

## Graphical abstracts

### Synthesis of dihydrooxazole analogues derived from linezolid

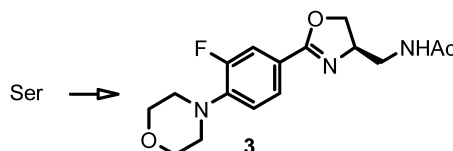
*Tetrahedron* 59 (2003) 3403

Jürgen Einsiedel,<sup>a</sup> Christoph Schoerner<sup>b</sup> and Peter Gmeiner<sup>a,\*</sup>

<sup>a</sup>Department of Medicinal Chemistry, Emil Fischer Center, Friedrich Alexander University, Schuhstraße 19, D-91052 Erlangen, Germany

<sup>b</sup>Institute of Clinical Microbiology, Immunology and Hygiene, Friedrich Alexander University, Wasserturmstraße 3, D-91054 Erlangen, Germany

Starting from (S)serine, the dihydrooxazole analogue **3** was synthesized and pharmacologically investigated. With the help of MEP comparisons structural requirements for antibacterial activity were evaluated.

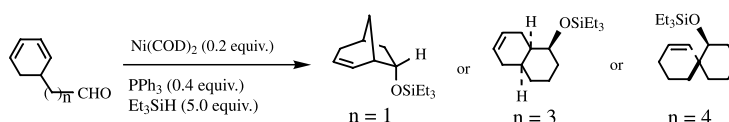


### Construction of fused, bridged, and spiro bicyclic skeletons via nickel-catalyzed intramolecular cyclization of cyclic 1,3-dienes and a tethered aldehyde

*Tetrahedron* 59 (2003) 3409

Ming-Chang P. Yeh,<sup>\*</sup> Jong-Hao Liang, Yi-Lin Jiang and Ming-Shan Tsai

Department of Chemistry, National Taiwan Normal University, 88 Ding-Jou Road, Sec. 4, Taipei 117, Taiwan, ROC

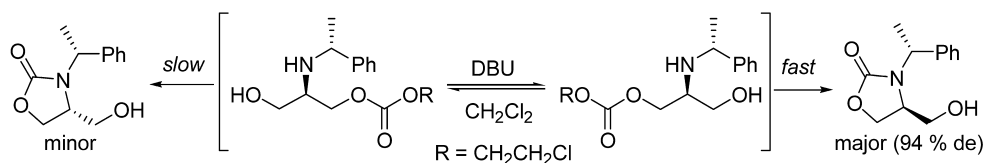


### A novel dynamic kinetic resolution accompanied by intramolecular transesterification: asymmetric synthesis of a 4-hydroxymethyl-2-oxazolidinone from serinol derivatives

*Tetrahedron* 59 (2003) 3417

Shigeo Sugiyama, Shoko Watanabe, Takayuki Inoue, Rie Kurihara, Takahiro Itou and Keitaro Ishii<sup>\*</sup>

Meiji Pharmaceutical University, 2-522-1, Noshio, Kiyose, Tokyo 204-8588, Japan



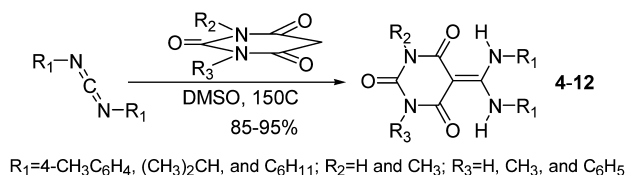
### Preparation of 5-diaminomethylenebarbiturates by barbituric acid addition to carbodiimides

*Tetrahedron* 59 (2003) 3427

Branko S. Jursic,<sup>\*</sup> Fred Douelle and Edwin D. Stevens

Department of Chemistry, University of New Orleans, Lakefront, New Orleans, LA 70148, USA

Through the NMR spectroscopic monitoring for barbituric acid addition to carbodiimides, a very efficient synthetic procedure for the preparation of 5-diaminomethylenebarbiturates was developed.



## Cribrarione A, a new antimicrobial naphthoquinone pigment from a myxomycete *Cribraria purpurea*

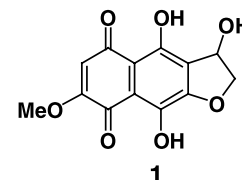
*Tetrahedron* 59 (2003) 3433

Ayano Naoe,<sup>a</sup> Masami Ishibashi<sup>a,\*</sup> and Yukinori Yamamoto<sup>b</sup>

<sup>a</sup>Graduate School of Pharmaceutical Sciences, Chiba University, 1-33 Yayoi-cho, Inage-ku, Chiba 263-8522, Japan

<sup>b</sup>Kochi Kita Highschool, 160 Higashiishidate, Kochi 780-8039, Japan

Cribrarione A (**1**), a new dihydrofuranonaphthoquinone pigment with antimicrobial activity against *Bacillus subtilis* has been isolated from a myxomycete *Cribraria purpurea* and its structure was elucidated by spectral data.



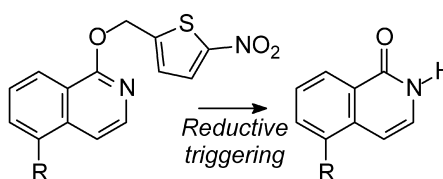
## Studies on the reductively triggered release of heterocyclic and steroid drugs from 5-nitrothien-2-ylmethyl prodrugs

*Tetrahedron* 59 (2003) 3437

Sandra Ferrer,<sup>a</sup> Declan P. Naughton<sup>b</sup> and Michael D. Threadgill<sup>b,\*</sup>

<sup>a</sup>Department of Medical Sciences, University of Bath, Claverton Down, Bath BA2 7AY, UK

<sup>b</sup>Department of Pharmacy and Pharmacology, University of Bath, Claverton Down, Bath BA2 7AY, UK



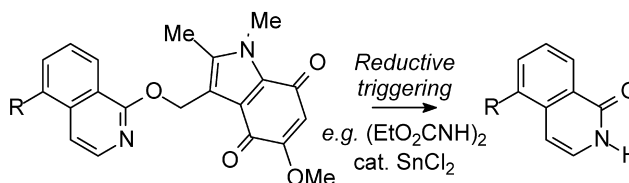
## <sup>1</sup>H NMR studies on the reductively triggered release of heterocyclic and steroid drugs from 4,7-dioxindole-3-methyl prodrugs

*Tetrahedron* 59 (2003) 3445

Sandra Ferrer,<sup>a</sup> Declan P. Naughton<sup>b</sup> and Michael D. Threadgill<sup>b,\*</sup>

<sup>a</sup>Department of Medical Sciences, University of Bath, Claverton Down, Bath BA2 7AY, UK

<sup>b</sup>Department of Pharmacy and Pharmacology, University of Bath, Claverton Down, Bath BA2 7AY, UK

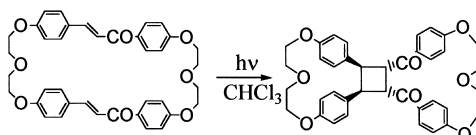


## Synthesis of a ditopic cyclophane based on the cyclobutane ring by chalcone photocycloaddition

*Tetrahedron* 59 (2003) 3455

Francesca R. Cibirin, Giancarlo Doddi\* and Paolo Mencarelli\*

Dipartimento di Chimica ed ICCOM-Sez di Roma, Università di Roma 'La Sapienza', P.le Aldo Moro 5, 00185 Roma, Italy



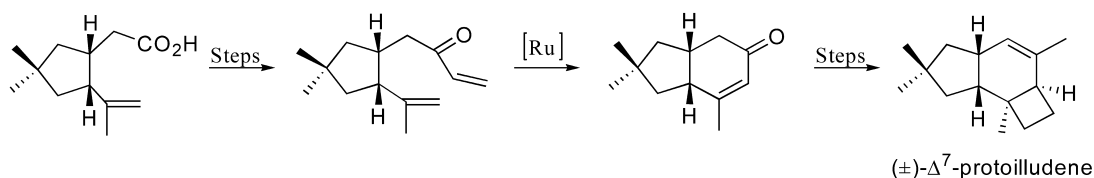
## Synthetic efforts towards the protoilludenes. A formal synthesis of $\Delta^7$ -protoilludene

Tetrahedron 59 (2003) 3461

Trond Vidar Hansen,<sup>a</sup> Lars Skattebøl<sup>b</sup> and Yngve Stenstrøm<sup>a,\*</sup>

<sup>a</sup>Department of Chemistry and Biotechnology, Agricultural University of Norway, P.O. Box 5040, N-1432 Ås, Norway

<sup>b</sup>Department of Chemistry, University of Oslo, P.O. Box 1033, Blindern, N-0315 Oslo, Norway



## A palladium complex with a new hemilabile amino- and sulfur-containing phosphinite ligand as an efficient catalyst for the Heck reaction of aryl bromides with styrene. The effect of the amino group

Tetrahedron 59 (2003) 3467

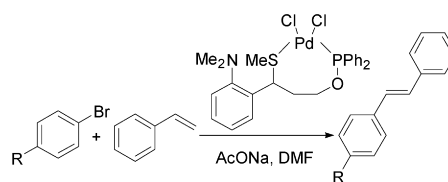
Ioannis D. Kostas,<sup>a,\*</sup> Barry R. Steele,<sup>a,\*</sup> Aris Terzis<sup>b</sup> and Svetlana V. Amosova<sup>c</sup>

<sup>a</sup>National Hellenic Research Foundation, Institute of Organic and Pharmaceutical Chemistry, Vas. Constantimou 48, 116 35 Athens, Greece

<sup>b</sup>Institute of Materials Science, NCSR Democritos, 153 10 Aghia Paraskevi Attikis, Greece

<sup>c</sup>Favorsky Irkutsk Institute of Chemistry, Siberian Branch of Russian Academy of Sciences, 1 Favorsky Street, 664033 Irkutsk, Russian Federation

A palladium complex with a new hemilabile *N,S*-phosphinite ligand efficiently catalyses the Heck reaction of aryl bromides with styrene with TONs up to 100000.

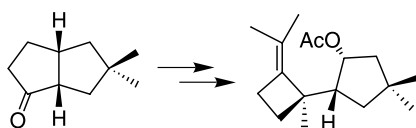


## Synthetic studies towards the novel fomannosane sesquiterpenoid illudosin: framework construction

Tetrahedron 59 (2003) 3475

Goverdhan Mehta\* and K. Sreenivas

Department of Organic Chemistry, Indian Institute of Science, Mallechwaram, Bangalore 560012, India

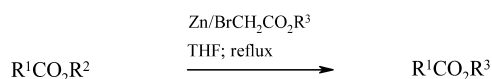


## Efficient and chemoselective alkyl bromoacetate–Zn mediated transesterification method

Tetrahedron 59 (2003) 3481

Necdet Coşkun\* and Mustafa Er

Department of Chemistry, Uludağ University, Gorukle, 16059 Bursa, Turkey

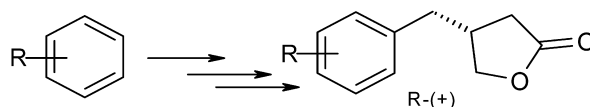


### New chemo and chemo-enzymatic synthesis of $\beta$ -benzyl- $\gamma$ -butyrolactones

*Tetrahedron 59 (2003) 3487*

S. Koul, B. Singh, S. C. Taneja\* and G. N. Qazi

*Bio-organic Chemistry Section, Regional Research Laboratory, Canal Road, Jammu Tawi 180001, India*

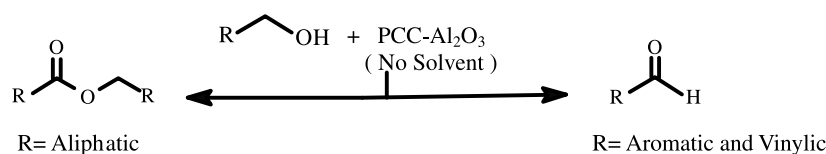


### Remarkable reactivity of pyridinium chlorochromate adsorbed on neutral alumina under solvent-free conditions

*Tetrahedron 59 (2003) 3493*

Sanjay Bhar\* and Subrata Kumar Chaudhuri

*Department of Chemistry, Organic Chemistry Section, Jadavpur University, Kolkata 700032, India*

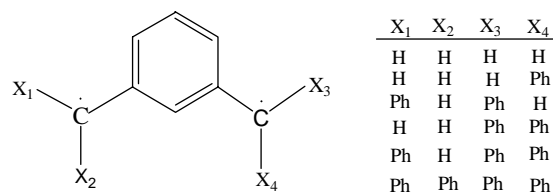


### Substituent effect of the spin-coupling constant through *m*-phenylene in *m*-xylylene and its derivatives

*Tetrahedron 59 (2003) 3499*

Ganbing Zhang, Shuhua Li\* and Yuansheng Jiang

*Department of Chemistry, Institute of Theoretical and Computational Chemistry, Lab. of Mesoscopic Materials Science, Nanjing University, Nanjing 210093, People's Republic of China*

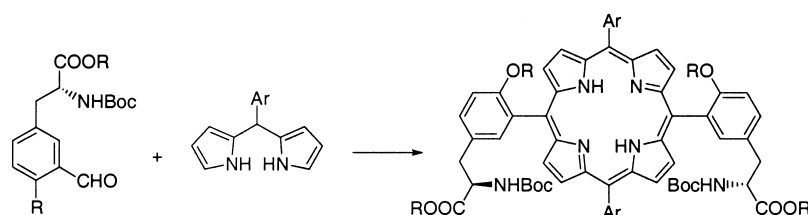


### A general approach to *L*-tyrosine porphyrins

*Tetrahedron 59 (2003) 3505*

Hong Chen, Xue-Bin Shao, Xi-Kui Jiang and Zhan-Ting Li\*

*Shanghai Institute of Organic Chemistry, Chinese Academy of Sciences, 354 Fenglin Lu, Shanghai 200032, People's Republic of China*

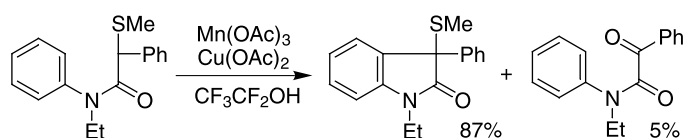


## Cyclization reactions of methylthioacetanilides

Yu-Jen Liao, Yi-Lung Wu and Che-Ping Chuang\*

Department of Chemistry, National Cheng Kung University, Tainan 70101, Taiwan, ROC

Tetrahedron 59 (2003) 3511



## Platinum-catalyzed highly selective thiocarbonylation of acetylenes with thiols and carbon monoxide

Jun-ichi Kawakami,<sup>a</sup> Masanori Mihara,<sup>b</sup> Ikuyo Kamiya,<sup>c</sup> Mitsuhiko Takeba,<sup>b</sup> Akiya Ogawa<sup>c,\*</sup> and Noboru Sonoda<sup>d</sup>

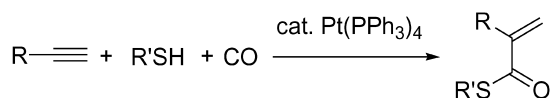
<sup>a</sup>Chemical Development Laboratories, Takeda Chemical Industries, Ltd., 2-17-85 Jusohommachi, Yodogawa-ku, Osaka 532-8686, Japan

<sup>b</sup>Department of Applied Chemistry, Faculty of Engineering, Osaka University, Suita, Osaka 565-0871, Japan

<sup>c</sup>Department of Chemistry, Faculty of Science, Nara Women's University, Kitauoyanishi-machi, Nara 630-8506, Japan

<sup>d</sup>Department of Applied Chemistry, Faculty of Engineering, Kansai University, Suita, Osaka 564-0073, Japan

Tetrahedron 59 (2003) 3521

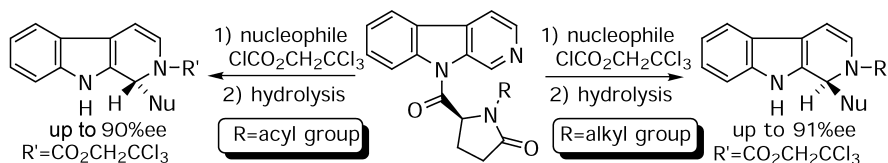


## A general method for the asymmetric synthesis of both enantiomers of 1-substituted 1,2,3,4-tetrahydro-β-carbolines employing pyroglutamic acid derivatives as chiral auxiliaries

Takashi Itoh, Michiko Miyazaki, Sachiko Ikeda, Kazuhiro Nagata, Masashi Yokoya, Yuji Matsuya, Yasuko Enomoto and Akio Ohsawa\*

School of Pharmaceutical Sciences, Showa University, 1-5-8 Hatanodai, Shinagawa-ku, Tokyo 142-8555, Japan

9-(S)-Pyroglutaminyl-β-carboline reacted with allyltributyltin or silyl enol ethers to give both enantiomeric products depending on N-protecting group of the chiral auxiliary.



Tetrahedron 59 (2003) 3527

## Host-guest complexation effect of 2,3,6-tri-O-methyl-β-cyclodextrin on a C<sub>60</sub>-porphyrin light-to-photocurrent conversion system

Atsushi Ikeda,<sup>a,b,\*</sup> Tsukasa Hatano,<sup>c</sup> Toshifumi Konishi,<sup>b</sup> Jun-ichi Kikuchi<sup>a</sup> and Seiji Shinkai<sup>c,\*</sup>

<sup>a</sup>Graduate School of Materials Science, Nara Institute of Science and Technology, Takayama, Ikoma, Nara 630-0101, Japan

<sup>b</sup>PRESTO, Japan Science and Technology Corporation (JST), Japan

<sup>c</sup>Department of Chemistry and Biochemistry, Graduate School of Engineering, Kyushu University, Hakozaki, Higashi-ku, Fukuoka 812-8581, Japan

Tetrahedron 59 (2003) 3537

