

## Graphical abstracts

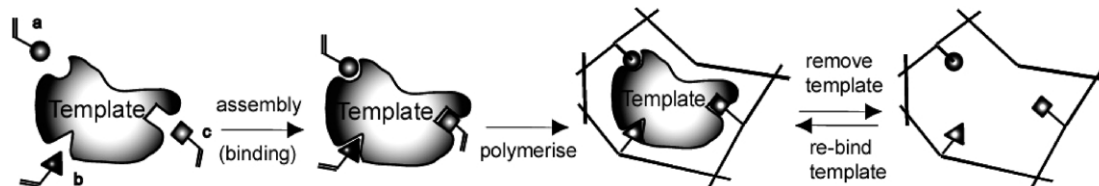
### Imprinted polymers: artificial molecular recognition materials with applications in synthesis and catalysis

Cameron Alexander,<sup>a,\*</sup> Louise Davidson<sup>b</sup> and Wayne Hayes<sup>b</sup>

<sup>a</sup>School of Pharmacy and Biomedical Sciences, University of Portsmouth, St Michael's Building, White Swan Road, Portsmouth PO1 2DT, UK

<sup>b</sup>School of Chemistry, University of Reading, Whiteknights, Reading RG6 6AD, UK

Schematic of molecular imprinting.

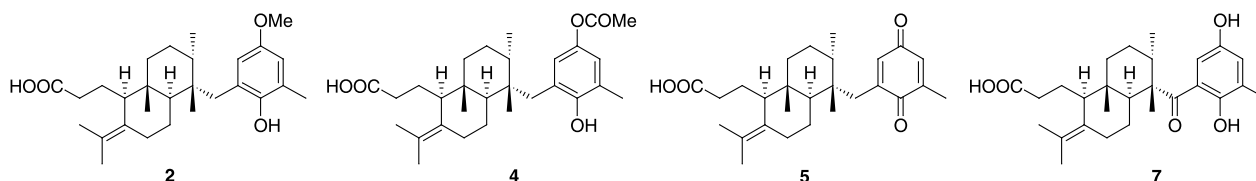


*Tetrahedron 59 (2003) 2025*

### On the relative stereochemistry of atomaric acid and related compounds

Enrique Dorta, Ana R. Díaz-Marrero, Mercedes Cueto\* and José Darias

Instituto de Productos Naturales y Agrobiología del CSIC, Avda. Astrofísico F. Sánchez, 3, Apdo. 195, 38206 La Laguna, Tenerife, Spain



*Tetrahedron 59 (2003) 2059*

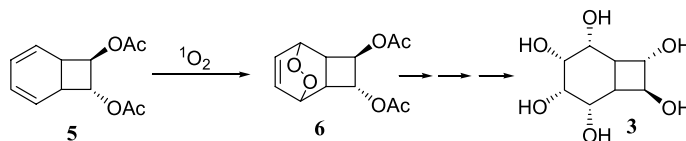
### A new and stereospecific synthesis of an inositol analogue: bis-homoinositol

Yunus Kara<sup>a</sup> and Metin Balci<sup>b,\*</sup>

<sup>a</sup>Department of Chemistry, Atatürk University, 25240 Erzurum, Turkey

<sup>b</sup>Department of Chemistry, Middle East Technical University, 06531 Ankara, Turkey

The photooxygenation of diacetate **5** afforded the bicyclic endoperoxide **6**. Reduction of the endoperoxide followed by  $\text{KMnO}_4$  oxidation gave dihydroxytetraacetate. Ammonolysis of tetraacetate afforded the bis-homoinositol **3**.



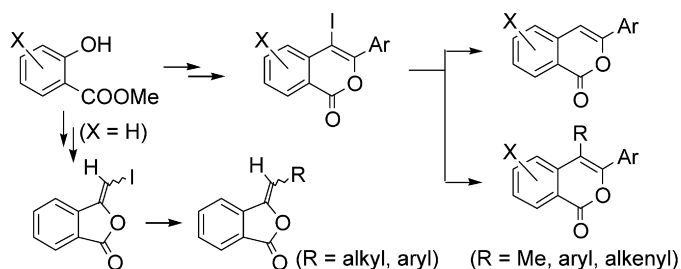
*Tetrahedron 59 (2003) 2063*

### Synthesis of 3-arylisocoumarins, including thunberginols A and B, unsymmetrical 3,4-disubstituted isocoumarins, and 3-ylidene-phthalides via iodolactonization of methyl 2-nylbenzoates or the corresponding carboxylic acids

Renzo Rossi,<sup>a,\*</sup> Adriano Carpita,<sup>a,\*</sup> Fabio Bellina,<sup>a</sup> Paolo Stabile<sup>a</sup> and Luisa Mannina<sup>b</sup>

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<sup>b</sup>Facoltà di Scienze M.F.N., Università del Molise, via Mazzini 8, 86170 Isernia, Italy



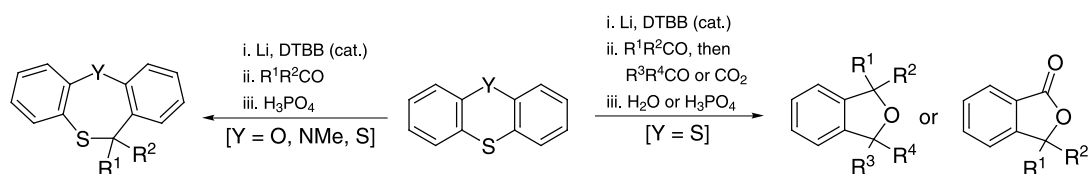
*Tetrahedron 59 (2003) 2067*

## Dibenzothiepins, phthalans and phthalides from 4-heterosubstituted dibenzothiins

*Tetrahedron 59 (2003) 2083*

Miguel Yus, Francisco Foubelo\* and José V. Ferrández

*Departamento de Química Orgánica, Facultad de Ciencias, Universidad de Alicante, Apdo. 99, E-03080 Alicante, Spain*

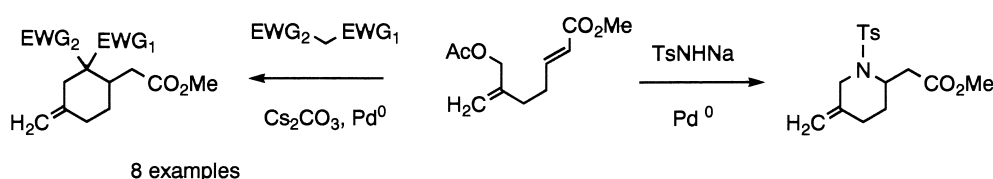


## The six-membered annulation reaction involving sequential palladium-catalyzed allylic alkylation and Michael addition: scope and limitations

*Tetrahedron 59 (2003) 2093*

Céline Jousse-Karinthi, Fatima Zouhiri, Jacqueline Mahuteau and Didier Desmaële\*

*Unité de Chimie Organique Associée au CNRS, Faculté de Pharmacie, Université Paris Paris XI, 5, rue Jean-Baptiste Clément, 92296 Châtenay-Malabry, France*

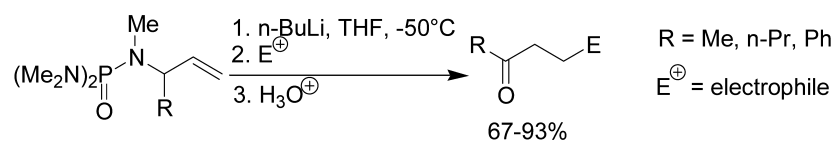


## New ketone homoenolate anion equivalents derived from (alkenyl)pentamethyl phosphoric triamides

*Tetrahedron 59 (2003) 2101*

Claude Grison,\* Antoine Thomas, Frédéric Coutrot and Philippe Coutrot\*

*Laboratoire de Chimie Organique Biomoléculaire, Institut Nancéien de Chimie Moléculaire, FR CNRS 1742, UMR 7565, Université Henri Poincaré, Nancy 1, BP 239, 54506 Vandoeuvre-les-Nancy cedex, France*



## The use of an electrophile carrier to determine the number of intermediates in the chlorination of 1-methylpyrrole

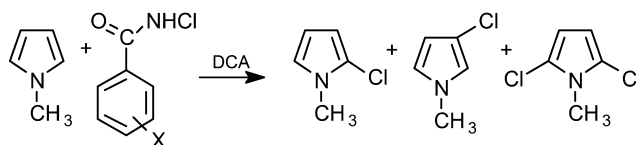
*Tetrahedron 59 (2003) 2125*

Michael De Rosa<sup>a,\*</sup> and Manuel Marquez<sup>b,c</sup>

<sup>a</sup>*Department of Chemistry, The Pennsylvania State University Delaware County, 25 Yearsley Mill Road, Media, PA 19063, USA*

<sup>b</sup>*Los Alamos National Laboratory, Chemical Science and Technology Division, Los Alamos, NM 87545, USA*

<sup>c</sup>*Kraft R&D, The Nanotechnology Laboratory, 801 Waukegan Rd., Glenview, IL 60025, USA*



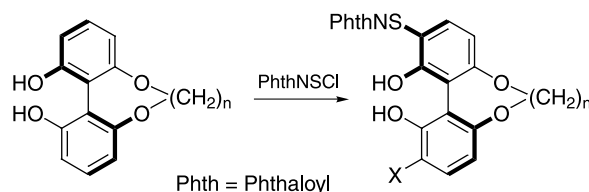
## Torsional angles in 6,6'-bridged atropisomeric biphenyls control the electrophilic substitution with phthalimidesulfonyl chloride

*Tetrahedron 59 (2003) 2131*

Giovanna Delogu,<sup>a</sup> Davide Fabbri,<sup>a</sup> Stefano Menichetti<sup>b,\*</sup> and Cristina Nativi<sup>b</sup>

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<sup>b</sup>Dipartimento di Chimica Organica 'Ugo Schiff', Polo Scientifico—Università di Firenze, via della Lastruccia 13, I-50019 Sesto Fiorentino (FI), Italy



n = 1, X = H;  
n = 2, X = H or SNPhth;  
n = 3, X = SNPhth

## Reagent concentration effects in the REM resin solid phase synthesis of tertiary amines

*Tetrahedron 59 (2003) 2137*

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Department of Medicinal Chemistry, Organon Laboratories Ltd., Newhouse, ML1 5SH, Scotland, UK

The use of reagent concentration has resulted in increased rates for all stages of the REM resin synthesis of tertiary amines. These increases in rate translate into faster reaction times, higher yields and lower reagent consumption and were observed with a variety of resin matrices. Of the methods examined, the most successful was the use of perfluorous solvents, either alone or with a small amount of organic co-solvent.

## New concept for the preparation of potassium sodides: the use of hexane as a non-polar solvent

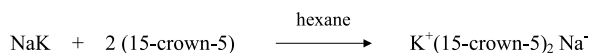
*Tetrahedron 59 (2003) 2147*

Zbigniew Grobelny,<sup>a</sup> Andrzej Stolarzewicz,<sup>a,b,\*</sup> Barbara Morejko-Buż<sup>a,b</sup> and Antoni Winiarski<sup>c</sup>

<sup>a</sup>Centre of Polymer Chemistry, Polish Academy of Sciences, 41-819 Zabrze, Poland

<sup>b</sup>Institute of Physics and Chemistry of Metals, University of Silesia, 40-007 Katowice, Poland

<sup>c</sup>Institute of Physics, University of Silesia, 40-007 Katowice, Poland

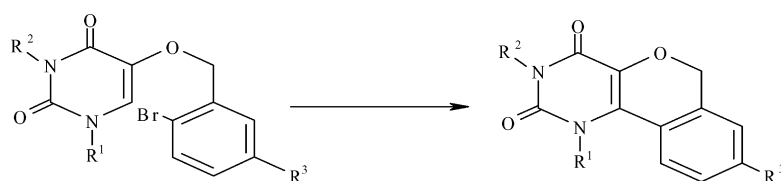


## Regioselective synthesis of 1H,3H,6H[2]benzopyrano[4,3-d]-pyrimidine-2,4-diones and 12H-benzopyrano[3,2-c]-[1]benzopyran-5-ones by radical cyclization

*Tetrahedron 59 (2003) 2151*

K. C. Majumdar,<sup>\*</sup> P. K. Basu, P. P. Mukhopadhyay, S. Sarkar, S. K. Ghosh and P. Biswas

Department of Chemistry, University of Kalyani, Kalyani 741 235, West Bengal, India

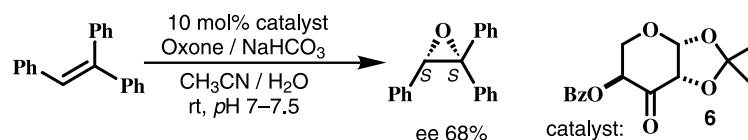


## Catalytic asymmetric epoxidation of alkenes with arabinose-derived uloses

Tetrahedron 59 (2003) 2159

Tony K. M. Shing,\* Yiu C. Leung and Kwan W. Yeung

Department of Chemistry, The Chinese University of Hong Kong, Shatin, Hong Kong, People's Republic of China

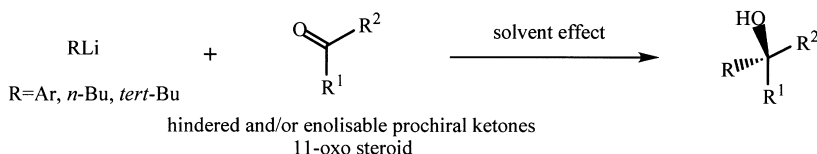


## Improved addition of organolithium reagents to hindered and/or enolisable ketones

Tetrahedron 59 (2003) 2169

Vincent Lecomte, Elie Stéphan,\* Franck Le Bideau and Gérard Jaouen

Laboratoire de chimie organométallique, Ecole Nationale Supérieure de Chimie et CNRS, 11 rue Pierre et Marie Curie, 75005 Paris, France



## Rapid access to acyclic nucleosides via conjugate addition

Tetrahedron 59 (2003) 2177

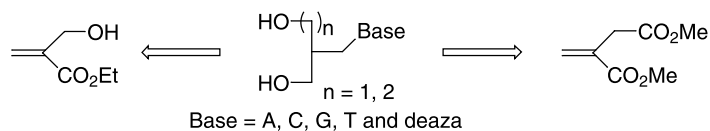
Stéphane Guillarme,<sup>a</sup> Stéphanie Legoupy,<sup>a</sup> Anne-Marie Aubertin,<sup>b</sup> Cécile Olicard,<sup>c</sup> Nathalie Bourgougnon<sup>c</sup> and François Huet<sup>a,\*</sup>

<sup>a</sup>Laboratoire de Synthèse Organique, UMR CNRS 6011, Faculté des Sciences et Techniques, Université du Maine, Avenue Olivier Messiaen, F-72085 Le Mans cedex 9, France

<sup>b</sup>Faculté de Médecine, Institut de Virologie, INSERM U 544, Université Louis Pasteur, 3 rue Koeberlé, F-67000 Strasbourg, France

<sup>c</sup>Laboratoire de Biologie et Chimie Moléculaires, Centre de recherche et d'enseignement Yves Coppens, Campus de Tohannic, BP 573, F-56017 Vannes, France

Michael addition proved to be efficient to introduce natural and deaza purine and pyrimidine bases.



## Microwave effects in solvent-free esters aminolysis

Tetrahedron 59 (2003) 2185

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<sup>a</sup>Laboratoire des Réactions Sélectives sur Supports, Université Paris-Sud-ICMMO-UMR 8615 Bâtiment 410-91405 Orsay cedex, France

<sup>b</sup>Laboratoire de Microstructure et Mécanique des Matériaux, UPRESA 8006, ENSAM, 151, bd de l'hôpital, 75013 Paris, France

Solvent-free aminolysis was studied under microwave or conventional heating either in the absence of base or induced by KO<sup>t</sup>Bu with or without phase transfer agent. The specific microwave effects were shown to be dependent on the conditions and discussed in terms of relative polarities of ground and transition states.

