



Tetrahedron Vol. 67, Issue 48, 2011

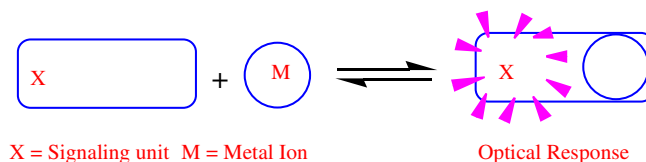
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REPORT

Colorimetric metal ion sensors

Navneet Kaur^{*}, Subodh Kumar^{*}

pp 9233–9264



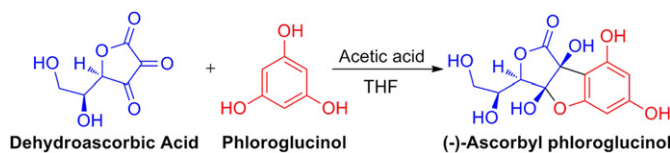
Colorimetric sensors allow on site, real time qualitative, and semi-quantitative detection without complicated analytical instruments. Various aspects, such as different color changes, metal induced absorptions shifts, are reviewed.

ARTICLES

A biomimetic synthesis of (–)-ascorbyl phloroglucinol and studies toward the construction of ascorbyl-modified catechin natural products and analogues

Sneha A. Belapure, Zachary G. Beamer, John E. Bartmess, Shawn R. Campagna^{*}

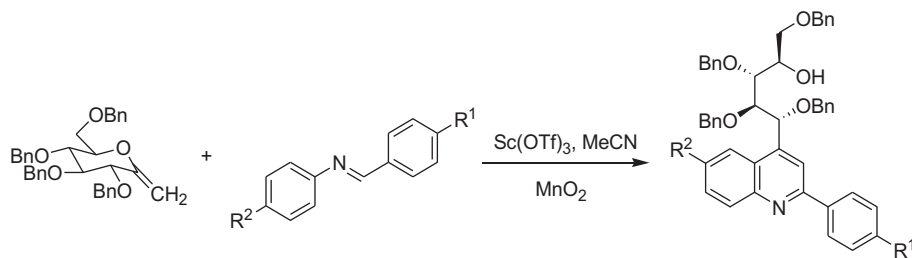
pp 9265–9272



Povarov reactions of *exo*-glycols: preparation of C-linked, quinoline analogues

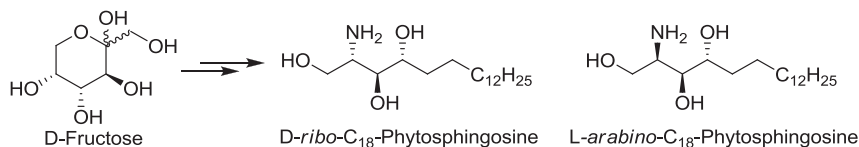
pp 9273–9282

Peter H. Dobbelaar, Cecilia H. Marzabadi*

**An efficient synthesis of *D*-ribo-*C*₁₈-phytosphingosine and *L*-arabino-*C*₁₈-phytosphingosine from *D*-fructose**

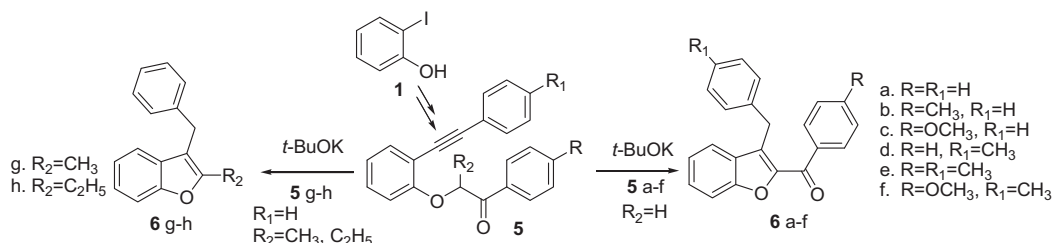
pp 9283–9290

Ramu Sridhar Perali*, Suresh Mandava, Sudharani Chalapala

***tert*-BuOK-mediated carbanion–yne intramolecular cyclization: synthesis of 2-substituted 3-benzylbenzofurans**

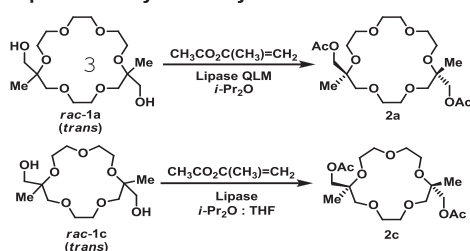
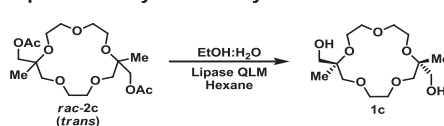
pp 9291–9297

Po-Yuan Chen, Tzu-Pin Wang, Keng-Shiang Huang, Chai-Lin Kao, Jui-Chi Tsai, Eng-Chi Wang*

**Synthesis of *C*₂-symmetric chiral crown ethers by lipase-catalyzed reactions**

pp 9298–9304

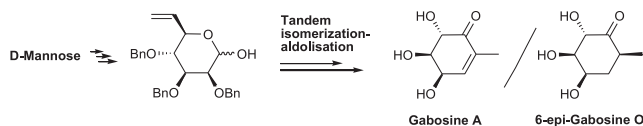
Misako Nakamura, Takuya Taniguchi, Naohisa Ishida, Keishi Hayashi, Masahiro Muraoka, Yohji Nakatsuji*

Lipase - Catalyzed Acetylation**Lipase - Catalyzed Solvolysis**

Total synthesis of gabosines via an iron-catalyzed intramolecular tandem aldol process

pp 9305–9310

Dinh Hung Mac, Ramesh Samineni, Abdul Sattar, Srivari Chandrasekhar, Jhillu Singh Yadav*, René Grée*

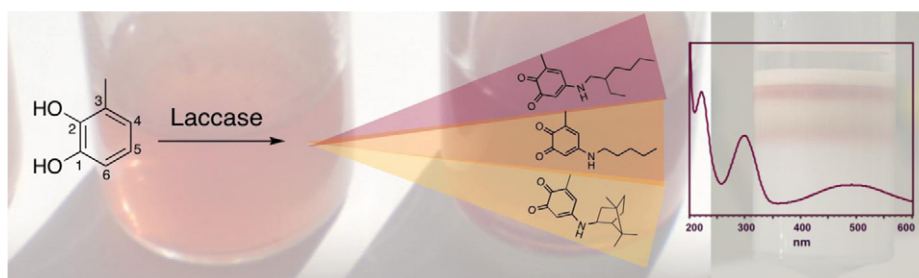


Similar reactions were performed from D-Galactose and D-Glucose.

C–N coupling of 3-methylcatechol with primary amines using native and recombinant laccases from *Trametes versicolor* and *Pycnoporus cinnabarinus*

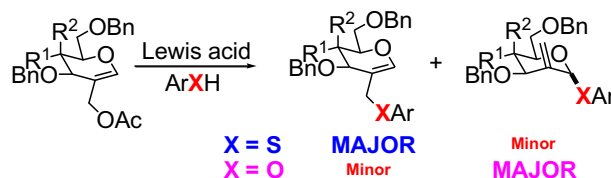
pp 9311–9321

Susanne Herter, Annett Mikolasch, Dirk Michalik, Elke Hammer, Frieder Schauer, Uwe Bornscheuer, Marlen Schmidt*

**HSAB-driven regioselectivity difference in the Lewis-acid catalyzed reactions of 2-C-substituted glycols with sulfur and oxygen nucleophiles: direct versus allylic substitution**

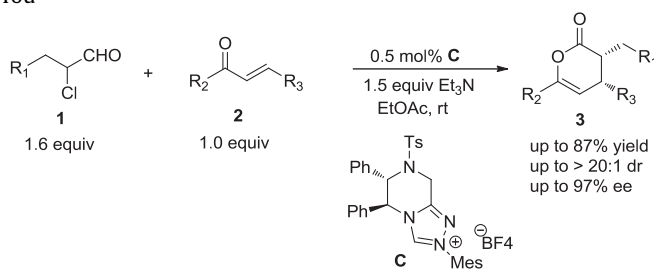
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Paramathevar Nagaraj, Namakkal G. Ramesh*

**(1R,2R)-DPEN-derived triazolium salts for enantioselective oxodiene Diels–Alder reactions**

pp 9329–9333

Zi-Qiang Rong, Min-Qiang Jia, Shu-Li You*



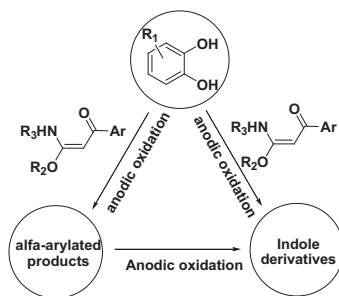
Enantioselective oxodiene Diels–Alder reactions catalyzed by (1R,2R)-DPEN-derived triazolium salts were realized successfully. With 0.5 mol % of (1R,2R)-DPEN-derived triazolium salt C and 150 mol % of Et₃N, the reactions of various α-chloroaldehydes (α-bromoaldehyde) with substituted enones led to *trans*-3,4-dihydropyridinones and their derivatives in good yields with up to 97% ee.



Electrochemical oxidation of catechols in the presence of ketene *N,O*-acetals: indole formation versus α -arylation

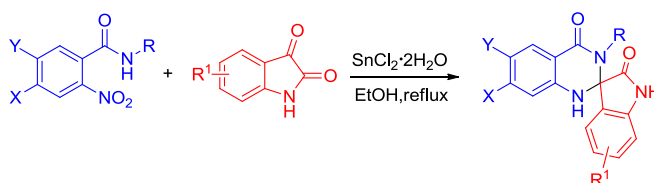
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Yue-Xia Bai, Da-Wei Ping, R. Daniel Little, Hong-Yu Tian, Li-Ming Hu, Cheng-Chu Zeng*

**Efficient and convenient synthesis of spiroindolinone-quinazolines induced by stannous chloride**

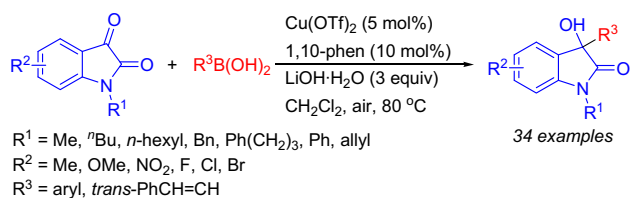
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Yu Hu, Man-Man Wang, Hui Chen, Da-Qing Shi*

**Copper-catalyzed arylation of indolin-2,3-ones with arylboronic acids**

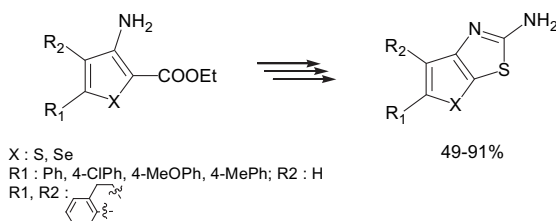
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Jilei Zhang, Jiuxi Chen*, Jinchang Ding, Miaochang Liu, Huayue Wu

**Synthesis of novel 2-aminothieno[3,2-*d*]thiazoles and selenolo[3,2-*d*]thiazoles**

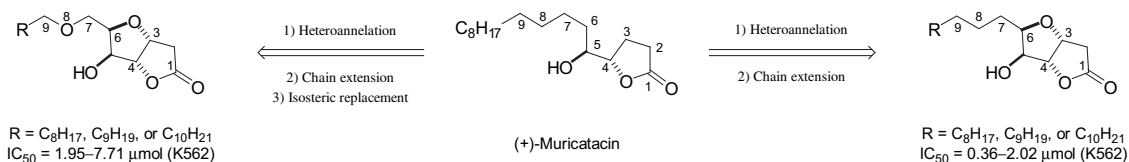
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Germain Revelant, Stéphanie Hesse*, Gilbert Kirsch

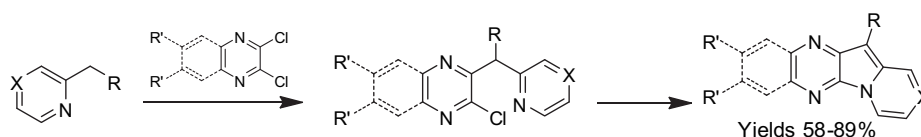


Heteroannulated (+)-muricatacin mimics: synthesis, antiproliferative properties and structure–activity relationships pp 9358–9367

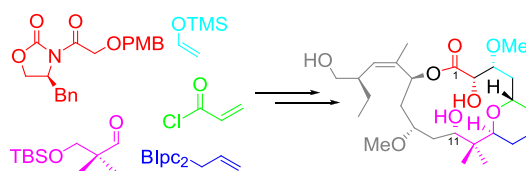
Bojana Srećo, Goran Benedeković, Mirjana Popsavin, Pavle Hadžić, Vesna Kojić, Gordana Bogdanović, Vladimir Divjaković, Velimir Popsavin*

**Fused pyrazino[2,3-*b*]indolizine and indolizino[2,3-*b*]quinoxaline derivatives; synthesis, structures, and properties** pp 9368–9375

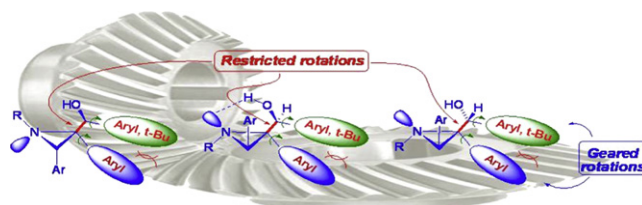
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**Towards a simplified peloruside A: synthesis of C1–C11 of a dihydropyran analogue** pp 9376–9381

Emma M. Casey, Febly Tho, Joanne E. Harvey, Paul H. Teesdale-Spittle*

**Restricted rotations and stereodynamics of aziridine-2-methanol derivatives** pp 9382–9388

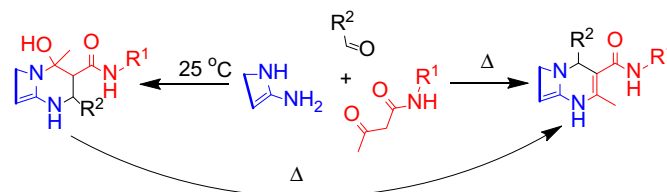
Maria Carolina de Ceglie, Leonardo Degennaro, Aurelia Falcicchio, Renzo Luisi*



Switchable selectivity in multicomponent heterocyclizations of acetoacetamides, aldehydes, and 3-amino-1,2,4-triazoles/5-aminopyrazoles

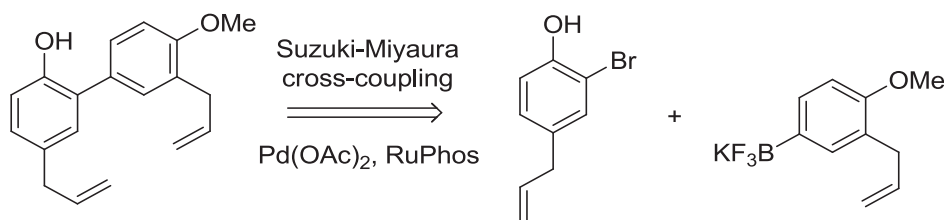
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Elena A. Muravyova, Sergey M. Desenko, Roman V. Rudenko, Svetlana V. Shishkina, Oleg V. Shishkin, Yulia V. Sen'ko, Elena V. Vashchenko, Valentin A. Chebanov*


Expedient synthesis of 4-O-methylhonokiol via Suzuki–Miyaura cross-coupling

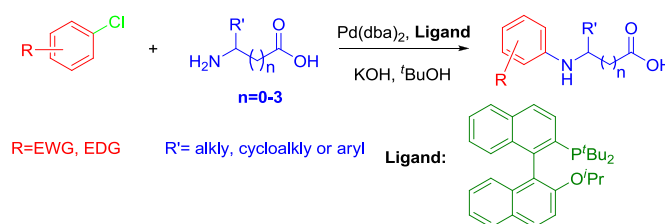
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Jae-Hwan Kwak, Young Ae Cho, Jae-Yong Jang, Seung-Yong Seo, Heesoon Lee, Jin Tae Hong, Sang-Bae Han, Kiho Lee, Young-Shin Kwak*, Jae-Kyung Jung*


Palladium-catalyzed coupling reaction of amino acids (esters) with aryl bromides and chlorides

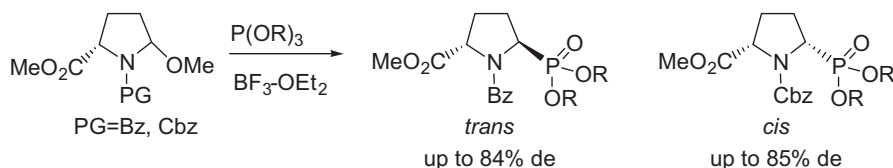
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Fangfang Ma, Xiaomin Xie*, Lina Ding, Jinsheng Gao, Zhaoguo Zhang*


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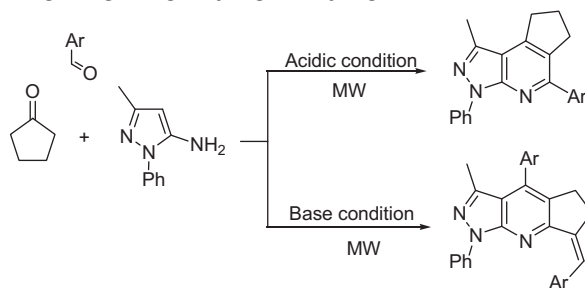
Shigeo Hirata, Masami Kuriyama, Osamu Onomura*



Microwave-assisted chemoselective reaction: a divergent synthesis of pyrazolopyridine derivatives with different substituted patterns

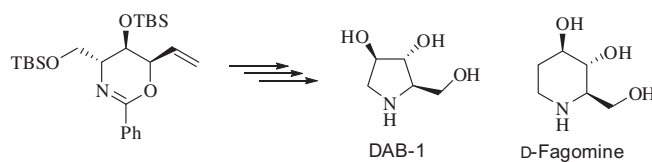
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Shu-Liang Wang, Yin-Ping Liu, Bi-Hui Xu, Xing-Hang Wang, Bo Jiang*, Shu-Jiang Tu*

**Efficient and stereoselective syntheses of DAB-1 and D-fagomine via chiral 1,3-oxazine**

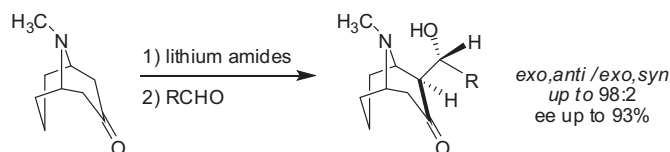
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Ji-Yeon Kim, Yu Mu, Xiangdan Jin, Seok-Hwi Park, Van-Thoi Pham, Dong-Keun Song, Kee-Young Lee, Won-Hun Ham*

**Diastereo- and enantioselective aldol reaction of granatanone (pseudopelletierine)**

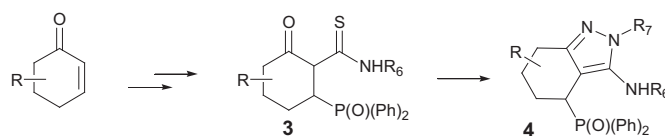
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Ryszard Lazny*, Karol Wolosewicz, Paulina Zielinska, Zofia Urbanczyk-Lipkowska, Przemyslaw Kalicki

**Efficient synthesis of 4-phosphinoyl-4,5,6,7-tetrahydro-2H-indazol-3-ylamines**

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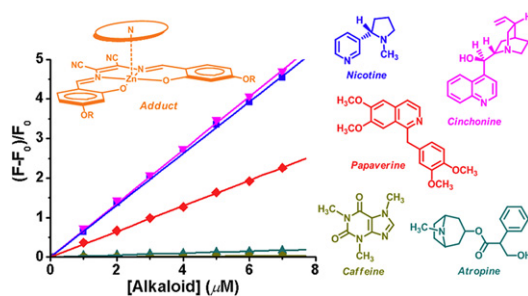
Nourchaine Jelaïel, Corinne Comoy, Brigitte Fernet, Mohamed Lofti Efrit*, Yves Fort*



Highly sensitive fluorescent probe for detection of alkaloids

pp 9446–9449

Ivan Pietro Oliveri, Santo Di Bella*



*Corresponding author

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ISSN 0040-4020