl Coupling Aryl Triflate Pd-catalyzed Reaction Arene DBU

467 **Organolanthanide Catalyzed Intramolecular 5-*endo-dig* Hydroamination: An Unusual Anti-Markovnikov Cyclization**

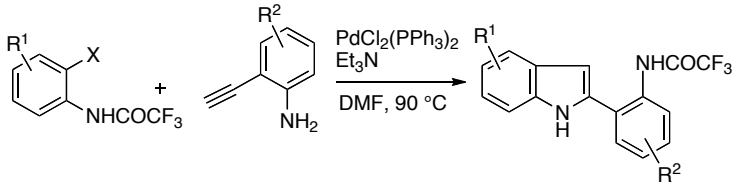
Gary A. Molander* and Hikaru Hasegawa



Hydroamination Lanthanocene Catalysis Cyclization Aminoalkyne

475 **2-(*o*-Aminoaryl)indole Derivatives *via* the Coupling-Cyclization of *o*-Alkynylanilines with *o*-Halotrifluoro-acetanilides in the Presence of a Palladium Catalyst**

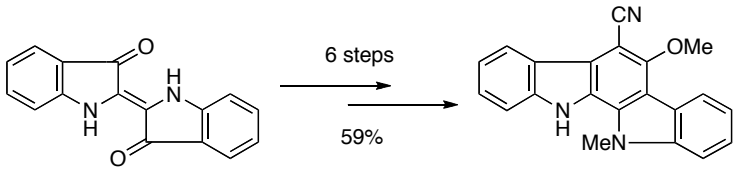
Antonio Arcadi, Sandro Cacchi,* Giancarlo Fabrizi, Fabio Marinelli, and Luca M. Parisi



Palladium Catalysis Cyclization Indole Alkyne

483 **Short Step Synthesis of an Antibiotic, 6-Cyano-5-methoxy-12-methylindolo[2,3-*a*]carbazole**

Masanori Somei,* Fumio Yamada, Yoshiaki Suzuki, Shinobu Ohmoto, and Hiroyuki Hayashi



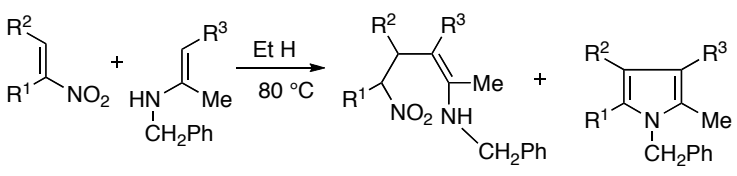
indigo

intellectual property factor (IPF): 53.8
application potential factor (APF): 100
originality rate (OR): 57%

6-Cyano-5-methoxy-12-methylindolo[2,3-*a*]carbazole Intellectual Property Factor Application Potential Factor Originality Rate

491 **Combinatorial Chemical Synthesis of 4-Heteroaryl-3-substituted Pyrroles from Nitroalkenes**

Clara Baldoli, Giuseppe Cremonesi, Concetta La Rosa, Piero Dalla Croce,* and Emanuela Licandro



Pyrrole Nitroalkene Enamine Nitrile Combinatorial Chemical Synthesis

■ REVIEWS

■ INDEXES