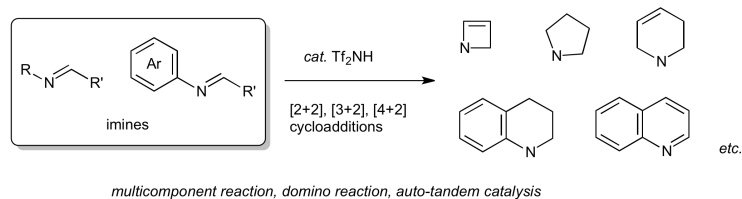


■ REVIEW

 195 **Synthesis of Azaheterocycles and Related Molecules by Tf₂NH-Catalyzed Cycloadditions**

Naoya Shindo and Kiyosei Takasu*

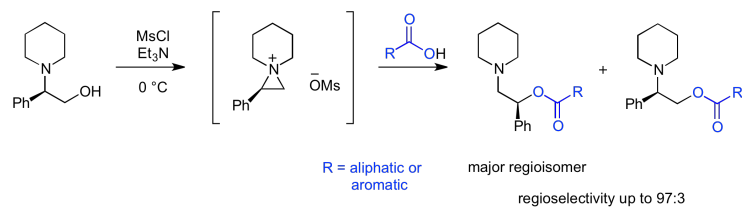


Cycloaddition Reaction Triflic Imide Multicomponent Reaction Auto-Tandem Catalysis Azaheterocycle

■ PAPERS

 219 **Highly Regioselective Ring Opening of a Common N,N-Dialkylaziridinium Ion by Carboxylic Acids**

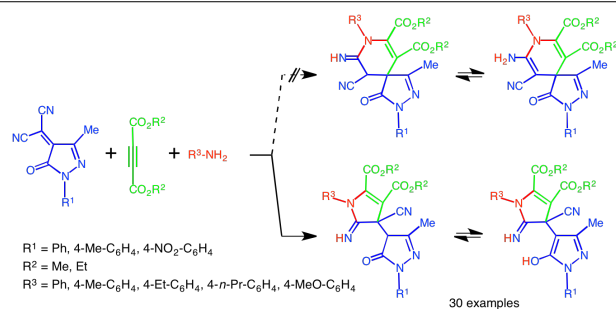
Ulises Hernández, Manuel Velasco, Jaime Vázquez, Joel L. Terán, Dino Gnecco, María L. Orea, David M. Aparicio, and Jorge R. Juárez*



Aziridinium Ring Opening Reaction Regioselective Ring Opening Reaction Carboxylate Nucleophile Piperidine Ring

 233 **One-Pot Three-Component Synthesis of Novel Pyrazole-2,3-pyrroledicarboxylic Acid 2,3-Diesters**

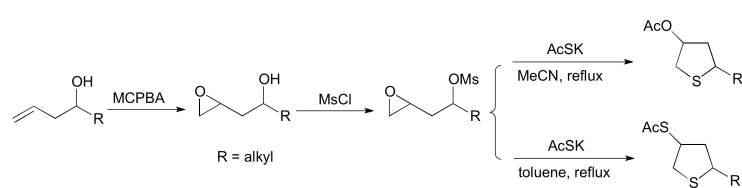
Emi Shirouzu, Eiichi Masumoto, Fumi Okabe-Nakahara, Kenji Yamagata, and Hiroshi Maruoka*



Pyrazole Pyrrole Multicomponent Reaction Dicyanomethylene Aniline

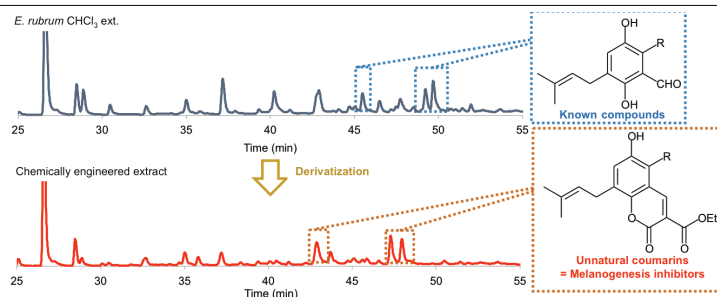
 254 **Syntheses of 4-Acetoxy- or Acetylthio-2-substituted Tetrahydrothiophene**

Yaxi Li, Rui Ding, Yongguo Liu, Bianbian Ma, Baoguo Sun, and Hongyu Tian*



1-Alken-4-ol Epoxidation Mesylation 4-Acetoxy-2-alkyltetrahydrothiophene 4-Acetylthio-2-aryltetrahydrothiophene

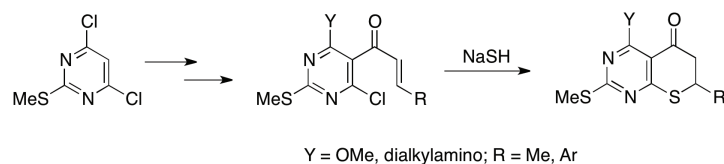
- 273 Coumarins with Anti-Melanogenesis Activities from a Chemically Engineered Extract of a Marine-Derived Fungus**
Hitoshi Kamauchi, Kaoru Kinoshita, and Kiyotaka Koyama*



Coumarin Chemically Engineered Extract Tyrosinase Melanogenesis Marine-Derived Fungus

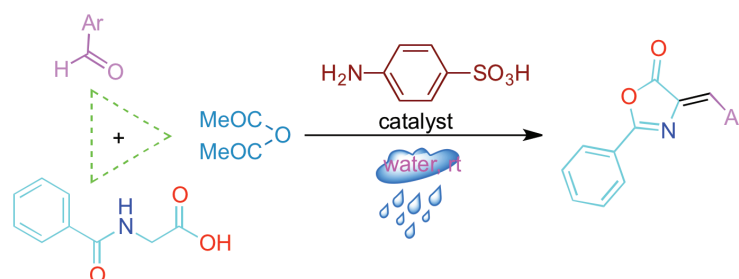
■ SHORT PAPERS

- 287 Synthesis of 6,7-Dihydro-5H-thiopyrano[2,3-d]-pyrimidin-5-one Derivatives Starting with 4,6-Dichloro-2-(methylsulfanyl)pyrimidine**
Kazuhiro Kobayashi,* Ryoga Ono, Kouki Ishitobi, Ikuma Murayama, Hidetaka Hiyoshi, and Kazuto Umezu



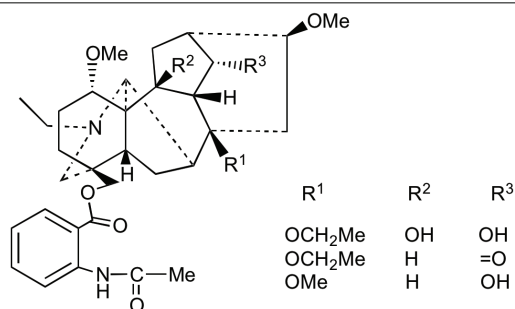
6,7-Dihydro-5H-thiopyrano[2,3-d]pyrimidin-5-one 4,6-Dichloro-2-(methylsulfanyl)pyrimidine (DCSMP) Sodium Hydrogensulfide Lithiation

- 297 Sulfanilic Acid-Catalyzed Green Synthesis of 4-Arylidene-2-phenyl-5(4H)-oxazolones**
Hamzeh Kiyani* and Shiva Aslanpour



Azlactone Cyclocondensation Reaction Sulfanilic Acid Hippuric Acid Green Synthesis

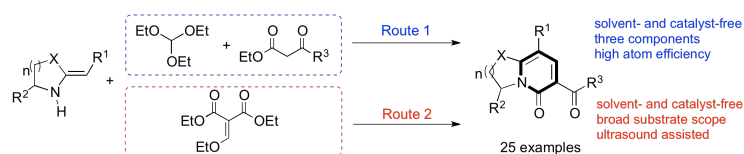
- 304 Three New C₁₉-Diterpenoid Alkaloids from *Aconitum apetalum***
Jifa Zhang, Lin Chen, and Xianli Zhou*



Diterpenoid Alkaloid *Aconitum apetalum* Cytotoxicity

311 An Efficient Solvent- and Catalyst-Free Synthesis of Bicyclic Pyridones with High Molecular Diversity via Cascade Reaction

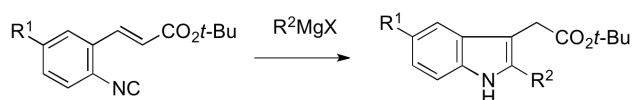
Huang-Mei Fu, Hong-Bin Wang, Li-Juan Yang, Wen-Rong Yang,* and Chao Huang*



Bicyclic Pyridone Cascade Reaction Solvent- and Catalyst-Free Synthesis Ultrasound Irradiation

324 Synthesis of 2,3-Disubstituted Indoles by Alkylative and Arylative Cyclization of 2-Alkenylphenylisocyanides with Grignard Reagents

Kazuo Yamazaki,* Yasutaka Tajima, Hitomi Tada, Yasuhito Kobayashi, Yutaro Miyamoto, Tomoko Ohkubo, and Masashi Ohba

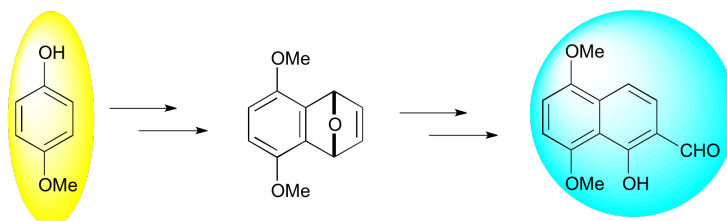


R¹ = H, Cl, CN
R² = Me, *i*-Pr, cyclohexyl, Ph, 4-ClC₆H₄, 4-MeOC₆H₄

Indole Isocyanide

334 An Efficient Synthesis of 1-Hydroxy-5,8-dimethoxy-2-naphthaldehyde

Qijing Zhang, Jinyun Dong, Guang Huang, and Shaoshun Li*



1-Hydroxy-2-naphthaldehyde Derivative Juglone Derivative Synthesis

■ TOTAL SYNTHESIS OF HETEROCYCLIC NATURAL PRODUCTS

- 339 Polyketides
- 340 Aromatics
- 342 Terpenes
- 344 Alkaloids
- 358 Miscellaneous

■ BRUSH UP YOUR HETEROCYCLES

359 Brush Up Your Heterocycles

■ ADDITIONS AND CORRECTIONS

379 Errata "Antiviral Activities of Some New 2,4,6-Trisubstituted 1,3,5-Triazines Having Alkoxy and/or Alkylamino Groups": HETEROCYCLES, 2017, 94, 1653, DOI: 10.3987/COM-17-13735
Nobuko Mibu, Kazumi Yokomizo, Ai Yuzuriha, Marie Otsubo, Yuna Kawaguchi, Marina Sano, Izumi Sakai, Keita Nakayama, Jian-Rong Zhou, and Kunihiro Sumoto*

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