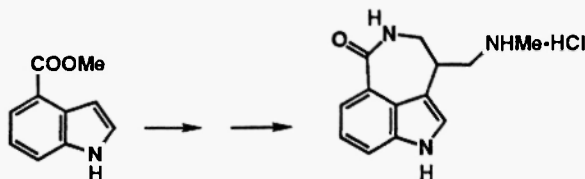


Graphical Abstracts

Heterocycl. Commun. 6 (2000) 9-12

**A NOVEL SYNTHESIS OF
3-[(METHYLAMINO)METHYL]
6-OXO-3,4,5,6-TETRAHYDRO-1H-AZEPINO[5,4,3-cd]INDOLE**
Lucjan Strękowski, Yuri Gulevich, and Koen Van Aken
Department of Chemistry, Georgia State University, Atlanta, Georgia 30303, USA

The title compound is
a potent CNS agent

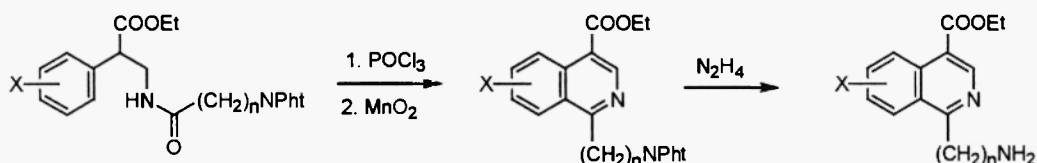


Heterocycl. Commun. 6 (2000) 13-20

ISOQUINOLINE-BASED AMINO ACID DERIVATIVES

Gary M. Coppola*, Y. Larry Zhang and Herbert F. Schuster
Department of Metabolic and Cardiovascular Diseases, Novartis Pharmaceuticals
556 Morris Ave., Summit, N.J. 07901

A series of 1-aminoalkylisoquinoline-4-carboxylates (**9**) was synthesized by acylation of an appropriate phenethylamine derivative with a phthaloyl-protected amino acid followed by a Bischler-Napieralski cyclization and oxidation. N-Alkyl analogs **16** were prepared by reaction of the 1-chloromethylisoquinoline **12** with an alkylamine.

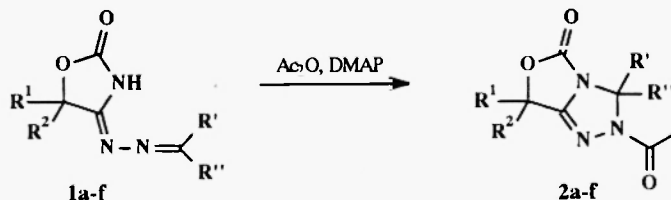


Heterocycl. Commun. 6 (2000) 21-24

SYNTHESIS OF OXAZOLO[4,3-C]1,2,4-TRIAZOL-5-ONES

Detlef Geffken*, Carsten Holst and Imke Willrodt
Institute of Pharmacy, Pharmaceutical Chemistry Department, University of Hamburg;
Bundesstrasse 45, 20146 Hamburg, Germany; e-mail: geffken@chemie.uni-hamburg.de

Treatment of 4-hydrazono-2-oxazolidinones (**1**) with acetic anhydride afforded 2-acetyl-oxazolo[4,3-c]-1,2,4-triazol-5-ones (**2**)

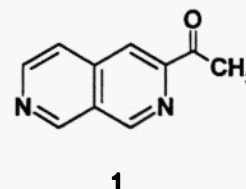


VALERIAN ALKALOIDS: FIRST TOTAL SYNTHESIS OF A NAPHTHYRIDYL METHYL KETONE

Eugen Barbu,^[a] J. Jens Wolff,^[b] Ion Bolocan^[a] and Flavian Cuiban^[a]

^[a] Organic Chemistry Department, University of Ploiești, Bd. București 39, Ploiești 2000, Romania

^[b] Organisch-Chemisches Institut der Universität Heidelberg, Im Neuenheimer Feld 270, Heidelberg 69120, Germany



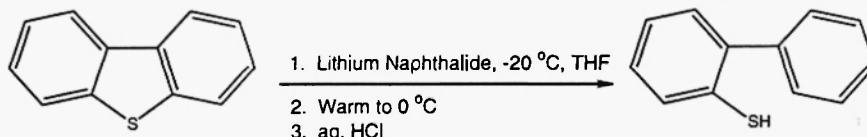
The first total synthesis of the naphthyridyl methyl ketone **1**, an alkaloid isolated from *Valeriana officinalis* and thought to be responsible for its physiological activity, is reported.

LARGE SCALE REDUCTIVE CLEAVAGE OF DIBENZOTHIOPHENE

John C. DiCesare* and Bryan M. White

Department of Chemistry and Biochemistry, The University of Tulsa, Tulsa, Oklahoma, 74104

A modified procedure for the large scale reductive cleavage of dibenzothiophene to prepare 2-phenylthiophenol without the formation of the over reduction products, hydrogen sulfide and biphenyl, has been developed.

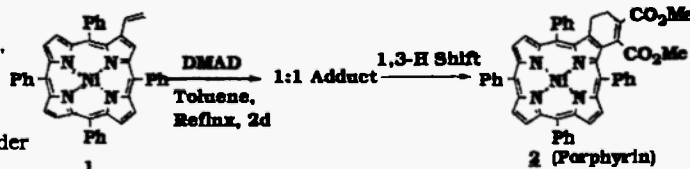


DIELS-ALDER REACTION OF Ni(II) β-VINYL-meso-TETRAPHENYLPORPHYRIN WITH DIMETHYL ACETYLENEDICARBOXYLATE AND N-PHENYL MALEIMIDE

Kiyoshi Matsumoto* and Shinya Kimura

Graduate School of Human and Environmental Studies,
Kyoto University, Kyoto 606-8501, Japan

Contrary to the previous results, Ni(II) β-vinyl-meso-tetraphenylporphyrin underwent Diels-Alder reaction with the title dienophiles to give the corresponding porphyrins via 1,3-hydrogen shift of the initial adducts in good to moderate yields.

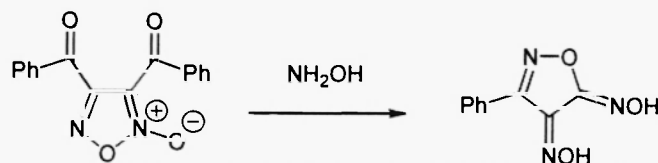


On the Interaction of 3,4-Dibenzoylfuroxan with Hydroxylamine

I. V. Tselinsky, S. F. Melnikova, S. V. Pirogov, and S. D. Shaposhnikov, St.-Petersburg State Institute of Technology (technical university), Russia

Christian Näther, University of Kiel, Institute of Inorganic Chemistry, Otto-Hahn-Platz 6/7, D-24098 Kiel, Germany

Tim Traulsen and Willy Friedrichsen, University of Kiel, Institute of Organic Chemistry, Otto-Hahn-Platz 4, D-24098 Kiel, Germany



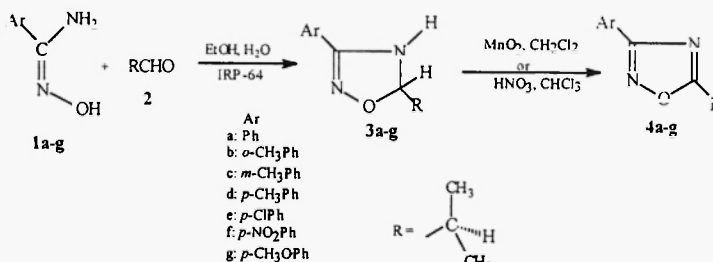
Synthesis and Antiinflammatory Activity of 3-Aryl-5-Isopropyl-1,2,4-Oxadiazoles

R.M. Srivastava^{a*}, Lécia P. F. de Moraes^a, Maria T. J. A. Catanho^b, Grace M. L. de Souza^b, G.M. Seabra^a, Alfredo M. Simas^a, Marcos A. L. Rodrigues^a

^a Departamento de Química Fundamental, Universidade Federal de Pernambuco, Cidade Universitária, 50.740-540, Recife, PE, Brazil

^b Departamento de Biofísica, Universidade Federal de Pernambuco, Cidade Universitária, 50.670-420, Recife, PE, Brazil

Seven 4,5-dihydro-1,2,4-oxadiazoles **3a-g** have been synthesized. These compounds were oxidized to 1,2,4-oxadiazoles **4a-g**, which showed antiinflammatory activity.



SYNTHESIS AND MICROBIOLOGICAL ACTIVITY OF SOME 2H-BENZOTHAZIN-3-ONE DERIVATIVES

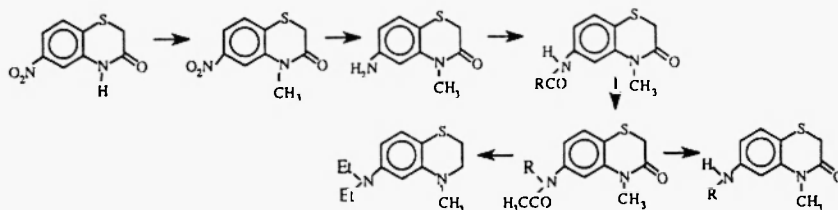
V. L. de M. Guarda^{1,3}, M. Perrissin¹, F. Thomasson¹, E. A. Ximenes², S. L. Galdino², I. R. Pitta² and C. Luu-Duc¹

¹ Laboratoire de Chimie Pharmacie, CNRS UPRES-A 5077 Université Joseph-Fourier, Grenoble I, F 38706 La Tronche Cedex

² Departamento de Antibióticos Universidade Federal de Pernambuco, 50.670-901 Recife/PE (Brasil)

³ Faculdade de Farmácia Universidade Federal de Ouro Preto, 35.400-000 Ouro Preto/MG (Brasil)

Synthesis, physical and analytical properties of some new 6-amino-4-methyl-2H-1,4-benzothiazin-3-one derivatives are described. Some of them were evaluated *in vitro* for bacteriostatic activity.

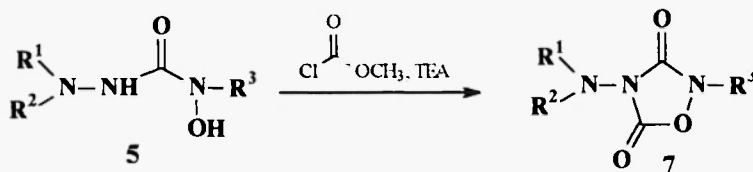


4-AMINOSUBSTITUTED 1,2,4-OXADIAZOLIDIN-3,5-DIONES

Detlef Geffken* and Sandra Zilz

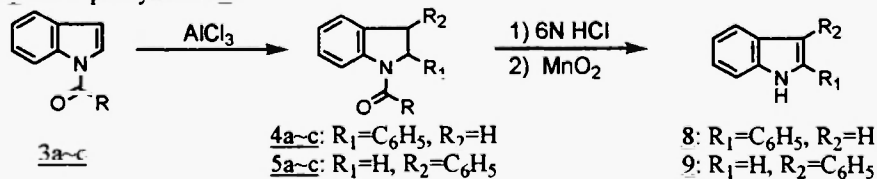
Institute of Pharmacy, Pharmaceutical Chemistry Department, University of Hamburg;
Bundesstrasse 45, 20146 Hamburg, Germany

The cyclic carbonylation of 1,1-disubstituted 4-hydroxysemicarbazides (5) with methyl chloroformate produces 4-amino-1,2,4-oxadiazolidin-3,5-diones (7).

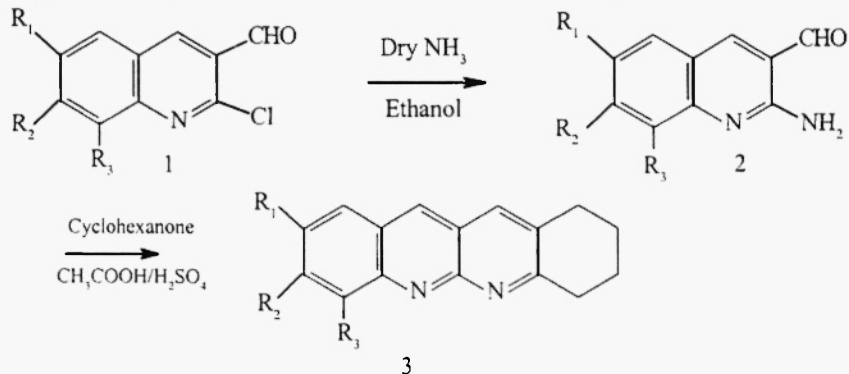
**REACTIVITY OF INDOLE AS AN ELECTROPHILE AND ITS APPLICATION FOR THE SYNTHESIS OF 2-PHENYLINDOLE AND 3-PHENYLINDOLE**

Nobumitsu Tajima and Shin-ichi Nakatsuka*

United Graduate School of Agricultural Science, Gifu University, 1-1 Yanagido, Gifu 501-1193, Japan

Reactivity of *N*-acylindole 3a-c as an electrophile was studied and phenyl group was introduced at the 2 and 3-position of indole nucleus to afford phenylindoline derivatives 4a-c and 5a-c, which were derived to 2-phenylindole 8 and 3-phenylindole 9.**SYNTHESIS OF 1,2,3,4-TETRAHYDRODIBENZO[b,g][1,8]NAPHTHYRIDINES.**

G. Arul Prakash & S.P. Rajendran*, Department of Chemistry, Bharathiar University, Coimbatore -641 046, India.

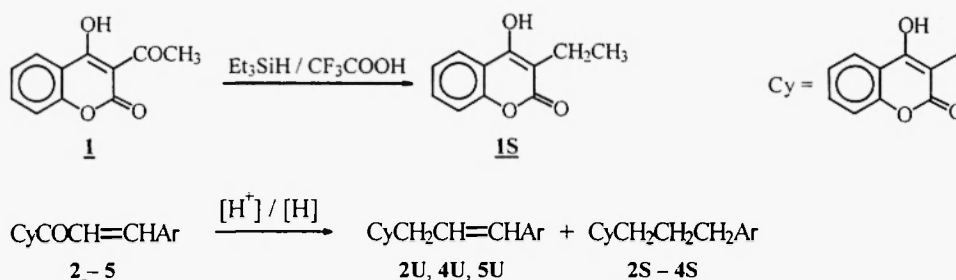


IONIC HYDROGENATION OF 4-HYDROXYCOUMARIN DERIVATIVES

Mirjana Eckert-Maksić¹*, Vladimir Rapic², Damir Margetić¹, and Vesna Matonićkin¹

¹Laboratory of Physical-Organic Chemistry, Ruder Boskovic Institute, and ²Faculty of Food Technology and Biotechnology, Zagreb, Croatia

Ionic hydrogenation of 3-acetyl-4-hydroxycoumarin **1** and 3-aryl-1-(4-hydroxy-3-coumarinyl)-2-propen-1-ones (**2**, Ar=Ph, **3**, Ar=*p*-MeOC₆H₄, **4**, Ar=*p*-ClC₆H₄, **5**, Ar=*p*-NO₂C₆H₄) in CF₃COOH/ HSiEt₃ gave 3-ethyl-4-hydroxycoumarin **1S**, and the corresponding unsaturated (**U**) and saturated products (**S**).

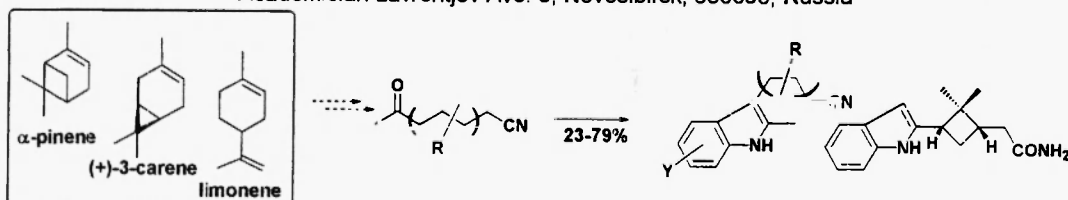


TERPENIC METHYL KETONES DERIVED FROM LIMONENE, (+)-3-CARENE, AND α -PINENE IN FISCHER'S INDOLE SYNTHESIS.

Olga N. Burchak, Andrey M. Chibiryaev, Alexey V. Tkachev*

Novosibirsk State University.

Novosibirsk Institute of Organic Chemistry, Siberian Branch of Russian Academy of Sciences
Academician Lavrentjev Ave. 9, Novosibirsk, 630090, Russia

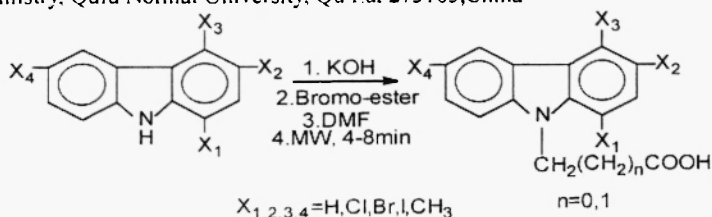


Microwave-assisted preparation of substituted carbazole-9-acetic/propionic acid and their absorption and fluorescence spectroscopic characteristics

Lao Wenjian^a Sun Xuejun^b You Jinmao^a Ou Qingyu^a

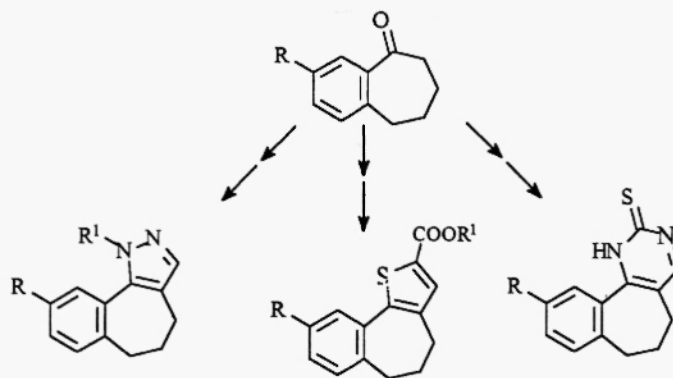
^a Lanzhou Institute of Chemical Physics, Chinese Academy of sciences, Lan Zhou, 730000, China

^b Department of Chemistry, Qufu Normal University, Qu Fu, 273165, China



STUDIES ON VILSMEIER-HAACK REACTION : FORMATION OF SOME HETEROCYCLIC ANNELATED COMPOUNDS FROM 6,7,8,9-TETRAHYDROBENZOCYCLOHEPTEN-5-ONES

V. Peesapati* and K. Anuradha, Industrial Chemistry, Centre for Environment, JNT University, Hyderabad - 500028, India



A One-Pot Synthesis of 1,3-Dioxazine-4-One Derivatives

Kazem Saidi*, Hamidreza Shaterian, Davood Aghaei

Department of Chemistry, Shahid Bahonar University of Kerman, Kerman 76175, Iran.

(Chlorocarbonyl)phenyl ketene (1) reacts with dicyclohexylcarbodiimide, N-benzilideneaniline and phenylisocyanate to give the corresponding (II), (III) and (IV) respectively.

