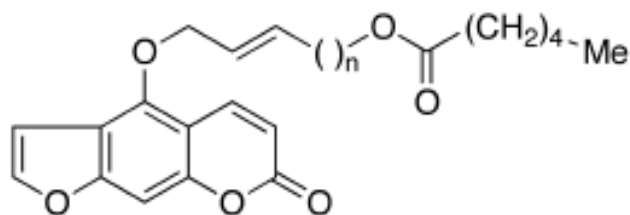


■ COMMUNICATIONS

1 Synthetic Models Related to Furanocoumarin-CYP 3A4 Interactions. Synthesis of Furanocoumarin Derivatives as Potent Inhibitors of CYP 3A4

Kazuaki Oda,* Yukio Tamai, Yuki Yamaguchi, Teruki Yoshimura, Keiji Wada, Minoru Machida, and Naozumi Nishizono*

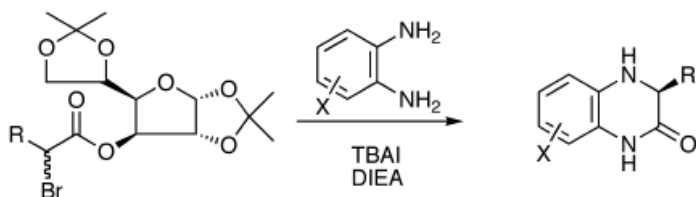


$n=1,3,5$ CYP3A4 $IC_{50}=0.071-0.073 \mu M$

IC_{50} Value Grapefruit Juice Furanocoumarin Monomer P450 Inhibitory Effect

5 Diacetone-D-glucose-Mediated Asymmetric Syntheses of Dihydroquinoxalinones

Yongtae Kim, Min Hee Lee, Eui Ta Choi, Eun Sun No, and Yong Sun Park*



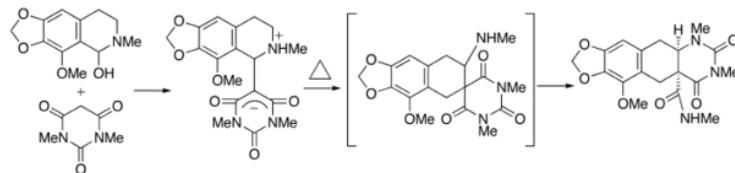
up to 98:2 er
90:10 regioisomeric ratio

Chiral Auxiliary Asymmetric Synthesis Nucleophilic Substitution Carbohydrate Dynamic Kinetic Resolution

■ PAPERS

13 Unconventional Recyclization of Cotarnine under the Action of 1,3-Dimethylbarbituric Acid

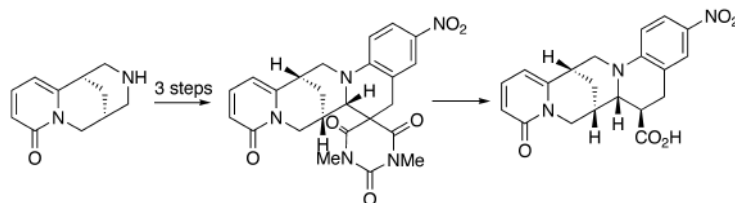
Konstantin A. Krasnov, Victor G. Kartsev,* and Viktor N. Khrustalev



Cotarnine 1,3-Dimethylbarbituric Acid Rearrangement T-Reaction XRD Analysis

19 Stereoselective Modification of Cytisine: T-Reaction for Construction of Benzoannulated Anagryne Skeleton

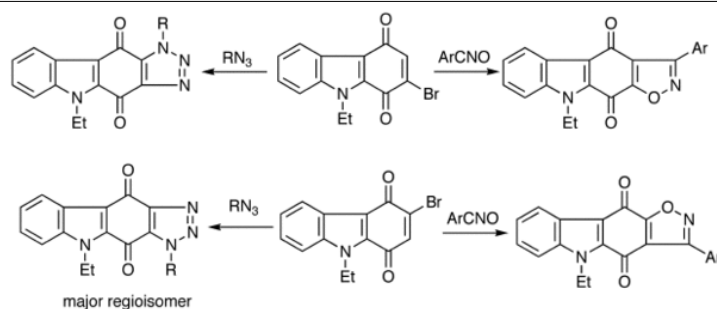
Konstantin A. Krasnov and Victor G. Kartsev*



Cytisine 2-Chloro-5-nitrobenzaldehyde 1,3-Dimethylbarbituric Acid T-Reaction Anagryne Analogue

27 Regioselectivity in the 1,3-Dipolar Cycloaddition Reactions of Nitrile Oxides and Organic Azides with Bromocarbazole-1,4-diones

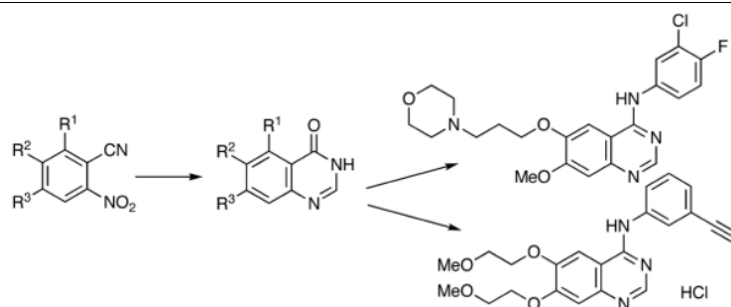
Muriel Compain-Batissou, Jacques Gentili, Nadia Walchshofer, Monique Domard, Bernard Fenet, and Zouhair Bouaziz*



Bromoquinone Regiocontrolled Cycloaddition Isoxazolocarbazole Triazolocarbazole Heterocyclic Quinone

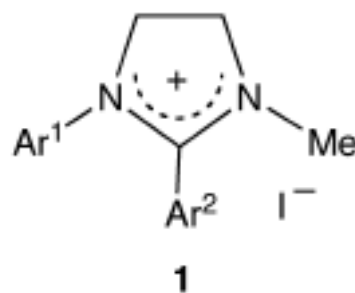
39 One-Pot Conversion of 2-Nitrobenzonitriles to Quinazolin-4(3*H*)-ones and Synthesis of Gefitinib and Erlotinib Hydrochloride

Venkateshappa Chandregowda, Gudapati Venkateswara Rao, and Goukanapalli Chandrasekara Reddy*


 Quinazolin-4(3*H*)-one Gefitinib (Iressa®) Erlotinib HCl (Tarceva®) One-Pot Synthesis 2-Nitrobenzonitrile

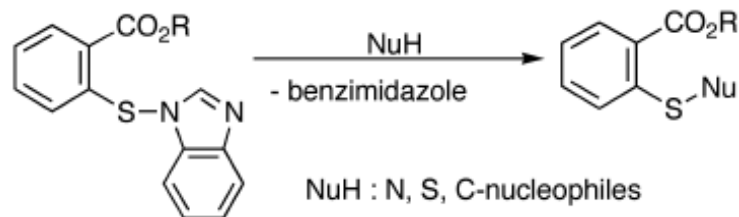
49 ¹H and ¹³C NMR Analysis of a 1,2-Diaryl-3-methyl-4,5-dihydro-1*H*-imidazolium Salts Series

Isabel Perillo, Maria C. Caterina, Carlos de los Santos, and Alejandra Salerno*


 4,5-Dihydro-1*H*-imidazole Non-birayl Antropisomer Chiral Axis

61 *M*-(2-Alkoxybenzenesulfonyl)benzimidazoles as Nitrogen-, Sulfur-, and Carbon-Sulfonylation Reagents

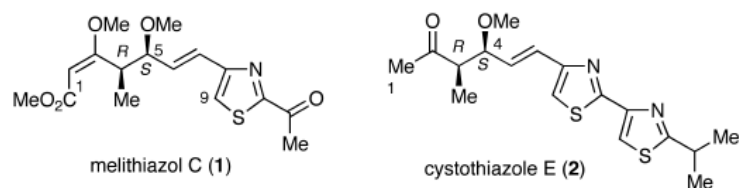
Masao Shimizu,* Hidenori Fukazawa, Jun'ichi Inoue, Yoshimoto Abe, and Takeo Konakahara



Sulfonylation Benzimidazole Sulfenamide Disulfide Sulfide

75 Total Synthesis of (4*R*,5*S*)-Melithiazol C and (3*R*,4*S*)-Cystothiazole E

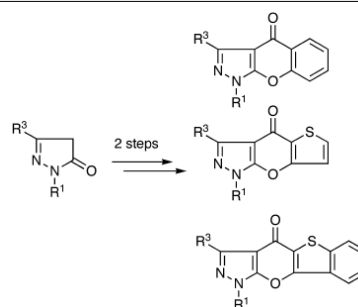
Hiroyuki Takayama, Keisuke Kato, Masayuki Kimura, and Hiroyuki Akita*



Melithiazole Cystothiazole Thiazole Natural Product Synthesis Antibiotic

87 Tri- and Tetracyclic Heteroaromatic Systems: Synthesis of Novel Benzo-, Benzothieno- and Thieno-Fused Pyrano-[2,3-*c*]pyrazol-4(1*H*)-ones

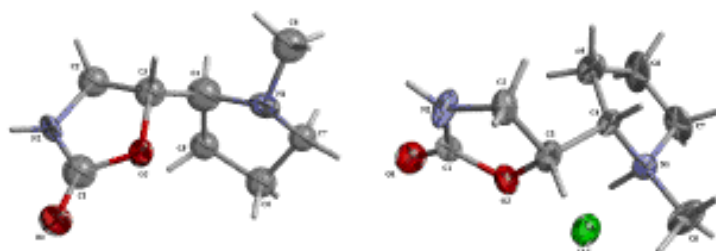
Gernot A. Eller,* Andreas W. Haring, Barbara Datterl, Maryam Zwettler, and Wolfgang Holzer*



Pyrazolone Acylation Fused-Ring System Cyclization NMR Spectroscopy

105 Structural and Conformational Studies on 5-[1'-Methylpyrrolidin-2'-yl]-1,3-oxazolidin-2-one Free Base and Hydrochloride Form

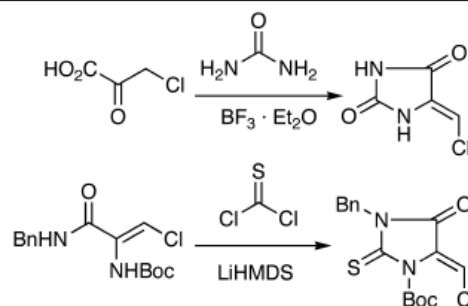
Fiorella Meneghetti, Roberto Artali, Marco Pallavicini, Ermanno Valoti, and Gabriella Bombieri*



Nicotinic Agonist Isomer X-Ray Structure Conformer Docking

117 Synthesis of 5-Chloromethylene Hydantoins and Thiohydantoins

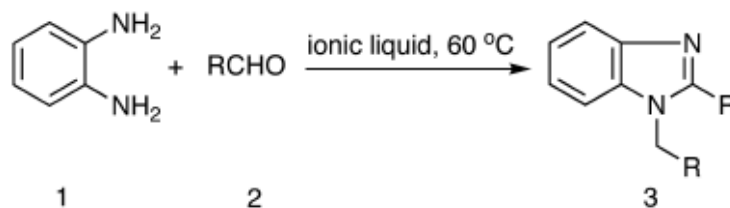
Timothy A. Cernak and James L. Gleason*



Hydantoin Thiohydantoin Vinyl Chloride Dehydroalanine Aminomethylation

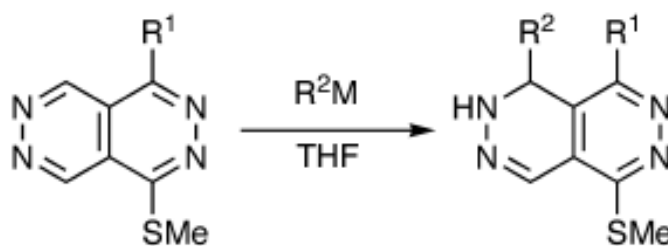
135 Selective Synthesis of 2-Aryl-1-arylmethyl-1*H*-1,3-benzimidazoles Promoted by Ionic Liquid

Huiqiang Ma, Yulu Wang,* Jianping Li, and Jinye Wang*


o-Phenylenediamine Benzimidazole Ionic Liquid Aldehyde

141 The Selective Functionalization of Pyridazino[4,5-*d*]pyridazines Using Polar Organometallic Reagents

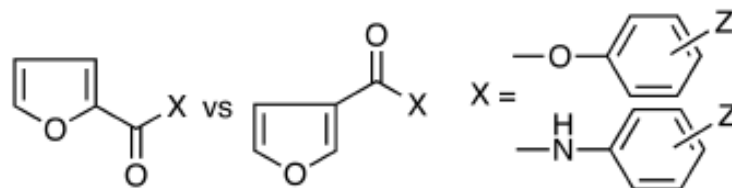
Tibor Zs. Nagy, Krisztián Lőrincz, Antal Csámpai,* and András Kotschy*


 M: Li, MgX; R¹: SMe, pyrazolyl

 Pyridazino[4,5-*d*]pyridazine Polar Organometallic Reagent Nucleophilic Addition Regioselectivity Directive Effect

153 Positional Effect on the NMR Spectroscopy of Esters and Amides of 2- and 3-Furancarboxylic Acids

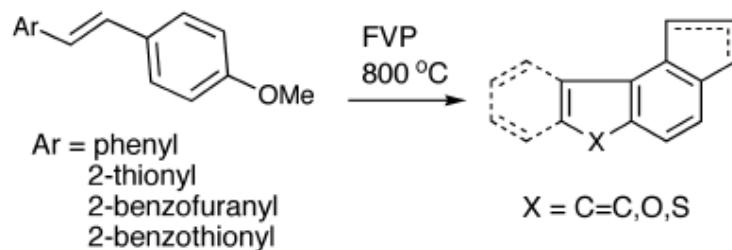
Kyu Ok Jeon, Ji Sook Yu, and Chang Kiu Lee*



Furoate Furan Amide Hammett Correlation Chemical Shift

NOTES
165 Synthesis of Areno[e]indenes by the Flash Vacuum Pyrolysis of 4-Methoxystyrylarenes

Li-Tse Chu, Pin-Chih Yu, Bo-Jian Wu, Ying-Chi Liao, and Chin-Hsing Chou*



Areno[e]indene Flash Vacuum Pyrolysis Electrocyclization Ring Contraction Polycyclic Aromatic Hydrocarbon

175 Reactions of Some Dithiinodiquinoline 7-Oxides with Potassium Phenoxide

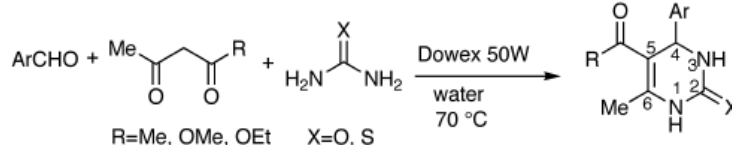
Maria J. Maślankiewicz and Andrzej Maślankiewicz*



1,4-Dithiin Quinolinyll Sulfide Quinolinyll Sulfoxide Nucleophilic Heteroaromatic Substitution 4-Phenoxyquinoline

181 Dowex 50W in Aqueous Medium: Highly Efficient Biginelli Condensation Procedure for the Synthesis of 4-Aryl-3,4-dihydropyrimidones

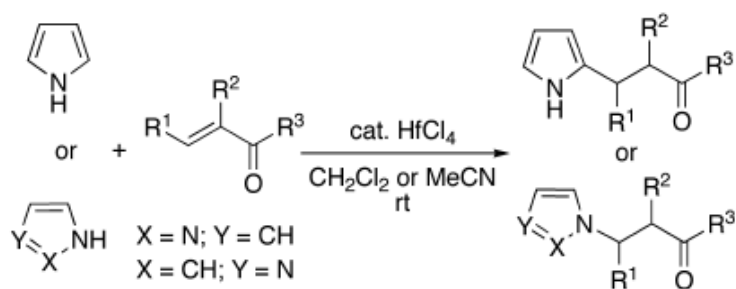
Chhanda Mukhopadhyay,* Arup Datta, and Bimal K. Banik



Biginelli Condensation 4-Aryl-3,4-dihydropyrimidone Dowex 50W Green Catalyst Aqueous Medium

189 Hafnium Chloride Catalyzed Conjugate Addition of Pyrrole, Pyrazole and Imidazole to α,β -Unsaturated Ketones

Sachiko Aburatani, Motoi Kawatsura, and Jun'ichi Uenishi*



Hafnium Chloride Conjugate Addition Lewis Acid Catalytic Reaction 5-Membered Nitrogen Heterocycle

■ NEW HETEROCYCLIC NATURAL PRODUCTS

- 197 Polyketides
- 200 Aromatics
- 211 Terpenes
- 227 Steroids
- 229 Alkaloids
- 240 Miscellaneous