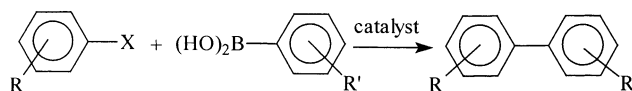


Recent applications of the Suzuki–Miyaura cross-coupling reaction in organic synthesis

Sambasivarao Kotha,^{a*} Kakali Lahiri and Dhurke Kashinath

Department of Chemistry, Indian Institute of Technology–Bombay, Powai, Mumbai 400 076, India

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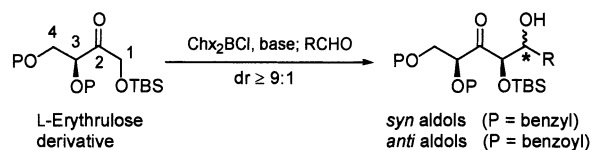
Influence of the protecting groups on the *syn/anti* stereoselectivity of boron aldol additions with erythrose derivatives. A theoretical and experimental study

Juan Murga,^a Eva Falomir,^a Florenci González,^a Miguel Carda^{a,*} and J. A. Marco^{b,*}

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Aldol additions of variously protected L-erythrose derivatives have been investigated. The *syn/anti* stereoselectivity has been found to depend on the nature of the protecting groups on the hydroxyl functions at C-3 and C-4. Mechanistic explanations of these results are advanced on the basis of theoretical and experimental data.



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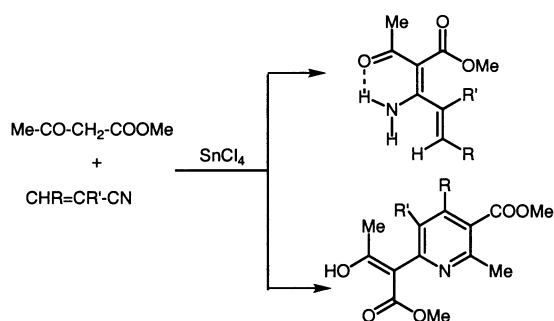
One pot synthesis of unsaturated enaminketoesters or of pyridines in the tin(IV) chloride-promoted reactions of β -ketoesters with α,β -unsaturated nitriles

Augusto C. Veronese,^{a,*} Carlo F. Morelli^b and Marino Basato^c

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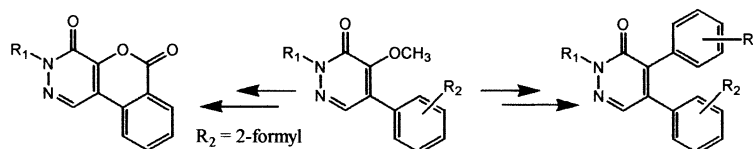
Synthesis of 4-aryl-5-hydroxy- and 5-aryl-4-hydroxypyridazin-3(2H)-ones and their use in the preparation of 4,5-diarylpyridazin-3(2H)-ones and hitherto unknown isochromeno[3,4-d]pyridazinediones

Bert U. W. Maes,^{a,*} Katrien Monsieurs,^a Kristof T. J. Loones,^a Guy L. F. Lemière,^a Roger Dommissie,^a Péter Mátyus,^b Zsuzsanna Riedl^c and György Hajós^c

^aDepartment of Chemistry, University of Antwerp (RUCA), Groenenborgerlaan 171, B-2020 Antwerpen, Belgium

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^cChemical Research Center, Institute of Chemistry, Hungarian Academy of Sciences, P.O. Box 17, H-1525 Budapest, Hungary



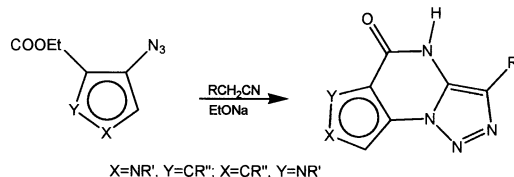
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New tricyclic systems of biological interest. Annulated 1,2,3-triazolo[1,5-a]pyrimidines through domino reaction of 3-azidopyrroles and methylene active nitriles

Tetrahedron 58 (2002) 9723

Antonino Lauria, Patrizia Diana, Paola Barraja, Alessandra Montalbano, Girolamo Cirrincione, Gaetano Dattolo and Anna Maria Almerico*

Dipartimento Farmacochimico, Tossicologico e Biologico, Università degli Studi, Via Archirafi 32, I-90123 Palermo, Italy

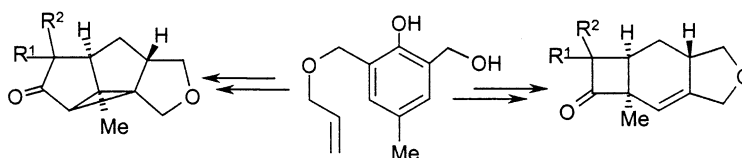


Synthesis and photoreactions of 3-oxa-tricyclo[5.2.2.0^{1,5}]-undecenones: a novel, stereoselective route to oxa-triquinanes and oxa-sterpuranes

Tetrahedron 58 (2002) 9729

Vishwakarma Singh,* S. Q. Alam and G. D. Praveena

Department of Chemistry, Indian Institute of Technology, Mumbai 400 076, India



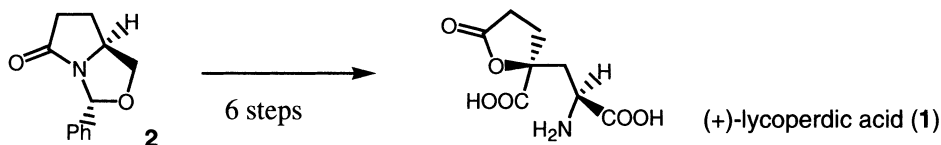
Stereoselective synthesis of (S)-(+)-lycoperdic acid through an *endo* selective hydroxylation of the chiral bicyclic lactam enolate with MoOPH

Tetrahedron 58 (2002) 9737

Kazuishi Makino,^a Kensuke Shintani,^a Takahiro Yamatake,^a Osamu Hara,^a Keiichiro Hatano^b and Yasumasa Hamada^{a,*}

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Preparation, conformational analysis, and biological evaluation of 6a-carbabrassinolide and related compounds

Tetrahedron 58 (2002) 9741

Hideharu Seto,^{a,b,*} Sayoko Hiranuma,^b Shozo Fujioka,^{a,b} Hiroyuki Koshino,^c Toshiro Suenaga^d and Shigeo Yoshida^{a,b}

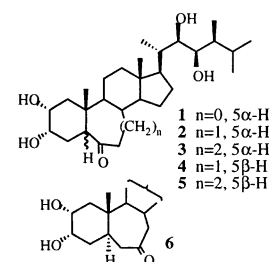
^aPlant Functions Laboratory, RIKEN (The Institute of Physical and Chemical Research), Wako-shi, Saitama 351-0198, Japan

^bPlant Science Center, RIKEN (The Institute of Physical and Chemical Research), Wako-shi, Saitama 351-0198, Japan

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^dSynthetic Organic Chemistry Laboratory, RIKEN (The Institute of Physical and Chemical Research), Wako-shi, Saitama 351-0198, Japan

B-ring modified brassinolides (**2–6**) were prepared from castasterone (**1**) via homologation with TMSCHN₂ and BF₃·Et₂O, and their brassinosteroid activities were evaluated by the rice lamina inclination and *Arabidopsis det2* hypocotyl elongation tests.



Synthesis and crystal structures of mono-potassium salts of calix[4]arene and *p*-*tert*-butylcalix[4]arene

Tracy A. Hanna,^{a,*} Lihua Liu,^a Lev N. Zakharov,^b Arnold L. Rheingold,^b William H. Watson^a and C. David Gutsche^a

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