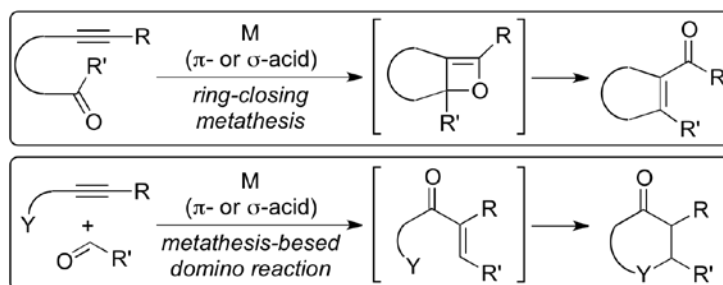


## ■ REVIEW

 607 **Syntheses of Heterocycles via Alkyne-Carbonyl Metathesis of Unactivated Alkynes**

Akio Saito\* and Keiichiro Tateishi



Alkyne-Carbonyl Metathesis

Domino Reaction

Enone

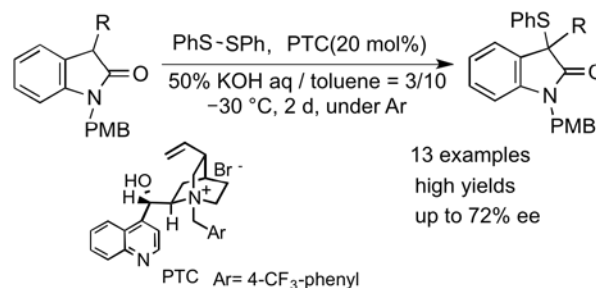
Ring-Closing Reaction

Ring-Expansion Reaction

## ■ COMMUNICATION

 631 **Phase-Transfer Catalyzed Sulfenylation of 3-Substituted -2-oxindoles**

Kazuhiro Nagata, Daisuke Sano, Osamu Aoyama, Takuya Kanemitsu, Michiko Miyazaki, Yuki Odanaka, Ayano Machida, and Takashi Itoh\*


 13 examples  
high yields  
up to 72% ee

3-Substituted-2-oxindole

Asymmetric Sulfenylation Reaction

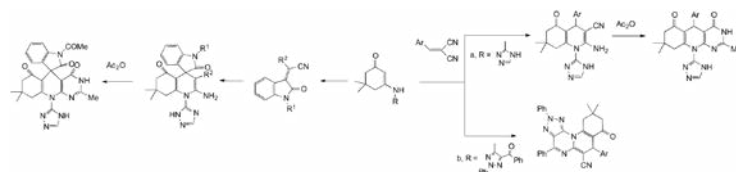
Phase-Transfer Catalyst

Radical Reaction

## ■ PAPERS

 637 **An Efficient Synthesis of 1-(4*H*-1,2,4-Triazol-3-yl)-Hexahydroquinoline-3-carbonitrile and their Spiro Derivatives from  $\beta$ -Enaminones**

Said A. S. Ghozlan, Doaa M. Abdelmoniem, Mohamed F. Mady, Amr M. Abdelmoniem, and Ismail A. Abdelhamid\*


*N*-((1,2,4-Triazol-3-yl)enamine

*N*-((1,2,3-Triazol-4-yl)enamine

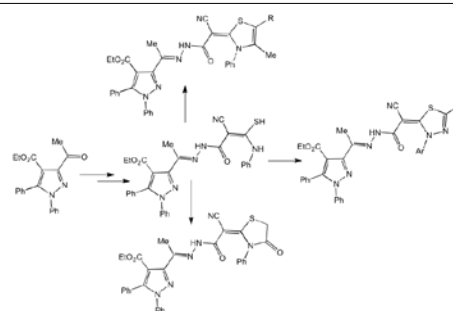
 $\alpha,\beta$ -Unsaturated Nitrile

Quinoline

Spirooxindole

**649 Synthesis of Some Novel Thiadiazoles and Thiazoles Linked to Pyrazole Ring**

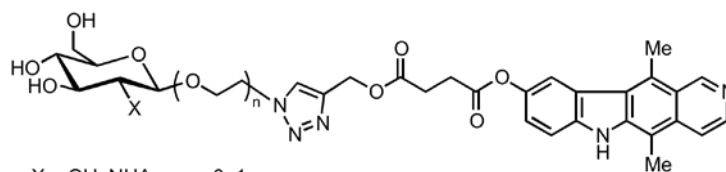
Magda A. Abdallah, Sobhi M. Gomha,\* Mohamad R. Abdelaziz, and Nany S. Eldin Serag



Acetylpyrazole    Thioanilide    Thiazole    Thiadiazole    Hydrazonoyl Halide

**664 Synthesis and *in vitro* Antitumor Activity of 9-Hydroxyellipticine Derivatives with Glucose Conjugation via Triazolymethyl Succinate Linker**

Naoya Sato, Yu Kawai, Yosuke Akaba, Shoji Honma, Norio Sakai, and Takeo Konakahara\*



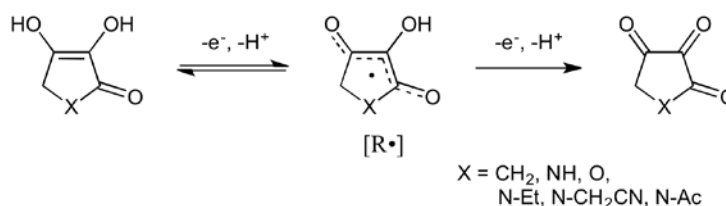
X = OH, NHAc, n = 0, 1

synthesis and *in vitro* antitumor activity of 9-hydroxyellipticine derivatives with glucose conjugation

Synthesis    Ellipticine    Glucose Conjugate    Antitumor Activity    Water Solubility

**680 Antioxidant Activity of Ascorbic Acid Analogs Containing a Nitrogen Atom in the Ring**

Shogo Nomura, Keiko Inami, and Masataka Mochizuki\*

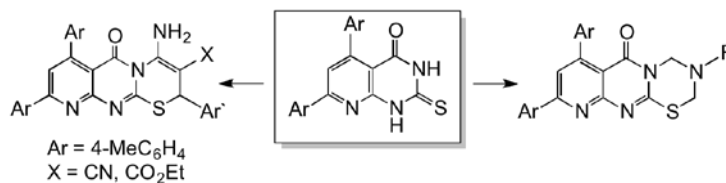


X = CH<sub>2</sub>, NH, O, N-Et, N-CH<sub>2</sub>CN, N-Ac

Antioxidant    Ascorbic Acid    Cyclic Voltammetry    Differential Pulse Voltammetry    Oxidation Potential

**688 Application of Mannich and Michael Reactions in Synthesis of Pyridopyrimido[2,1-b][1,3,5]thiadiazinones and Pyridopyrimido[2,1-b][1,3]thiazinones as Anticancer Agents**

Sobhi M. Gomha,\* Magda A. Abdallah, Mahmoud A. Morad, and Mahmoud M. Elaasser



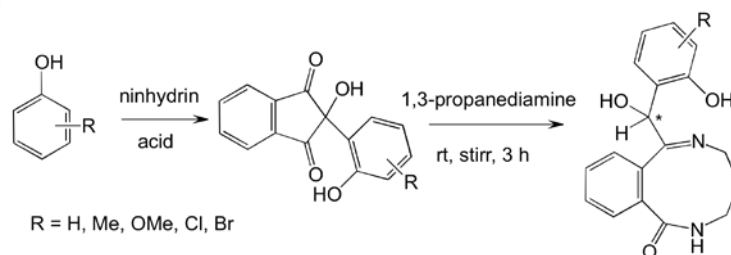
Ar = 4-MeC<sub>6</sub>H<sub>4</sub>  
X = CN, CO<sub>2</sub>Et

Mannich Reaction    Michael Reaction    1,3,5-Thiadiazine    Pyrimidothiazinone    Anticancer Activity

## ■ SHORT PAPERS

**701 A Simple Synthesis of Benzodiazonines from C-2 Arylated 1,3-Indanediones**

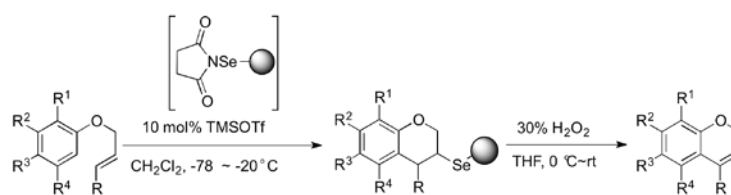
Suven Das\* and Arpita Dutta



Benzodiazonine    Ninhydrin Adduct    1,3-Propanediamine    Base-Catalyzed Reaction

**708 A Novel Solid-Phase Synthesis of 2H-Chromenes**

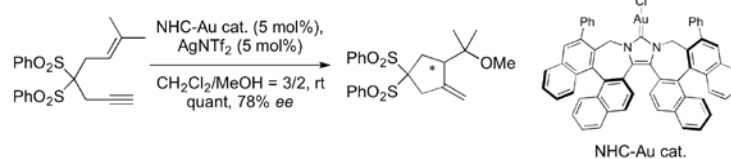
E Tang,\* Yinjiao Zhao, Meng Zhang, Xin Dai, Weilin Wang, and Deshou Mao\*



Solid-Phase Synthesis    2H-Chromene    Organoselenium Derivative    Lewis Acid    Intramolecular Cyclization Reaction

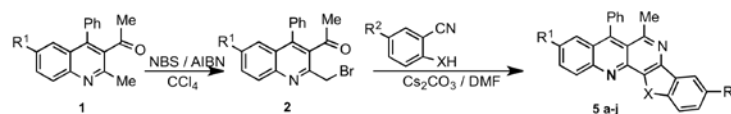
**720 Synthesis of A New Chiral C<sub>2</sub>-Symmetric Nhc-AuCl Complex**

Naoya Okitsu, Takuya Yoshida, Kensuke Usui, and Masahisa Nakada\*


 Chiral Ligand    N-Heterocyclic Carbene    C<sub>2</sub>-Symmetric Ligand    AuCl Complex    Ene-Yne Cyclization

**733 A Facile One-Pot Synthesis of Benzo[b]benzofuro- and Benzo[b]benzothieno[3,2-h][1,6]naphthyridines**

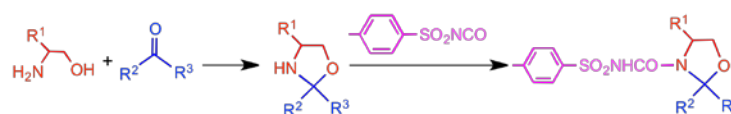
Dao-Lin Wang,\* Ting Zhou, Jin-Juan Xing, Jian-Hua Qiang, and Lin Liu



Benzo[b][1,6]naphthyridine    3-Acetyl-2-bromomethylquinoline    Salicylonitrile    2-Mercaptobenzonitrile    Thorpe-Ziegler Isomerization

**740 Design, Synthesis And Biological Activity Of Novel Sulfonylurea Oxazolidines**

Ying Fu, Jing-Xin Kang, Yun-Kai Wang, Jing Liu, Li-Xia Zhao, Shuang Gao, and Fei Ye\*



N-[(p-methylphenyl)sulfonyl]-1,3-oxazolidine-3-carboxamide    Active Substructure Combination    Synthesis    Single Crystal    Activity

■ TOTAL SYNTHESIS OF HETEROCYCLIC NATURAL PRODUCTS

---

- 751 Polyketides
  - 756 Aromatics
  - 759 Terpenes
  - 761 Alkaloids
  - 770 Miscellaneous
- 

■ BRUSH UP YOUR HETEROCYCLES

---

- 773 Brush Up Your Heterocycles
-

## Contributors To This Issue

- 649, 688 Abdallah, Magda A.  
 649 Abdelaziz, Mohamad R.  
 637 Abdelhamid, Ismail A.  
 637 Abdelmoniem, Amr M.  
 637 Abdelmoniem, Doaa M.  
 664 Akaba, Yosuke  
 631 Aoyama, Osamu  
 708 Dai, Xin  
 701 Das, Suven  
 701 Dutta, Arpita  
 688 Elaasser, Mahmoud M.  
 649 Eldin Serag, Nany S.  
 740 Fu, Ying  
 740 Gao, Shuang  
 637 Ghozlan, S. A. Soliman  
 649, 688 Gomha, Sobhi M.  
 664 Honma, Shoji  
 680 Inami, Keiko  
 631 Itoh, Takashi  
 631 Kanemitsu, Takuya  
 740 Kang, Jing-Xin  
 664 Kawai, Yu  
 664 Konakahara, Takeo  
 740 Liu, Jing  
 733 Liu, Lin  
 631 Machida, Ayano  
 637 Mady, Mohamed F.  
 708 Mao, Deshou  
 631 Miyazaki, Michiko  
 680 Mochizuki, Masataka  
 688 Mourad, Mahmoud A.  
 631 Nagata, Kazuhiro  
 720 Nakada, Masahisa  
 680 Nomura, Shogo  
 631 Odanaka, Yuki  
 720 Okitsu, Naoya  
 733 Qiang, Jian-Hua  
 607 Saito, Akio  
 664 Sakai, Norio  
 631 Sano, Daisuke  
 664 Sato, Naoya  
 708 Tang, E  
 607 Tateishi, Keiichiro  
 720 Usui, Kensuke  
 733 Wang, Dao-Lin  
 708 Wang, Weilin  
 740 Wang, Yun-Kai  
 733 Xing, Jin-Juan  
 740 Ye, Fei  
 720 Yoshida, Takuya  
 708 Zhang, Meng  
 740 Zhao, Li-Xia  
 708 Zhao, Yinjiao  
 733 Zhou, Ting