

Graphical Abstracts

Heterocycl. Commun. 6 (2000) 385-390

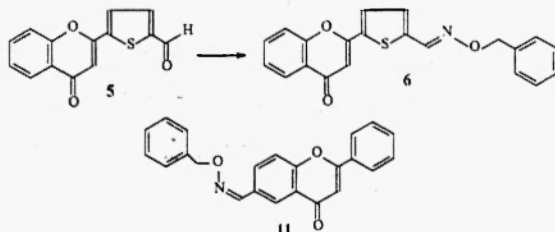
SYNTHESIS OF NEW 2-ARYL-4H-4-OXO-1-BENZOPYRAN OXIME ETHERS

Hakan Göker^{a,b}, Sibel Süzen^b, Canan Kuş^b and David W. Boykin¹

^aDepartment of Chemistry, Georgia State University, Atlanta, GA 30303, USA

^bDepartment of Pharmaceutical Chemistry, University of Ankara, Faculty of Pharmacy, Ankara, Turkey

Synthesis of 2-(5-formyl-2-thienyl)-4H-1-benzopyran-4-one (**5**), its oxime **6** and a series of five 2-(phenyl or thienyl) 4H-1-benzopyran-4-one aldoxime ethers (e.g. **11**) are reported.

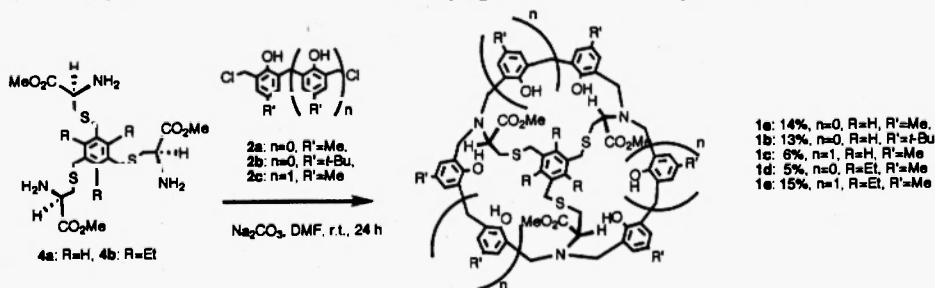


Heterocycl. Commun. 6 (2000) 391-396

SYNTHESIS OF BOWL-SHAPED CHIRAL HOMOTRIAZACALIXARENES: CHIRAL TRANSMISSION FROM THE POINT CHIRALITY OF THE BRIDGE TO THE CYCLOPHANE MOIETY

Kazuaki Ito,* Tomokazu Sato, and Yoshihiro Ohba, Department of Chemistry and Chemical Engineering, Faculty of Engineering, Yamagata University, Yonezawa 992-8510, Japan

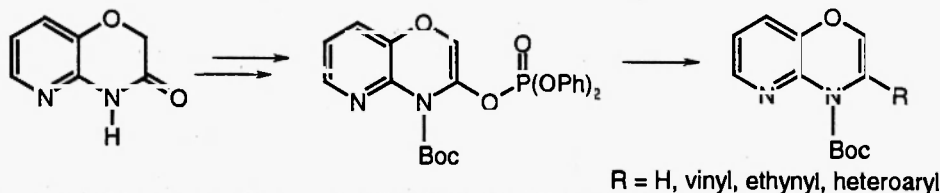
Bowl-shaped chiral homotriazacalixarenes were synthesized from the cyclization reactions of chiral triamines with bis(chloromethyl)phenols and bis(chloromethyl)phenol-formaldehyde dimer in moderate yields.



Heterocycl. Commun. 6 (2000) 397-402

Synthesis of 4H-pyrido[3,2-b][1,4]oxazine and 3-Substituted-4H-pyrido[3,2-b][1,4]oxazines via Palladium-Catalysed Reactions

F. Lepifre, C. Buon, P. Bouyssou, G. Coudert* Institut de Chimie Organique et Analytique associé au CNRS, Université d'Orléans, BP 6759 45067 Orléans Cedex 02, France



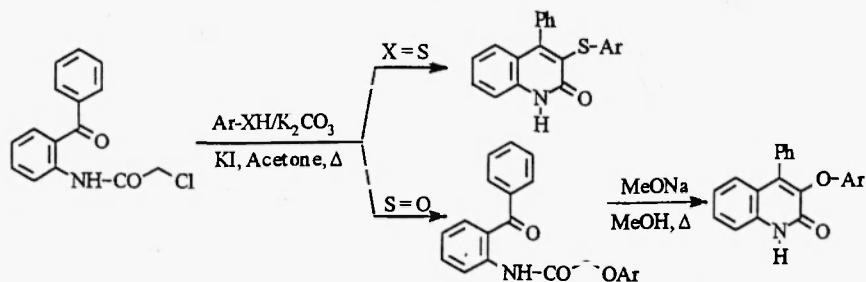
FACILE SYNTHESIS OF 3-(THIOPHENOXY/PHENOXY)-4-PHENYL-1,2-DIHYDRO-2-QUINOLINONES

Heterocycl. Commun. 6 (2000) 403-407

J.S. Yadav, E.J. Reddy, G. Madhavi and T. Ramalingam*

Indian Institute of Chemical Technology, Hyderabad-500 007, India.

3-(Thiophenoxy/phenoxy)-4-phenyl-1,2-dihydro-2-quinolinones are synthesized in high yields for the first time by the cyclocondensation of N-(2-chloroacetyl)benzophenone with thiophenol/phenol under basic conditions.

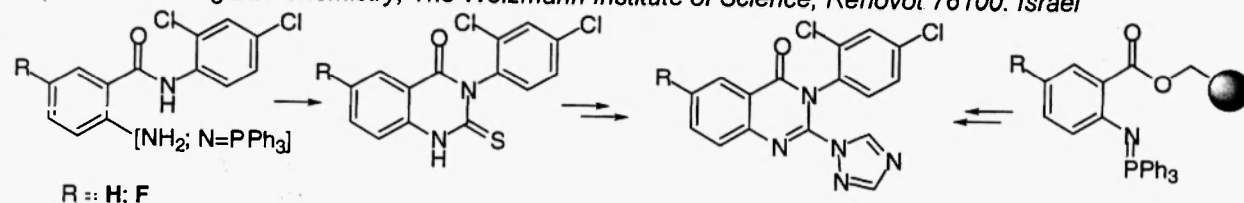


Heterocycl. Commun. 6 (2000) 409-414

Solution and solid-phase approaches to quinconazole and fluquinconazole – inhibitors of fungal ergosterol biosynthesis

Yaroslav V. Bilokin*, Sergiy M. Kovalenko

Department of Organic Chemistry, The Weizmann Institute of Science, Rehovot 76100, Israel



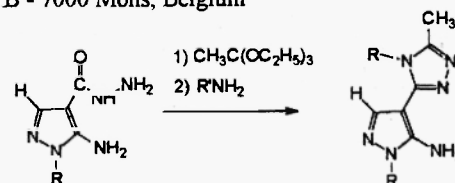
Heterocycl. Commun. 6 (2000) 415-420

A SIMPLE ROUTE TO NOVEL 3-(5-AMINO-1H-PYRAZOL-4-YL)-5-METHYL-4H-1,2,4-TRIAZOLES

Jean Jacques Vanden Eynde, * Laurent Estievenart, and Yves Van Haverbeke

University of Mons-Hainaut, Organic Chemistry Department, 20 place du Parc, B - 7000 Mons, Belgium

A synthetic route to the title compounds is described and an analysis of the ¹H NMR spectra enables to conclude that the conformations of the final products are dependent on the N(4) substituent of the triazole ring.



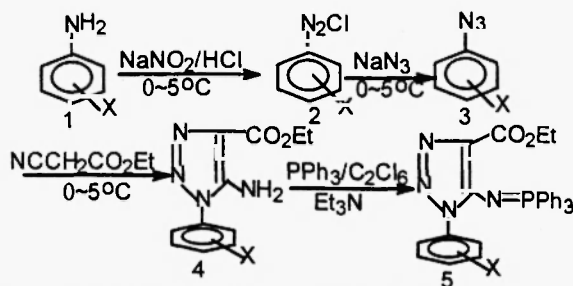
Synthesis and Antibacterial Activity of some Heterocyclic β -Enamino Esters with 1,2,3-triazole

Mingdong Chen, Shijie Lu*, Guangpu Yuan, Shiyang Yang and Xiaoli Du

State Key Laboratory for Oxo Synthesis and Selective Oxidation, Lanzhou Institution of Chemical Physics.

Chinese Academy of Sciences, Lanzhou, 730000 China

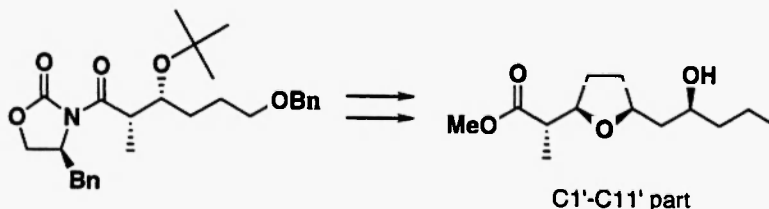
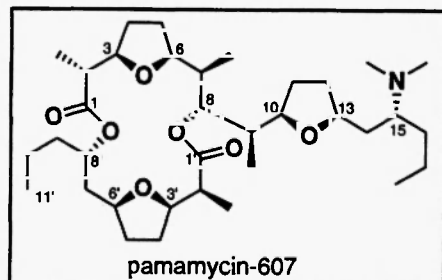
Abstract: Some new heterocyclic β -enamino ester derivatives with v-triazole were prepared, and their inhibiting effects on various bacteria were also investigated.

**SYNTHESIS OF THE SOUTHERN PART OF PAMAMYCIN-607, AN AERIAL MYCELIUM-INDUCING SUBSTANCE OF STREPTOMYCES ALBONIGER**

Yukito Furuya, Hiromasa Kiyota,* and Takayuki Oritani

Graduate School of Agricultural Science, Tohoku University
1-1 Tsutsumidori-Amamiya, Aoba-ku, Sendai 981-8555 Japan

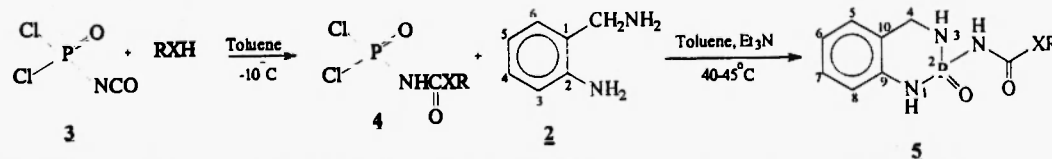
Synthesis of the southern (C1'-C11') part of pamamycin-607, an aerial mycelium-inducing substance of *Sytreptomyces alboniger*, was achieved via Evans aldol reaction and *cis*-selective iodoetherification as the key steps.

**SYNTHESIS AND CHARACTERIZATION OF 2-ALKYLCARBAMATO-1,2,3,4-TETRAHYDRO-1,3,2-BENZODIAZAPHOSPHORINE 2-OXIDES**

L. Nagaprasada Rao, C. Devendranath Reddy* and C. Naga Raju

Department of Chemistry, Sri Venkateswara University, Tirupati - 517 502, India

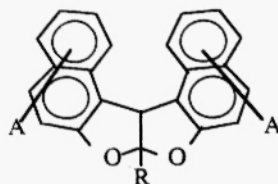
Novel 2-alkylcarbamato-1,2,3,4-tetrahydro-1,3,2-benzodiazaphosphorine 2-oxides (**5a-h**) have been synthesized from reaction of equimolar quantities of 2-aminobenzylamine **2** with various dichlorophosphinyl carbamates **4** in dry toluene in the presence of triethylamine at 40-45°C.



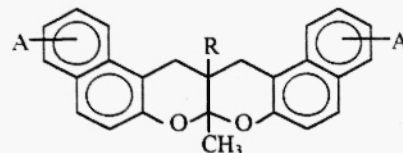
Synthesis of Dinaphthofuranofuran and Dinaphthopyranopyran Derivatives

Zafer Odabaş, Marmara University,
Atatürk Faculty of Education, Department of Chemistry,
Göztepe 81040, Istanbul, Turkey

Naciye Talınlı, İstanbul Technical University,
Faculty of Sciences, Department of Chemistry,
Maslak 80626, Istanbul, Turkey



A = H, OH, COC₆H₅, Br,
O(CH₂)N(C₂H₅)₂,
NHCO(CH₂)N(C₂H₅)₂
R = H, CH₃

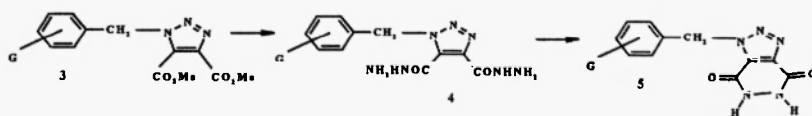


A = H, OH, COC₆H₅,
Br

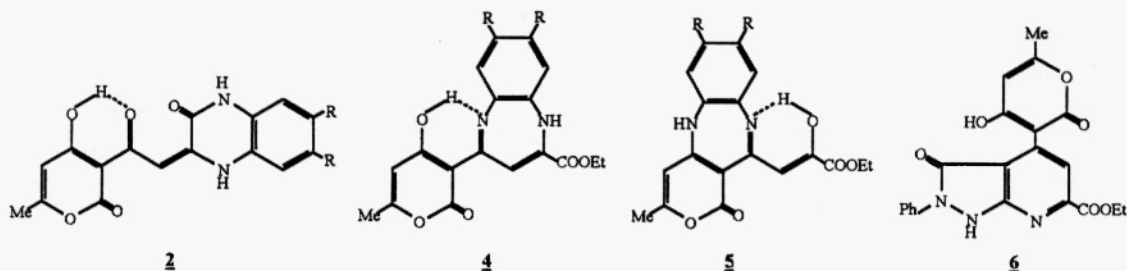
SYNTHESIS OF SUBSTITUTED BENZYL-1H-1,2,3- TRIAZOLO[4,5-d] PYRIDAZIDINE- 4,7-DIONES

S. T. Abu-Orabi*, R. Al-Hamdany, S. Shahateet and K. Abu-Shandi
Department of Chemistry, Yarmouk University, Irbid, Jordan

The synthesis of substituted benzyl-1H-1,2,3- triazolo[4,5-d] pyridazine-4,7-diones **5** is described

**SYNTHESIS OF SOME 2H-PYRONE AND FERROCENE CONTAINING HETEROCYCLIC SYSTEMS**

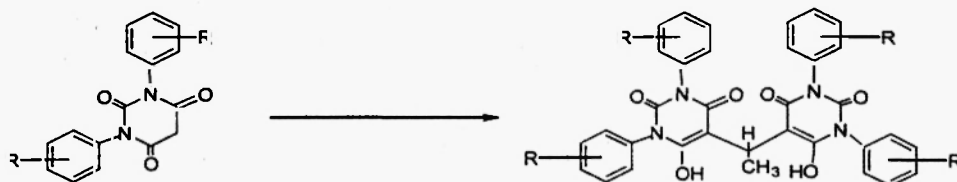
Samila Malzogu, Ivana Sušnik*, Jasna Vorkapić-Furač, Vladimir Rapić and Veronika Kovač
Faculty of Food Technology and Biotechnology, Zagreb, Croatia



Heterocyclic systems **2**, **4**, **5** and **6** were obtained by the action of appropriate reagents on ethyl 2-hydroxy-4-(4-hydroxy-6-methyl-2-oxo-2H-pyran-3-yl)-4-oxobut-2-enoate (**1**). The ferrocene analogues of **2** and **4** were also prepared.

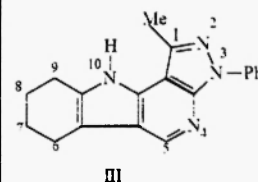
SYNTHESIS OF DIMERIC BARBITURATES

R.Nandha kumar, S.Thamarai Selvi and P.S.Mohan, Department of Chemistry, Bharathiar University
Coimbatore – 641 046 , INDIA

A NEW TETRACYCLIC SYSTEM-3*H*,10*H*-PYRAZOLO[4',3': 5,6]PYRIDO[4,3-*b*]INDOLE

Alice M. Rolim Bernardino, Misbahul Ain Khan and Adriana de Oliveira Gomes
Universidade Federal Fluminense, Instituto de Química, Departamento de Química
Orgânica, Outeiro de S. João Batista, s/n°, Centro, Niterói, CEP 24020-150, Rio
de Janeiro, Brazil.

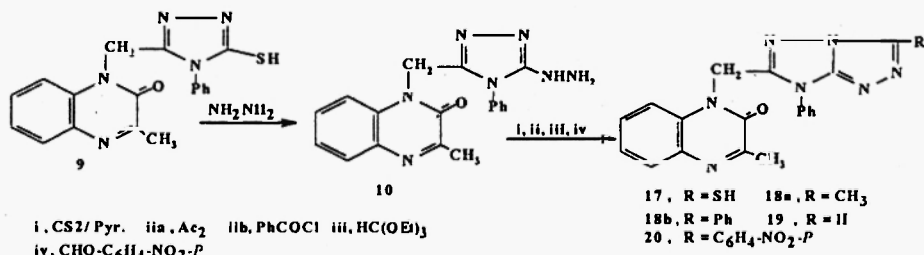
A 6,7,8,9-tetrahydro derivative of a new heteroaromatic tetracyclic ring system –
pyrazolo[4',3': 5,6]pyrido[4,3-*b*]indole has been obtained from a Fisher-
indolization of 4-cyclohexanonehydrazone-1*H*-pyrazolo[4,3-*b*]pyridine in
excellent yield.

SYNTHESIS AND REACTIONS OF SOME NEW 1,2,4-TRIAZOLYL
QUINOXALINE DERIVATIVES

O.S.Moustafa

Chemistry Department, Faculty of Science, Assiut University, Assiut 71516, Egypt

Reaction of 2-mercapto s-triazoloquinoxaline derivative 9 with hydrazine hydrate afford 2-hydrazino derivative 10
which was used as a key intermediate to produce more heterocyclic systems 17-20.



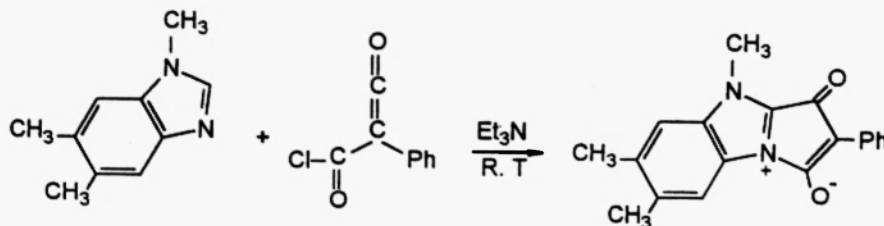
Synthesis of a Pseudo-Cross-Conjugated Heterocyclic Mesomeric Betaine (PCCMB)

(1)Jalil Lari, (2)Davood Aghaei Afshar, (2)Hassan Sheibani and (2)Kazem Saidi*

(1) Department of Chemistry Payam-e Noor University, Mashhad. Iran.

(2) Department of Chemistry Shahid Bahonar University of Kerman, Kerman 76175. Iran.;

Treatment of N, 5,6-trimethyl benzimidazole with (chlorocarbonyl)phenyl ketene (I) afforded anhydro-1- hydroxy
-3-oxo-2-phenyl-5,6,8-trimethylpyrrolo[2,1-b]benzimidazolium hydroxide



SYNTHESIS OF 6-(1,2-DIHYDRO-1-OXO-PHTHALAZIN-4-YL)-2H-1,4-BENZOXAZIN-3-(4H)-ONES.

K.S.Chowdary, A.Prashant, S.Srinivas Rao, & V.S.H.Krishnan*

Dr.Krishnan's Laboratories, Plot.No:99, Prashant Nagar, Kukatpally, Hyderabad-500 072, INDIA.

Abstract: A series of new 6-(1,2-dihydro-1-oxo-phthalazin-4-yl)-2H-1,4-benzoxazin-3-(4H)ones were prepared by Friedel-Crafts reaction of 2H-1,4-benzoxazin-3-(4H)-ones with phthalic anhydride & cyclizing the o-substituted ketobenzoicacid with hydrazine hydrate to yield the title compound.

