

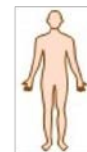
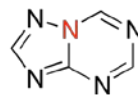
■ REVIEW

 175 **Advances in the Synthesis of 1,2,4-Triazolo[1,5-a][1,3,5]-triazines (5-Azapurines) and Their Biological Activity**

Koon Kee Kow and Anton V. Dolzhenko*



Synthesis



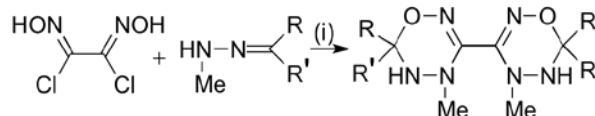
Therapeutic Potential

Triazole Triazine Purine Isostere Azapurine Adenosine Receptor Antagonist

■ PAPERS

 205 **Bis-Heterocycles. Part II. Tetrahydro-3,3'-bi(1,2,4,5-oxatriazines)**

Mustafa M. El-Abadelah, Firas F. Awwadi, Monther S. Zreid, and Mohammed M. Abadleh*


 (i) $\text{NEt}_3 + \text{CHCl}_3 / -10 \text{ to } 0 \text{ } ^\circ\text{C}$.

 (R = R': Me, Et, *i*Pr; R + R': cyclohexyl, *p*-thiopyranyl)

 Dichloroglyoxime *N*-Methylhydrazone 3,3-Bi(oxatriazine) X-Ray Structure

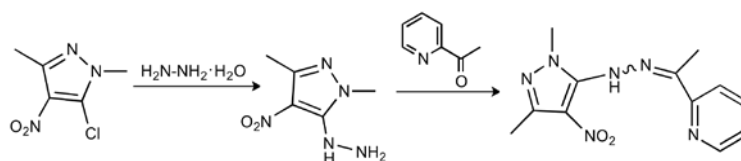
 215 **Efficient Synthesis of Chiral 5-Methoxycarbonylpyridin-2-(1*H*)-ones and 3-Bromo-5-methoxycarbonylpyridin-2(1*H*)-ones**

Hugo Pilotzi, Dino Gnecco,* María L. Orea,* David M. Aparicio, Sylvain Bernes, Jorge R. Juárez, and Joel L. Terán


 Pyridin-2(1*H*)-one Chiral 5-Methoxycarbonylpyridin-2(1*H*)-one Chiral 3-Bromo-5-methoxycarbonylpyridin-2(1*H*)-one

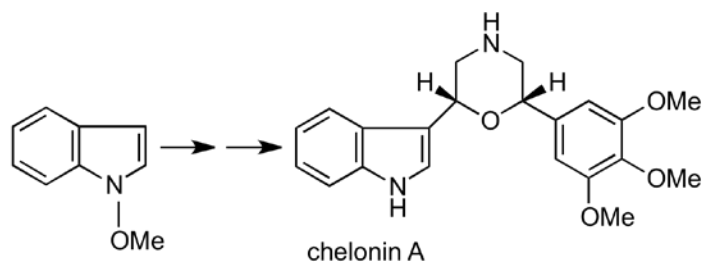
 224 **Synthesis, Crystal Structure, Spectroscopic and Computational Studies of 2-{1-[2-(1,3-Dimethyl-4-nitro-1*H*-pyrazol-5-yl)hydrazono]ethyl}pyridine**

Ahmad S. Abushamleh,* Kayed A. Abu-Safieh,* Monther A. Khanfar, Khaleel I. Assaf, Bader A. Salameh, and Nisreen J. Alwahsh


 Hydrazone Crystal Structure *E/Z*-Isomers DFT Calculation Pyrazole

236 Synthesis of 1-Methoxyindoles and Related Analogs of Pimprinine, (±)-Chelonin A and B, Based on 1-Hydroxyindole Chemistry

Kazuko Aoki, Yoshiyuki Nagahama, Katsuko Sugaya, Yuki Maeda, Haruhiko Sato, Kyoko Nakagawa (Goto), and Masanori Somei*

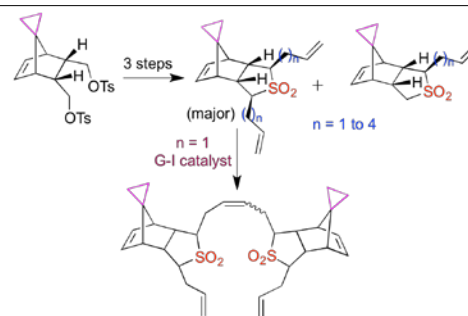


Chelonin A Chelonin B Pimprinine 1-Methoxyindole Indole

■ SHORT PAPERS

271 Synthesis of Alkenyl Sulfones Containing Norbornene Moiety

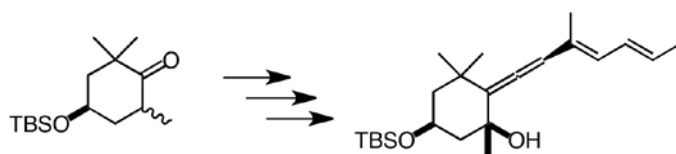
Sambasivarao Kotha* and Rama Gunta



Sulfone Norbornene Allylation Cyclopropane

281 Synthetic Study of an Intermediate towards Paracentrone

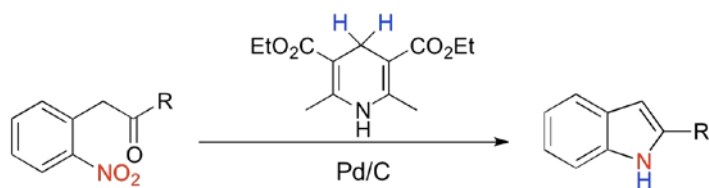
Taiki Kaneyama, Kazumi Fujimaru, Mami Takemura, Kizuku Hasegawa, Masahiro Hamada, Takao Kishimoto, Daisuke Urabe, and Noriyuki Nakajima*



Fucoxanthin Metabolite C31-Methyl Ketone Apocarotenoid Inhibition of Adipocyte Differentiation Sonogashira Reaction

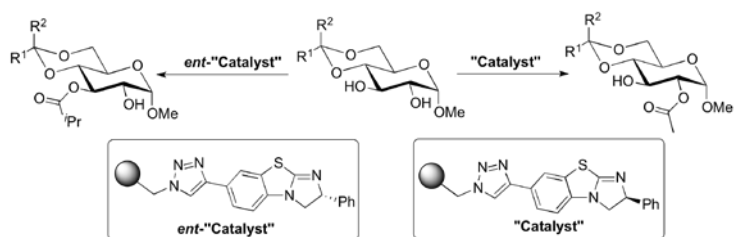
295 Synthesis of 2-Substituted Indole with Hantzsch Ester Catalyzed by Palladium

Yanan Li,* Bo Wang, and Ruiguang Xing*



Hantzsch Ester Indole Pd/C

- 304 Site-Selective Acylation of Carbohydrates Directed by Recyclable Polymer-Supported Isothiourea Catalysts**
 Wang-Ze Song,* Kun Dong, Ming Li, Jun-Hao Li, Karim Ullah, and Yu-Bin Zheng*



Site-Selectivity Isothiourea Catalyst Polystyrene-Supported Catalyst Carbohydrate Acylation

■ TOTAL SYNTHESIS OF HETEROCYCLIC NATURAL PRODUCTS

- 313 Polyketides
 315 Aromatics
 318 Terpenes
 321 Alkaloids
 331 Miscellaneous

■ BRUSH UP YOUR HETEROCYCLES

- 333 Brush Up Your Heterocycles

Contributors To This Issue

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