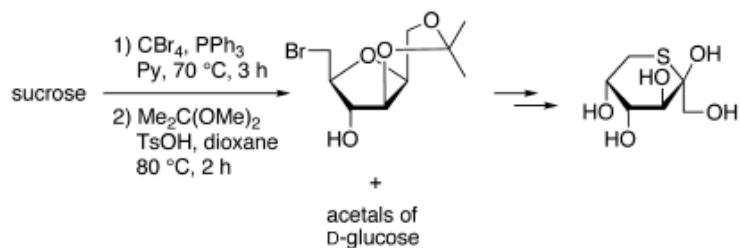


■ COMMUNICATION

517 The First Chemical Synthesis of 6-Thio-D-fructopyranose via Methyl 6-Bromo-6-deoxy-1,3-O-isopropylidene- α -D-fructofuranoside as a Key Intermediate

Tadashi Hanaya,* Nobuaki Sato, and Hiroshi Yamamoto

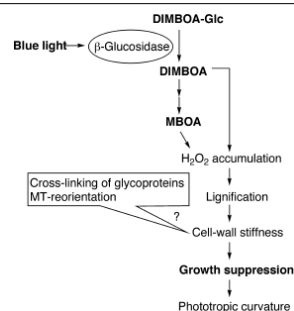


Thiosugar D-Fructopyranose Analog Acetalization of Sucrose Selective Bromination D-Fructofuranoside

■ PAPERS

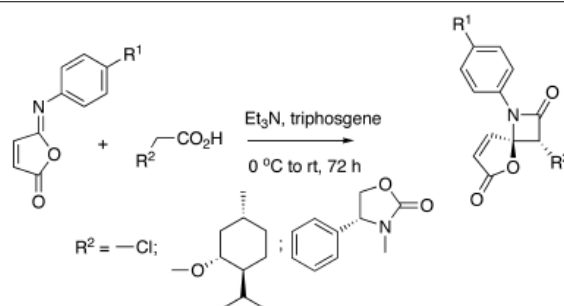
523 Direct Involvement of Benzoxazinoids in the Growth Suppression Induced by Phototropic Stimulation in Maize Coleoptiles

Riffat Jabeen, Kosumi Yamada,* Tsuyoshi Hasegawa, Eiichi Minami, Hideyuki Shigemori, and Koji Hasegawa


 Blue Light Phototropism Hydrogen Peroxide *Zea mays* Plant Growth Inhibitor

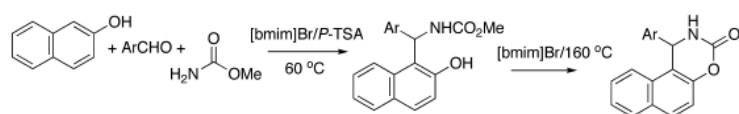
531 Diastereoselective Synthesis of Spiro- β -lactams via Staudinger Reaction

Susana Rojas-Lima,* Lidia Santillán-Sid, Heraclio López-Ruiz, and Alejandro Álvarez-Hernández


 Isomaleimide Spiro- β -lactam Staudinger Reaction Triphosgene Regioselective

543 A Simple and Environmentally Benign Method for the Synthesis of Naphthoxazin-3-one Derivatives

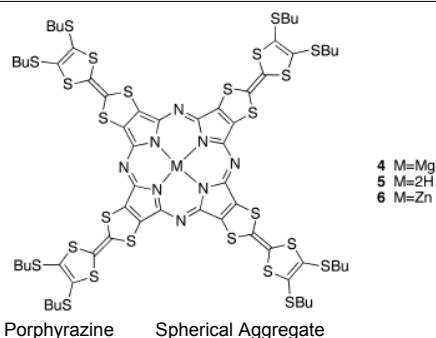
Minoob Dabiri, Akram Sadat Delbari, and Ayoob Bazgir*



Naphthoxazinone Naphthol Ionic Liquid Carbamate Methyl Carbamate

549 Synthesis and Aggregation of Tetrathiafulvalene-Annulated Porphyrazines

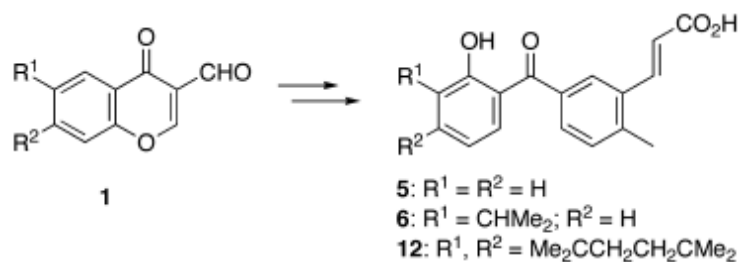
Tie Chen, Chunlan Wang, Han Qui, Longyi Jin, Bingzhu Yin,* and Kimiaki Imafuku*



2,3-Dicyanotetrathiafulvalene Porphyrazine Macrocyclization TTF-Annulated Porphyrazine Spherical Aggregate

557 Wittig-Horner-Emmons Reactions of Triethyl-3-methylphosphonocrotonate with 3-Formylchromones En Route to Benzophenone-Based Retinoid Candidates

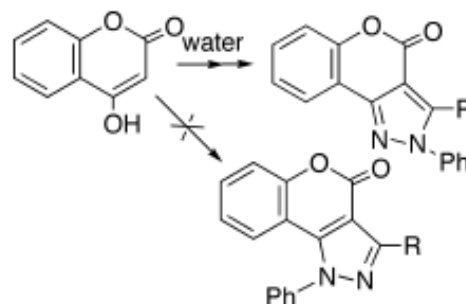
Weilin Sun, Shyam Desai, Huri Piao, Patrick Carroll, and Daniel J. Canney*



Wittig-Horner-Emmons Reaction 3-Formylchromone Benzophenone Retinoid Rearrangement

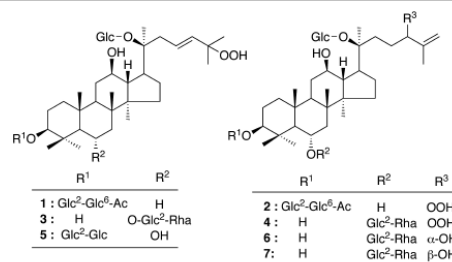
569 A Convenient K₂CO₃ Catalysed Regioselective Synthesis for Benzopyrano[4,3-*c*]pyrazoles in Aqueous Medium

Mazaahir Kidwai,* Priya Singhal, Kavita Singhal, and Shweta Rastogi


 Benzopyrano[4,3-*c*]pyrazole Microwave Water Potassium Carbonate Regioselectivity

577 Structures of Dammarane-Type Triterpene Triglycosides from the Flower Buds of *Panax ginseng*

Seikou Nakamura, Sachiko Sugimoto, Hisashi Matsuda, and Masayuki Yoshikawa*

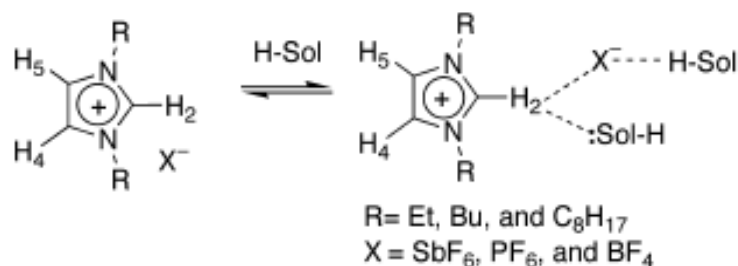


Glc: β-D-glucopyranosyl, Ara(f): α-L-arabinofuranosyl, Ara(p): α-L-arabinopyranosyl, Rha: α-L-rhamnopyranosyl

Panax ginseng Medicinal Flower Dammarane-Type Triterpene Triglycoside Hydroperoxide Ginseng Flower

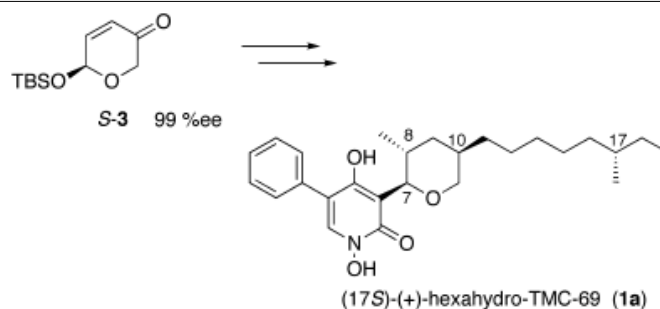
589 Solvation Effects on Imidazolium Salts That Contain Alkyl Side Chains

Allan D. Headley,* S. R. S. Saibabu Kotti, and Bukuo Ni


 Ionic Liquid Solvation Effect ¹H NMR Spectroscopy Structure-Property Relationship

597 A Total Synthesis of (17*S*)-Hexahydro-TMC-69

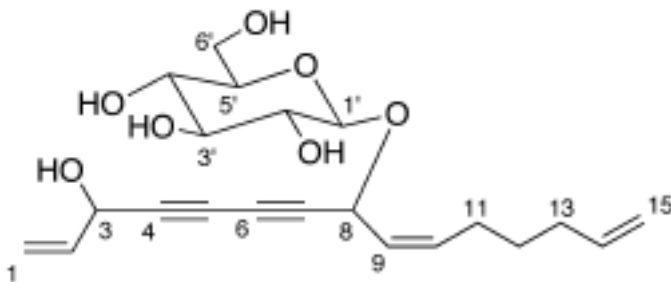
Kazutoshi Sugawara,* Yasuhiro Imanishi, and Tomiki Hashiyama



TMC-69 cdc25A Protein Phosphatase Inhibitor Total Synthesis Knoevenagel Reaction

609 Isolation and Structure Elucidation of a Potent Growth Inhibitor, Helian, from Blue Light-Illuminated Sunflower (*Helianthus annuus*) Hypocotyls

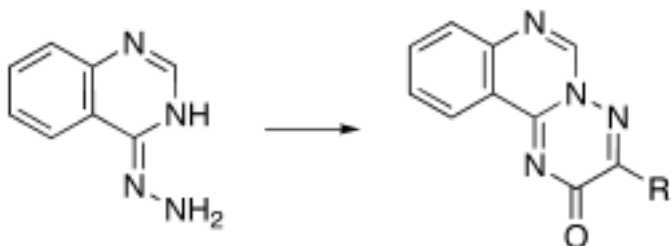
Tsuyoshi Hasegawa, Shigenori Togo, Yosuke Hisamatsu, Kosumi Yamada,* Kiyotake Suenaga, Mitsuhiro Sekiguchi, Hideyuki Shigemori, and Koji Hasegawa



Blue Light Growth Inhibitor Helian Phototropism Sunflower

619 A New One-Step Synthesis of 1,2,4-Triazino[2,3-*c*]-quinazolines

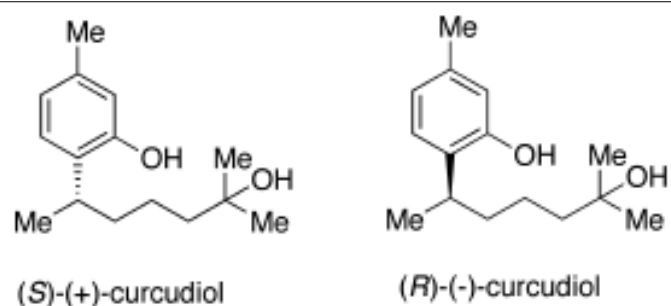
Oleksandr V. Karpenko,* Sergiy I. Kovalenko, Oleksiy O. Chekotylo, and Svitlana V. Shishkina



4-Hydrazinoquinazoline Cyclocondensation Rearrangement X-Ray Crystallographic Study

627 Total Synthesis of (*S*)-(+)- and (*R*)-(-)-Curcudiols Based on 1,2-Aryl Migration *via* Phenonium Ion

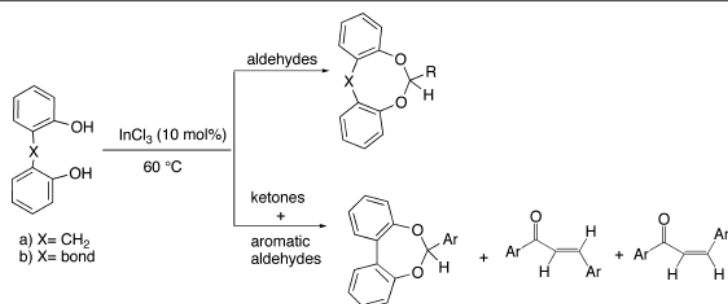
Takeru Ehara, Hirofumi Yokoyama, Machiko Ono, and Hiroyuki Akita*



Bisabolane Sesquiterpene 1,2-Aryl Migration Curcudiol Total Synthesis

635 Chemoselective Synthesis of New Dibenzo[*d,f*]-1,3-dioxepines and 12*H*-Dibenzo[*d,g*]-1,3-dioxocines

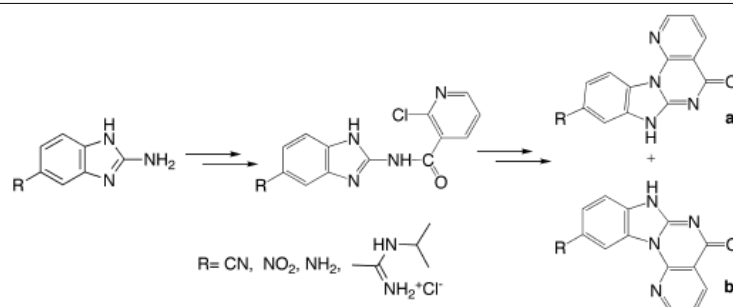
Graziella Tocco,* Michela Begala, Gabriele Meli, and Gianni Podda



Heterocycle Aldehyde Chemoselectivity Lewis Acid Indium(III) Chloride

647 Synthesis and Cytostatic Evaluation of Pyridopyrimidobenzimidazole Derivatives

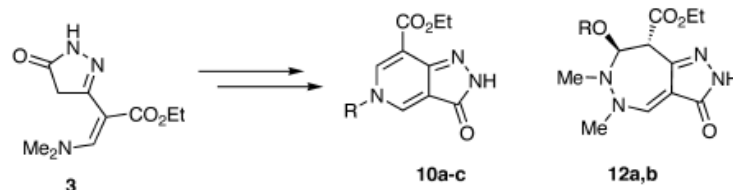
Kristina Starčević, Marijeta Kralj, Katja Ester, and Grace Karminski-Zamola*



Heterocycle 2-Aminobenzimidazole Pyridopyrimidobenzimidazole Biological Activity Antitumor Activity

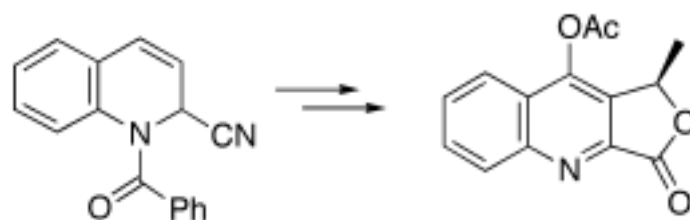
NOTES
657 Synthesis of 2-Unsubstituted 2,3,5,6,7,8-Hexahydro-pyrazolo[4,3-*d*][1,2]diazepinone-8-carboxylates

David Bevk, Jurij Svete, and Branko Stanovnik*


 Pyrazole Pyrazolo[4,3-*d*][1,2]diazepine Pyrazolo[4,3-*d*]pyridine (5-Oxo-4,5-dihydro-1*H*-pyrazol-3-yl)acetate

669 Synthesis of a 9-Aza Analogue of Eleutherol

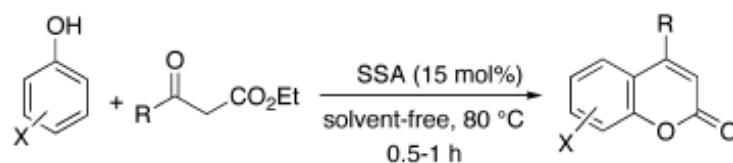
Norman O. Townsend and Yvette A. Jackson*



Intramolecular Acylation Dihydrokynurenic Acid

677 Silica Sulfuric Acid as an Efficient and Reusable Catalyst for the Pechmann Synthesis of Coumarins under Solvent-Free Conditions

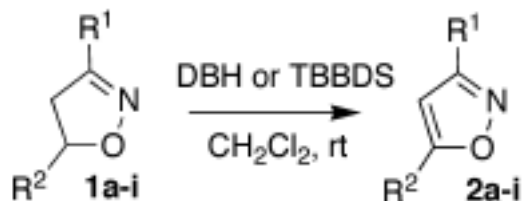
Minoo Dabiri,* Peyman Salehi,* Mohammad Ali Zolfigol, and Mostafa Baghbanzadeh



Heterocycle Coumarin Pechmann Synthesis Solvent-Free Conditions Silica Sulfuric Acid

- 683 **Oxidative Aromatization of 3,5-Disubstituted Isoxazolines to the Corresponding Isoxazoles with *N,N,N,N*-Tetrabromobenzene-1,3-disulfonamide (TBBDS) and 1,3-Dibromo-5,5-dimethylhydantoin (DBH) as Efficient Reagents under Mild Reaction Conditions**

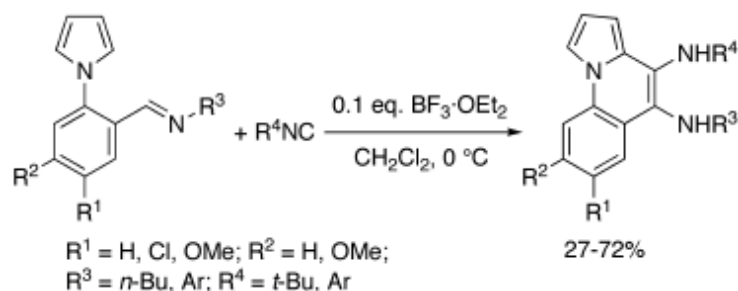
Davood Azarifar,* Behrooz Maleki, and Kobra Mohammadi



Oxidation Isoxazoline *N,N,N,N*-Tetrabromobenzene-1,3-disulfonamide 1,3-Dibromo-5,5-dimethylhydantoin Isoxazole

- 691 **Synthesis of 4,5-Diaminopyrrolo[1,2-*a*]quinoline Derivatives by a Lewis Acid Catalyzed Reaction of 2-(Pyrrol-1-yl)benzaldimines with Isocyanides**

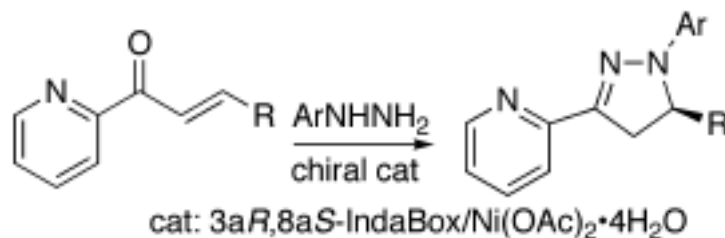
Kazuhiro Kobayashi,* Yasutoshi Himei, Yuichi Izumi, Shuhei Fukamachi, Osamu Morikawa, and Hisatoshi Konishi



Boron Trifluoride Isocyanide Pyrrolo[1,2-*a*]quinoline 2-(Pyrrol-1-yl)benzaldehyde 2-(Pyrrol-1-yl)benzalimine

- 699 **Synthesis of 3-(2-Pyridyl)-2-pyrazoline Derivatives as Candidates for Heterocyclic Chiral Ligands of the Chirality Relay Types**

Hiroshi Yanagita and Shuji Kanemasa*



Heterocyclic Chiral Ligand Chiral Ligand of Chirality Relay Type Enantioselective Conjugate Addition of Hydrazine Synthesis of Chiral 2-Pyrazoline

■ NEW HETEROCYCLIC NATURAL PRODUCTS

- 711 Polyketides
 714 Aromatics
 728 Terpenes
 747 Steroids
 752 Alkaloids
 760 Miscellaneous